

APPENDICES

Appendix A

Special Status Species Database Search Results



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad< IS (Lakeview (3311771) OR Perris (3311772) OR Steele Peak (3311773) OR Sunnymead (3311782) OR El Casco (3311781) OR Riverside East (3311783) OR Lake Elsinore (3311763) OR Romoland (3311762) OR Winchester (3311761))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Abronia villosa</i> var. <i>aurita</i> chaparral sand-verbena	PDNYC010P1	None	None	G5T2?	S2	1B.1
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
<i>Allium marvinii</i> Yucaipa onion	PMLIL02330	None	None	G1	S1	1B.2
<i>Allium munzii</i> Munz's onion	PMLIL022Z0	Endangered	Threatened	G1	S1	1B.1
<i>Ambrosia pumila</i> San Diego ambrosia	PDAST0C0M0	Endangered	None	G1	S1	1B.1
<i>Anniella stebbinsi</i> Southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Arenaria paludicola</i> marsh sandwort	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
<i>Arizona elegans occidentalis</i> California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
<i>Artemisiospiza belli belli</i> Bell's sparrow	ABPBX97021	None	None	G5T2T3	S3	WL
<i>Asio otus</i> long-eared owl	ABNSB13010	None	None	G5	S3?	SSC
<i>Aspidoscelis hyperythra</i> orange-throated whiptail	ARACJ02060	None	None	G5	S2S3	WL
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
<i>Astragalus pachypus</i> var. <i>jaegeri</i> Jaeger's milk-vetch	PDFAB0F6G1	None	None	G4T1	S1	1B.1
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex coronata</i> var. <i>notatior</i> San Jacinto Valley crownscale	PDCHE040C2	Endangered	None	G4T1	S1	1B.1
<i>Atriplex parishii</i> Parish's brittle scale	PDCHE041D0	None	None	G1G2	S1	1B.1



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<i>Atriplex serenana</i> var. <i>davidsonii</i> Davidson's saltscall	PDCHE041T1	None	None	G5T1	S1	1B.2
<i>Berberis nevinii</i> Nevin's barberry	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G2	S2	
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
<i>Brodiaea filifolia</i> thread-leaved brodiaea	PMLIL0C050	Threatened	Endangered	G2	S2	1B.1
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<i>Calochortus plummerae</i> Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
<i>Calochortus weedii</i> var. <i>intermedius</i> intermediate mariposa-lily	PMLIL0D1J1	None	None	G3G4T3	S3	1B.2
<i>Campylorhynchus brunneicapillus sandiegensis</i> coastal cactus wren	ABPBG02095	None	None	G5T3Q	S2	SSC
<i>Caulanthus simulans</i> Payson's jewelflower	PDBRA0M0H0	None	None	G4	S4	4.2
<i>Centromadia pungens</i> ssp. <i>laevis</i> smooth tarplant	PDAST4R0R4	None	None	G3G4T2	S2	1B.1
<i>Ceratochrysis longimala</i> Desert cuckoo wasp	IIHYM71040	None	None	G1	S1	
<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>Charadrius nivosus nivosus</i> western snowy plover	ABNNB03031	Threatened	None	G3T3	S3	SSC
<i>Chloropyron maritimum</i> ssp. <i>maritimum</i> salt marsh bird's-beak	PDSCR0J0C2	Endangered	Endangered	G4?T1	S1	1B.2
<i>Chorizanthe parryi</i> var. <i>parryi</i> Parry's spineflower	PDPGN040J2	None	None	G3T2	S2	1B.1
<i>Chorizanthe polygonoides</i> var. <i>longispina</i> long-spined spineflower	PDPGN040K1	None	None	G5T3	S3	1B.2
<i>Cicindela senilis frosti</i> senile tiger beetle	IICOL02121	None	None	G2G3T1T3	S1	
<i>Circus hudsonius</i> northern harrier	ABNKC11011	None	None	G5	S3	SSC
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	



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<i>Coleonyx variegatus abbotti</i> San Diego banded gecko	ARACD01031	None	None	G5T5	S1S2	SSC
<i>Crotalus ruber</i> red-diamond rattlesnake	ARADE02090	None	None	G4	S3	SSC
<i>Diadophis punctatus modestus</i> San Bernardino ringneck snake	ARADB10015	None	None	G5T2T3	S2?	
<i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat	AMAFD03143	Endangered	Candidate Endangered	G5T1	S1	SSC
<i>Dipodomys stephensi</i> Stephens' kangaroo rat	AMAFD03100	Threatened	Threatened	G2	S2	
<i>Dodecahema leptoceras</i> slender-horned spineflower	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
<i>Dudleya multicaulis</i> many-stemmed dudleya	PDCRA040H0	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	G5T4Q	S4	WL
<i>Eugnosta busckana</i> Busck's gallmoth	IILEM2X090	None	None	G1G3	S2S3	
<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011	None	None	G4G5T4	S3S4	SSC
<i>Euphydryas editha quino</i> quino checkerspot butterfly	IILEPK405L	Endangered	None	G5T1T2	S1S2	
<i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
<i>Harpagonella palmeri</i> Palmer's grapplinghook	PDBOR0H010	None	None	G4	S3	4.2
<i>Icteria virens</i> yellow-breasted chat	ABPBX24010	None	None	G5	S3	SSC
<i>Lanius ludovicianus</i> loggerhead shrike	ABPBR01030	None	None	G4	S4	SSC
<i>Lasiurus xanthinus</i> western yellow bat	AMACC05070	None	None	G4G5	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	G3T1	S1	FP



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<i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
<i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit	AMAEB03051	None	None	G5T3T4	S3S4	
<i>Myosurus minimus</i> ssp. <i>apus</i> little mousetail	PDRAN0H031	None	None	G5T2Q	S2	3.1
<i>Nama stenocarpa</i> mud nama	PDHYD0A0H0	None	None	G4G5	S1S2	2B.2
<i>Navarretia fossalis</i> spreading navarretia	PDPLM0C080	Threatened	None	G2	S2	1B.1
<i>Neolarra alba</i> white cuckoo bee	IIHYM81010	None	None	GH	SH	
<i>Neotoma lepida intermedia</i> San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
<i>Nyctinomops femorosaccus</i> pocketed free-tailed bat	AMACD04010	None	None	G5	S3	SSC
<i>Onychomys torridus ramona</i> southern grasshopper mouse	AMAFF06022	None	None	G5T3	S3	SSC
<i>Orcuttia californica</i> California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
<i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse	AMAFD01041	None	None	G5T2	S1S2	SSC
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G3	S4	SSC
<i>Plegadis chihi</i> white-faced ibis	ABNGE02020	None	None	G5	S3S4	WL
<i>Polioptila californica californica</i> coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T3Q	S2	SSC
<i>Salvadora hexalepis virgultea</i> coast patch-nosed snake	ARADB30033	None	None	G5T4	S3	SSC
<i>Senecio aphanactis</i> chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
<i>Setophaga petechia</i> yellow warbler	ABPBX03010	None	None	G5	S3S4	SSC
<i>Sidalcea neomexicana</i> salt spring checkerbloom	PDMAL110J0	None	None	G4	S2	2B.2
<i>Socalchemmis icenoglei</i> Icenogle's socalchemmis spider	ILARAU7020	None	None	G1	S1	
<i>Southern Coast Live Oak Riparian Forest</i> Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
<i>Southern Cottonwood Willow Riparian Forest</i> Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	



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<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	G2G3	S3S4	SSC
<i>Spinus lawrencei</i> Lawrence's goldfinch	ABPBY06100	None	None	G3G4	S4	
<i>Streptocephalus woottoni</i> Riverside fairy shrimp	ICBRA07010	Endangered	None	G1G2	S2	
<i>Symphotrichum defoliatum</i> San Bernardino aster	PDASTE80C0	None	None	G2	S2	1B.2
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC
<i>Texosporium sancti-jacobi</i> woven-spored lichen	NLTEST7980	None	None	G3	S2	3
<i>Tortula californica</i> California screw moss	NBMUS7L090	None	None	G2G3	S2?	1B.2
<i>Trichocoronis wrightii</i> var. <i>wrightii</i> Wright's trichocoronis	PDAST9F031	None	None	G4T3	S1	2B.1
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
<i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010	None	None	G5	S3	SSC

Record Count: 94

Search Results

48 matches found. Click on scientific name for details

Search Criteria: 9-Quad include [3311771:3311772:3311773:3311782:3311781:3311783:3311763:3311762:3311761]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED	PHOTO
Abronia villosa var. aurita	chaparral sand-verbena	Nyctaginaceae	annual herb	(Jan)Mar-Sep	None	None	G5T2?	S2	1B.1		2001-01-01	 © 2011 Aaron E. Sims
Allium marvinii	Yucaipa onion	Alliaceae	perennial bulbiferous herb	Apr-May	None	None	G1	S1	1B.2	Yes	2001-01-01	 © 2013 Keir Morse
Allium munzii	Munz's onion	Alliaceae	perennial bulbiferous herb	Mar-May	FE	CT	G1	S1	1B.1	Yes	1980-01-01	 © 2003 Guy Bruyea
Ambrosia pumila	San Diego ambrosia	Asteraceae	perennial rhizomatous herb	Apr-Oct	FE	None	G1	S1	1B.1		1974-01-01	 © 2010 Benjamin Smith
Arctostaphylos rainbowensis	Rainbow manzanita	Ericaceae	perennial evergreen shrub	Dec-Mar	None	None	G2	S2	1B.1	Yes	1994-01-01	No Photo Available
Arenaria paludicola	marsh sandwort	Caryophyllaceae	perennial stoloniferous herb	May-Aug	FE	CE	G1	S1	1B.1		1984-01-01	No Photo Available
Artemisia palmeri	San Diego sagewort	Asteraceae	perennial deciduous shrub	(Feb)May-Sep	None	None	G3?	S3?	4.2		1974-01-01	No Photo Available
Astragalus pachypus var. jaegeri	Jaeger's milk-vetch	Fabaceae	perennial shrub	Dec-Jun	None	None	G4T1	S1	1B.1	Yes	1994-01-01	No Photo Available
Atriplex coronata var. notatior	San Jacinto Valley crownscale	Chenopodiaceae	annual herb	Apr-Aug	FE	None	G4T1	S1	1B.1	Yes	1988-01-01	 © 2008 Larry Sward
Atriplex parishii	Parish's brittlescale	Chenopodiaceae	annual herb	Jun-Oct	None	None	G1G2	S1	1B.1		1988-01-01	No Photo Available

<i>Atriplex serenana</i> <i>var. davidsonii</i>	Davidson's saltscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G5T1	S1	1B.2			1994-01-01	No Photo Available
<i>Berberis nevinii</i>	Nevin's barberry	Berberidaceae	perennial evergreen shrub	(Feb)Mar-Jun	FE	CE	G1	S1	1B.1	Yes		1980-01-01	No Photo Available
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	Themidaceae	perennial bulbiferous herb	Mar-Jun	FT	CE	G2	S2	1B.1	Yes		1974-01-01	 © 2016 Keir Morse
<i>Calochortus plummerae</i>	Plummer's mariposa-lily	Liliaceae	perennial bulbiferous herb	May-Jul	None	None	G4	S4	4.2	Yes		1994-01-01	No Photo Available
<i>Calochortus weedii</i> <i>var. intermedius</i>	intermediate mariposa-lily	Liliaceae	perennial bulbiferous herb	May-Jul	None	None	G3G4T3	S3	1B.2	Yes		1994-01-01	No Photo Available
<i>Carex buxbaumii</i>	Buxbaum's sedge	Cyperaceae	perennial rhizomatous herb	Mar-Aug	None	None	G5	S3	4.2			2001-01-01	 © 2008 Dean Wm. Taylor, Ph.D.
<i>Caulanthus simulans</i>	Payson's jewelflower	Brassicaceae	annual herb	(Feb)Mar-May(Jun)	None	None	G4	S4	4.2	Yes		1974-01-01	No Photo Available
<i>Centromadia pungens</i> ssp. <i>laevis</i>	smooth tarplant	Asteraceae	annual herb	Apr-Sep	None	None	G3G4T2	S2	1B.1	Yes		1994-01-01	No Photo Available
<i>Chloropyron maritimum</i> ssp. <i>maritimum</i>	salt marsh bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct(Nov)	FE	CE	G4?T1	S1	1B.2			1974-01-01	No Photo Available
<i>Chorizanthe leptotheca</i>	Peninsular spineflower	Polygonaceae	annual herb	May-Aug	None	None	G3	S3	4.2			1994-01-01	No Photo Available
<i>Chorizanthe parryi</i> <i>var. parryi</i>	Parry's spineflower	Polygonaceae	annual herb	Apr-Jun	None	None	G3T2	S2	1B.1	Yes		1994-01-01	No Photo Available
<i>Chorizanthe polygonoides</i> var. <i>longispina</i>	long-spined spineflower	Polygonaceae	annual herb	Apr-Jul	None	None	G5T3	S3	1B.2			1994-01-01	No Photo Available
<i>Chorizanthe xanti</i> <i>var. leucotheca</i>	white-bracted spineflower	Polygonaceae	annual herb	Apr-Jun	None	None	G4T3	S3	1B.2	Yes		1994-01-01	No Photo Available
<i>Convolvulus simulans</i>	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	None	None	G4	S4	4.2			1994-01-01	No Photo Available
<i>Deinandra paniculata</i>	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr-Nov	None	None	G4	S4	4.2			2001-01-01	No Photo Available

<u><i>Diplacus clevelandii</i></u>	Cleveland's bush monkeyflower	Phrymaceae	perennial rhizomatous herb	Apr-Jul	None	None	G4	S4	4.2		1980-01-01	 © 2020 W. Juergen Schrenk
<u><i>Dodecahema leptoceras</i></u>	slender-horned spineflower	Polygonaceae	annual herb	Apr-Jun	FE	CE	G1	S1	1B.1	Yes	1980-01-01	No Photo Available
<u><i>Dudleya multicaulis</i></u>	many-stemmed dudleya	Crassulaceae	perennial herb	Apr-Jul	None	None	G2	S2	1B.2	Yes	1974-01-01	No Photo Available
<u><i>Harpagonella palmeri</i></u>	Palmer's grapplinghook	Boraginaceae	annual herb	Mar-May	None	None	G4	S3	4.2		1980-01-01	 © 2015 Keir Morse
<u><i>Hordeum intercedens</i></u>	vernal barley	Poaceae	annual herb	Mar-Jun	None	None	G3G4	S3S4	3.2		1994-01-01	No Photo Available
<u><i>Juglans californica</i></u>	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	None	None	G4	S4	4.2	Yes	1994-01-01	 © 2020 Zoya Akulova
<u><i>Lasthenia glabrata</i> ssp. <i>coulteri</i></u>	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	None	None	G4T2	S2	1B.1		1994-01-01	 © 2013 Keir Morse
<u><i>Lepidium virginicum</i> var. <i>robinsonii</i></u>	Robinson's pepper-grass	Brassicaceae	annual herb	Jan-Jul	None	None	G5T3	S3	4.3		1994-01-01	 © 2015 Keir Morse
<u><i>Microseris douglasii</i> ssp. <i>platycarpa</i></u>	small-flowered microseris	Asteraceae	annual herb	Mar-May	None	None	G4T4	S4	4.2		2001-01-01	 © 2015 Richard Spellenberg
<u><i>Myosurus minimus</i> ssp. <i>apus</i></u>	little mousetail	Ranunculaceae	annual herb	Mar-Jun	None	None	G5T2Q	S2	3.1		1980-01-01	No Photo Available
<u><i>Nama stenocarpa</i></u>	mud nama	Namaceae	annual/perennial herb	Jan-Jul	None	None	G4G5	S1S2	2B.2		1994-01-01	No Photo Available
<u><i>Navarretia fossalis</i></u>	spreading navarretia	Polemoniaceae	annual herb	Apr-Jun	FT	None	G2	S2	1B.1		1980-01-01	No Photo Available
<u><i>Orcuttia californica</i></u>	California Orcutt grass	Poaceae	annual herb	Apr-Aug	FE	CE	G1	S1	1B.1		1974-01-01	No Photo Available
<u><i>Phacelia stellaris</i></u>	Brand's star phacelia	Hydrophyllaceae	annual herb	Mar-Jun	None	None	G1	S1	1B.1		1994-01-01	No Photo Available

<u><i>Quercus engelmannii</i></u>	Engelmann oak	Fagaceae	perennial deciduous tree	Mar-Jun	None	None	G3	S3	4.2			1988-01-01	No Photo Available
<u><i>Romneya coulteri</i></u>	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	Mar-Jul(Aug)	None	None	G4	S4	4.2			1974-01-01	No Photo Available
<u><i>Senecio aphanactis</i></u>	chaparral ragwort	Asteraceae	annual herb	Jan-Apr(May)	None	None	G3	S2	2B.2			1994-01-01	No Photo Available
<u><i>Sidalcea neomexicana</i></u>	salt spring checkerbloom	Malvaceae	perennial herb	Mar-Jun	None	None	G4	S2	2B.2			1994-01-01	No Photo Available
<u><i>Symphyotrichum defoliatum</i></u>	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul-Nov	None	None	G2	S2	1B.2	Yes		2004-01-01	No Photo Available
<u><i>Texosporium sancti-jacobi</i></u>	woven-spored lichen	Caliciaceae	crustose lichen (terricolous)		None	None	G3	S2	3			2014-03-01	 ©2021 Scot Loring
<u><i>Tortula californica</i></u>	California screw moss	Pottiaceae	moss		None	None	G2G3	S2?	1B.2	Yes		2001-01-01	No Photo Available
<u><i>Trichocoronis wrightii</i> var. <i>wrightii</i></u>	Wright's trichocoronis	Asteraceae	annual herb	May-Sep	None	None	G4T3	S1	2B.1			1988-01-01	No Photo Available
<u><i>Viguiera laciniata</i></u>	San Diego County viguiera	Asteraceae	perennial shrub	Feb-Jun(Aug)	None	None	G4	S4	4.3			1974-01-01	No Photo Available

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Suggested Citation:

California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website <https://www.rareplants.cnps.org> [accessed 30 March 2023].

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

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 [Ecological Services Program](#) 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 [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), 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
San Bernardino Merriam's Kangaroo Rat <i>Dipodomys merriami</i> parvus Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2060	Endangered
Stephens' Kangaroo Rat <i>Dipodomys stephensi</i> (incl. <i>D. cactus</i>) Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/3495	Threatened

Birds

NAME	STATUS
Coastal California Gnatcatcher <i>Poliophtila californica californica</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8178	Threatened
Least Bell's Vireo <i>Vireo bellii pusillus</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/5945	Endangered
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6749	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Quino Checkerspot Butterfly	<i>Euphydryas editha quino</i> (=E. e. wrighti)	Endangered
Wherever found		
There is final critical habitat for this species. Your location does not overlap the critical habitat.		
https://ecos.fws.gov/ecp/species/5900		

Crustaceans

NAME	STATUS
Riverside Fairy Shrimp	Endangered
<i>Streptocephalus woottoni</i>	
Wherever found	
There is final critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/8148	
Vernal Pool Fairy Shrimp	Threatened
<i>Branchinecta lynchi</i>	
Wherever found	
There is final critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/498	

Flowering Plants

NAME	STATUS
Munz's Onion	Endangered
<i>Allium munzii</i>	
Wherever found	
There is final critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/2951	
San Diego Ambrosia	Endangered
<i>Ambrosia pumila</i>	
Wherever found	
There is final critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/8287	
San Jacinto Valley Crownscale	Endangered
<i>Atriplex coronata</i> var. <i>notatior</i>	
Wherever found	
There is final critical habitat for this species. However, no <i>actual</i> acres or miles were designated due to exemptions or exclusions. See Federal Register publication for details.	
https://ecos.fws.gov/ecp/species/4353	

Spreading Navarretia Navarretia fossalis

Threatened

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

<https://ecos.fws.gov/ecp/species/1334>

Thread-leaved Brodiaea Brodiaea filifolia

Threatened

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

<https://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.

You are still required to determine if your project(s) may have effects on all above listed species.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

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 <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (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 below](#). 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 [E-bird data mapping tool](#) (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 [below](#).

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
Allen's Hummingbird <i>Selasphorus sasin</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637	Breeds Feb 1 to Jul 15
Belding's Savannah Sparrow <i>Passerculus sandwichensis beldingi</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8	Breeds Apr 1 to Aug 15
Bullock's Oriole <i>Icterus bullockii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull <i>Larus californicus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
California Thrasher <i>Toxostoma redivivum</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Jul 31
Common Yellowthroat <i>Geothlypis trichas sinuosa</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084	Breeds May 20 to Jul 31

Golden Eagle *Aquila chrysaetos*

Breeds Jan 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1680>

Lawrence's Goldfinch *Carduelis lawrencei*

Breeds Mar 20 to Sep 20

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

<https://ecos.fws.gov/ecp/species/9464>

Nuttall's Woodpecker *Picoides nuttallii*

Breeds Apr 1 to Jul 20

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/9410>

Western Grebe *aechmophorus occidentalis*

Breeds Jun 1 to Aug 31

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

<https://ecos.fws.gov/ecp/species/6743>

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.

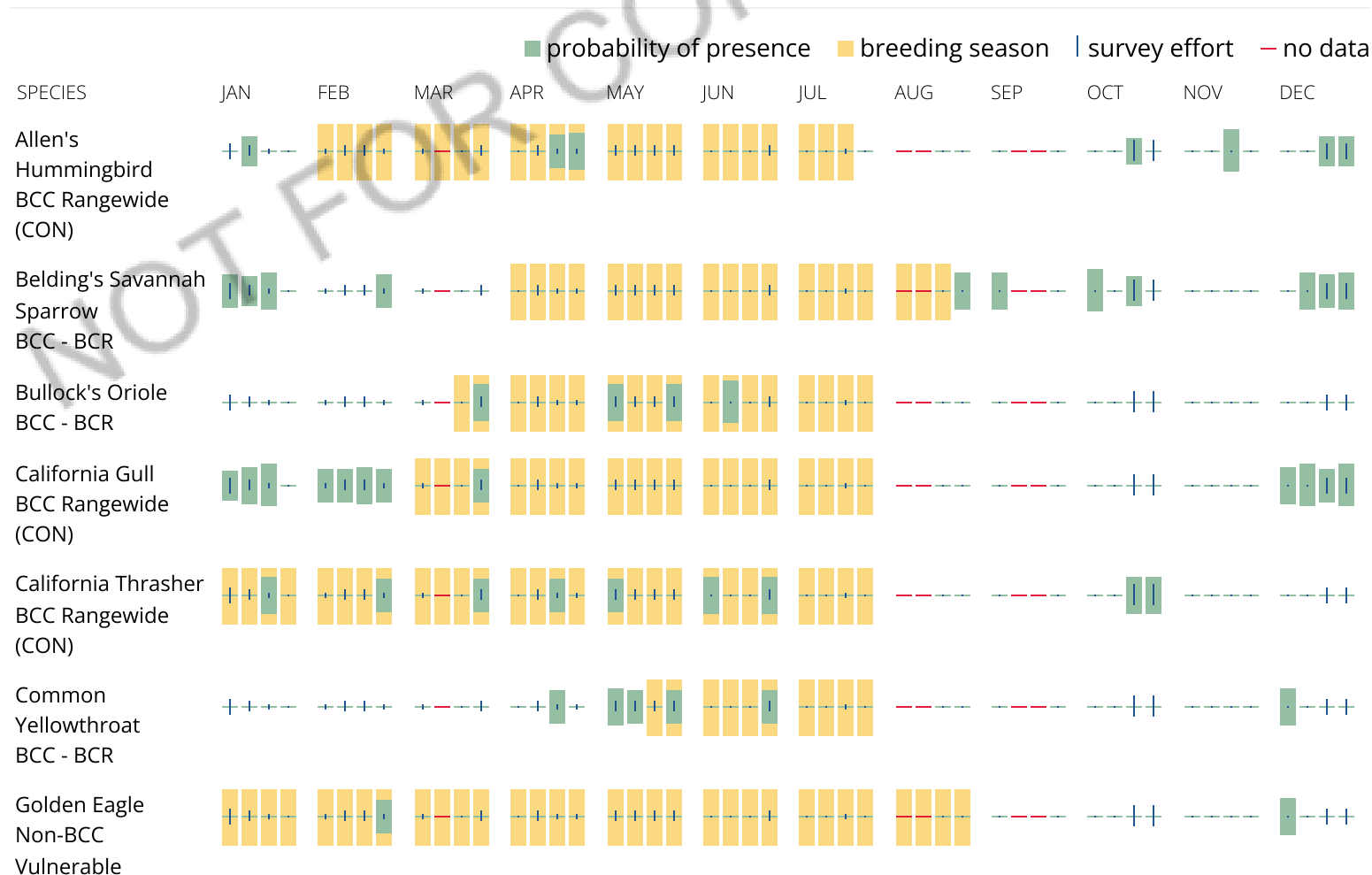
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

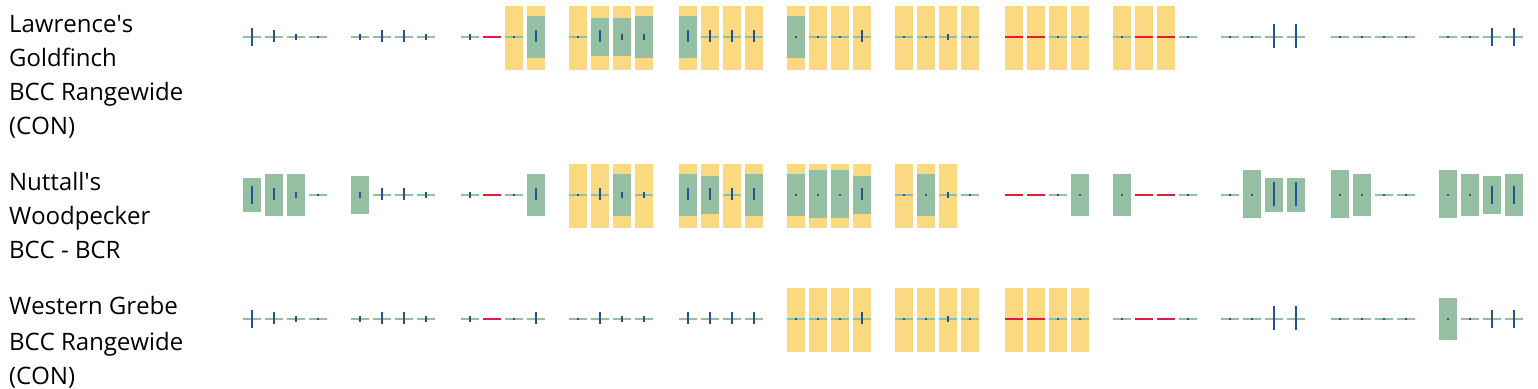
No Data (—)

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 list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) 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 [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) 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 ([Eagle Act](#) 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 [Rapid Avian Information Locator \(RAIL\) Tool](#).

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 [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

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 or migrating in my 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 query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. 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 [Birds of Conservation Concern](#) (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 [Eagle Act](#) 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 [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) 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 [National Wildlife Refuge](#) 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 (NWI)

Impacts to [NWI wetlands](#) 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.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

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.

Appendix B
Special-Status Plant Species with Potential to Occur at the Project Area

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
DICOTS							
Chaparral sand-verbena <i>Abronia villosa</i> var. <i>aurita</i>	--	--	1B.1	Chaparral, Coastal scrub, Desert dunes; Sandy	75-1,600 m; Annual herb; Blooms from (Jan) March to September	Not Expected. Habitats present at the project site would not support this species. The vegetation and soil types that could support this species are not present at the project site.	None.
San Diego ambrosia <i>Ambrosia pumila</i>	FE	--	1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools; Alkaline (sometimes), Clay (sometimes), Disturbed areas (often), Sandy (sometimes)	20-415 m; Perennial rhizomatous herb; Blooms from April to October	Not Expected. Habitats present at the project site would not support this species. This plant is typically found in or adjacent to wetlands or floodplains, and the site is isolated from such mesic areas.	None.
Rainbow manzanita <i>Arctostaphylos rainbowensis</i>	--	--	1B.1	Chaparral	205-670 m; Perennial evergreen shrub; Blooms from December to March	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
Marsh sandwort <i>Arenaria paludicola</i>	FE	SE	1B.1	Marshes and swamps; Openings, Sandy	3-170 m; Perennial stoloniferous herb; Blooms May to August	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic or sandy enough to support this species.	None.
San Diego sagewort <i>Artemisia palmeri</i>	--	--	4.2	Chaparral, Coastal scrub, Riparian Forest, Riparian scrub, Riparian woodland; Mesic, Sandy	5-915 m; Perennial deciduous shrub Blooms from (February) May to September	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this	None.

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
						species.	
Jaeger's milk-vetch <i>Astragalus pachypus</i> var. <i>jaegeri</i>	--	--	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; Rocky (sometimes), Sandy (sometimes)	365-975 m; Perennial shrub; Blooms from December to June	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and due to years of agricultural use would unlikely support this species.	None.
San Jacinto Valley crownscale <i>Atriplex coronata</i> var. <i>notatior</i>	FE	--	1B.1	Playas, Valley and foothill grassland (mesic), Vernal pools; Alkaline	139-500 m; Annual herb; April to August	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
Parish's brittlescale <i>Atriplex parishii</i>	--	--	1B.1	Chenopod scrub, Playas, Vernal pools; Alkaline	25-1,900 m; Annual herb; Blooms from June to October	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
Davidson's saltscale <i>Atriplex serenana</i> var. <i>davidsonii</i>	--	--	1B.2	Coastal bluff scrub, Coastal scrub; Alkaline	10-200 m ; Annual herb; Blooms from April to October	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
San Diego County viguiera <i>Bahiopsis laciniata</i> (= <i>Viguiera laciniata</i>)	--	--	4.3	Chaparral, Coastal scrub	60-750 m; Perennial shrub; Blooms from February to June (August)	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and historically the vegetation associations present at the site have not been observed to be chaparral, coastal sage scrub, or similar.	None.
Nevin's barberry	FE	SE	1B.1	Chaparral,	70-825 m; Shrub;	Not Expected. Habitats present	None.

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
<i>Berberis nevini</i>				Cismontane woodland, Coastal scrub, Riparian scrub; Gravelly (sometimes), Sandy (sometimes)	Blooms March to June	at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	
Payson's jewelflower <i>Caulanthus simulans</i>	--	--	4.2	Chaparral, Coastal scrub; Granitic, Sandy	90-2,200 m; Annual herb; Blooms from (February) March to May (June)	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
Smooth tarplant <i>Centromadia pungens</i> ssp. <i>laevis</i>	--	--	1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland; Alkaline	0-640 m; Annual herb; Blooms April to September	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and due to years of agricultural use would unlikely support this species.	None.
Salt marsh bird's beak <i>Chloropyron maritimum</i> ssp. <i>maritimum</i>	FE	SE	1B.2	Coastal dunes, Marshes and swamps	0-30 m; Annual herb; Blooms from May to Nov.	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species. No coastal dunes, marshes, or swamps are located at the project site.	None.
Peninsular spineflower <i>Chorizanthe leptotheca</i>	--	--	4.2	Chaparral, Coastal scrub, Lower montane coniferous forest; Granitic	300-1,900 m; Annual herb; Blooms from May-Aug	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this	None.

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
						species.	
Parry's spineflower <i>Chorizanthe parryi</i> var. <i>parryi</i>	--	--	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; Openings, Rocky (sometimes), Sandy (sometimes)	225-1,220 m; Annual herb; Blooms April to June	Not Expected. Habitats present at the project site would not support this species. The Project site does not have sufficiently sandy/rocky granitic soils to support this species.	None.
Long-spined spineflower <i>Chorizanthe polygonoides</i> var. <i>longispina</i>	--	--	1B.2	Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; Clay (often)	30-1,530 m; Annual herb; Blooms from April to July	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
White-bracted spineflower <i>Chorizanthe xanti</i> var. <i>leucotheca</i>	--	--	1B.2	Coastal scrub, Mojavean desert scrub, Pinyon and juniper woodland; Gravelly (sometimes), Sandy (sometimes)	300-1,200 m; Annual herb; Blooms from April to June	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and due to years of agricultural use would unlikely support this species.	None.
Small-flowered morning-glory <i>Convolvulus simulans</i>	--	--	4.2	Chaparral (openings), Coastal scrub, Valley and foothill grassland; Clay, Seeps, Serpentine	30-740m; Annual herb; Blooms from March to July	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough or contain serpentine soils that could support this species.	None.
Paniculate tarplant <i>Deinandra paniculata</i>	--	--	4.2	Coastal scrub, Valley and foothill grassland, Vernal pools; Sandy (sometimes), Vernal Mesic (usually)	25-940 m; Annual herb; Blooms from (Mar) April to November	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species. No vernal pools are present at the project site.	None

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
Cleveland's bush monkeyflower <i>Diplacus clevelandii</i>	--	--	4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest; Disturbed areas (often), Gabbroic, Openings, Rocky	450-2,000 m; Perennial rhizomatous herb; April to July	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
Slender-horned spineflower <i>Dodecahema leptoceras</i>	FE	SE	1B.1	Chaparral, Cismontane woodland, Coastal scrub; Sandy	200-760 m; Annual herb; Blooms April to June	Not Expected. Habitats present at the project site would not support this species. Soils at the site are not sufficiently sandy and are too disturbed to support this species.	None.
Many-stemmed dudleya <i>Dudleya multicaulis</i>	--	--	1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Clay (often)	15-790 m; Perennial herb; Blooms from April to July	Not Expected. Habitats present at the project site would not support this species. Clay soils that could support this species are not present at the project site and the soils at the project site are too disturbed to support this species.	None.
<i>Harpagonella palmeri</i> Palmer's grapplinghook	--	--	4.2	Chaparral, Coastal scrub, Valley and foothill grassland; Clay, Openings	20-955 m; Annual herb; Blooms from March to May	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and due to years of agricultural use would unlikely support this species.	None.
Southern California black walnut <i>Juglans californica</i>	--	--	4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	50-900 m; Perennial deciduous tree; Blooms from March to August	Not Expected. Habitats present at the project site would not support this species. The mesic conditions, vegetation, and soil types that could support this species are not present at the project site.	None.

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
Coulter's goldfields <i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	--	--	1B.1	Marshes and swamps, Playas, Vernal pools	1-1,220 m; Annual herb; Blooms from February to June	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species. No vernal pools, marshes, swamps, or playas are present at the project site.	None
Robinson's pepper-grass <i>Lepidium virginicum</i> var. <i>robinsonii</i>	--	--	4.3	Chaparral, Coastal scrub	1-885 m; Annual herb; Blooms January to July	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
Small-flowered microseris <i>Microseris douglasii</i> ssp. <i>platycarpa</i>	--	--	4.2	Cismontane woodland, Coastal scrub, Valley and foothill grassland, Vernal pools; Clay	15-1,070 m; Annual herb; Blooms from March to May	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic or enough to support this species.	None.
Little mousetail <i>Myosurus minimus</i> ssp. <i>apus</i>	--	--	3.1	Valley and foothill grassland, Vernal pools (alkaline)	20-640 m; Annual herb; Blooms from March to June	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
Mud nama <i>Nama stenocarpa</i>	--	--	2B.2	Marshes and swamps (lake margins, riverbanks)	5-500 m; Annual to perennial herb; Blooms from January to July	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
Spreading navarretia <i>Navarretia fossalis</i>	FT	--	1B.1	Chenopod scrub, Marshes and swamps (shallow freshwater), Playas, Vernal pools	30-655 m; Annual herb; Blooms from April to June	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
Brand's star phacelia <i>Phacelia stellaris</i>	--	--	1B.1	Coastal dunes, Coastal scrub	1-400 m; Annual herb; Blooms from March to June	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
Engelmann oak <i>Quercus engelmannii</i>	--	--	4.2	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland	50-1,300m; Perennial deciduous tree; Blooms from March to June	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and due to years of agricultural use would unlikely support this species.	None.
Coulter's matilija poppy <i>Romneya coulteri</i>	--	--	4.2	Chaparral, Coastal scrub; Burned areas (often)	20-1,200 m; Perennial rhizomatous herb; Blooms from March to July (August)	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
Chaparral ragwort <i>Senecio aphanactis</i>	--	--	2B.2	Chaparral, cismontane woodland, coastal scrub; alkaline (sometimes).	15-800 m; Annual herb; Blooms January to April (May)	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
Salt Spring checkerbloom <i>Sidalcea neomexicana</i>	--	--	2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas; Alkaline, Mesic	15-1,530; Perennial herb; Blooms March to June	Not Expected. Habitats present at the project site would not support this species. Alkaline and mesic soils that could support this species are not present at the project site.	None.

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
San Bernardino aster <i>Symphyotrichum defoliatum</i>	--	--	1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, Meadows and seeps, Valley and foothill grassland; Streambanks	2-2,040 m; Perennial herb; Blooms July to November	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
Wright's trichocoronis <i>Trichocoronis wrightii</i> var. <i>wrightii</i>	--	--	2B.1	Marshes and swamps, Meadows and seeps, Riparian forest, Vernal pools; Alkaline	5-435 m; Annual herb; Blooms from May to September	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
MONOCOTS							
Yucaipa onion <i>Allium marvinii</i>	--	--	1B.2	Chaparral (clay, openings)	760-1,065 m; Perennial bulbiferous herb; April to May	Not Expected. Habitats present at the project site would not support this species. The project site is outside of the known elevation range of this species.	None.
Munz's onion <i>Allium munzii</i>	FE	ST	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Pinyon and juniper woodland, Valley and foothill grassland; Clay, Mesic	297-1,070 m; Perennial bulbiferous herb; Blooms from March to May	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
Thread-leaved brodiaea <i>Brodiaea filifolia</i>	FT	SE	1B.1	Chaparral (openings), Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools; Clay (often)	25-1,120 m; Perennial bulbiferous herb; Blooms from March to June	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
Plummer's mariposa lily <i>Calochortus plummerae</i>	--	--	4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; Granitic, Rocky	100-1700 m; Perennial bulbiferous herb; Blooms from May to July	Not Expected. Habitats present at the project site would not support this species. Vegetation associations that this species requires are not present, soils are too disturbed to support this species.	None.
Intermediate mariposa-lily <i>Calochortus weedii</i> var. <i>intermedius</i>	--	--	1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Rocky	105-855 m; Perennial bulbiferous herb; Blooms May to July	Not Expected. Habitats present at the project site would not support this species. Vegetation associations that this species requires are not present, soils are too disturbed to support this species.	None.
Buxbaum's sedge <i>Carex buxbaumii</i>	--	--	4.2	Bogs and fens, Marshes and swamps, Meadows and seeps (mesic)	3-3,300 m; Perennial rhizomatous herb; Blooms from March to August	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
Vernal barley <i>Hordeum intercedens</i>	--	--	3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland (depressions, saline flats), Vernal pools	5-1,000 m; Annual herb; Blooms from March to June	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
California Orcutt grass <i>Orcuttia californica</i>	FE	SE	1B.1	Vernal pools	15-660 m; Annual herb; Blooms from April to August	Not Expected. Habitats present at the project site would not support this species. The project site is not sufficiently mesic enough to support this species.	None.
LICHEN							

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Species	Status ^{1, 2}			General Habitat and Micro Habitat Requirements ¹	Elevation Range; Life Form; Blooming Period ²	Discussion ³	Recommendations
	Federal	State	CNPS CRPR				
Woven-spored lichen <i>Texosporium sancti-jacobi</i>	--	--	3	Chaparral (openings); On soil, small mammal pellets, dead twigs, and on <i>Selaginella</i> spp.	60-660 m; Crustose lichen (terricolous)	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and, historically, the vegetation associations present at the site are not those that support this species.	None.
MOSS							
California screw moss <i>Tortula californica</i>	--	--	1B.2	Chenopod scrub, Valley and foothill grassland; Sandy	10-1,460 m; moss	Not Expected. Habitats present at the project site would not support this species. The soils at the project site have been disced and due to years of agricultural use would unlikely support this species.	None.
PLANT COMMUNITIES							
Southern Coast Live Oak Riparian Forest						This plant community is not present on the Project Site.	None.
Southern Cottonwood Willow Riparian Forest						This plant community is not present on the Project Site.	None.
Southern Riparian Forest						This plant community is not present on the Project Site.	None.
Southern Sycamore Alder Riparian Woodland						This plant community is not present on the Project Site.	None.

NOTES:

¹ Excerpted from CDFW CNDDDB (2023)

² Excerpted from CNPS (2023a)

³ The potential for occurrence is based on occurrences recorded in the CDFW CNDDDB (2022) and CNPS (2022), knowledge of species requirements, and site inspections during 2023 field survey

STATUS KEY:

Appendix B: Special Status Plant Species with Potential to Occur at the Project Area.

Federal

FE: Federally-listed Endangered

FT: Federally-listed Threatened

FD: Federally-delisted

State

SE: California-listed Endangered

ST: California-listed Threatened

California Native Plant Society (CNPS): CNPS has developed five categories of rarity known as the California Rare Plant Ranking (CRPR). CRPR designations are defined as follows:

CBR: Considered but Rejected

1A: Presumed extinct in California

1B: Plants listed as rare, threatened, or endangered in California and elsewhere

2B: Plants rare, threatened, or endangered in California, but more common elsewhere

3: Plants about which we need more information

4: Species of limited distribution in California, but whose existence does not appear to be susceptible to threat

CNPS also adds a decimal threat rank to the List rank to parallel that used by the CNDDDB. CNPS rank designations therefore appear as: 1B.1, 1B.2, etc. Threat code extensions are defined as follows:

.1 – Seriously endangered in California (over 80% of occurrences threatened / high degree of 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)

Appendix C

Special-Status Wildlife Species with Potential to Occur at the Project Area

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
INVERTEBRATES					
Crotch bumble bee <i>Bombus crotchii</i>	--	SC	Various.	Not Expected. This species is generally found in native habitats, and the site is too disturbed to support this species due to the lack of abundant food plants.	None.
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	FT	--	Valley & foothill grassland Vernal pool Wetland	Not Expected. No vernally mesic habitats that would support this species are within or adjacent to the Project Area.	None.
Desert cuckoo wasp <i>Ceratochrysis longimala</i>	--	--	Various; sandy	Not Expected. No sufficiently sandy soils habitats that would support this species are within or adjacent to the Project Area. This species is believed to be extirpated from the general area and was not observed during the visit.	None.
Senile tiger beetle <i>Cicindela senilis frosti</i>	--	--	Mud shore/flats Wetland	Not Expected. No riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Busck's gallmoth <i>Eugnosta busckana</i>	--	--	Coastal dunes Coastal scrub	Not Expected. No coastal scrub/dune habitats that would support this species are within or adjacent to the Project Area.	None.
Quino checkerspot butterfly <i>Euphydryas editha quino</i>	FE	--	Chaparral Coastal scrub	Not Expected. No food plants typically that would support this species are within or adjacent to the Project Area. Due to the levels of previous ground disturbance soils on site would not expect to support sufficient growth of <i>Plantago</i> , <i>Orthocarpus</i> , or other food plants that support this species.	None.

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
White cuckoo bee <i>Neolarra alba</i>	--	--	Sandy soils; parasitic in the nests of perdita bees	Not Expected. Soils and vegetation at the Project Area are too disturbed to support this species. This species may be extirpated from the general area surrounding the project. Nearby occurrences are from the 1940s and significant development has occurred within and around the general area. No white cuckoo bees were observed during the survey.	None.
Icenogle's socalchemmis spider <i>Socalchemmis icenoglei</i>	--	--	Coastal Scrub; only known from Winchester area	Not Expected. Soils and vegetation at the Project Area are too disturbed to support this species. Historically this site has been used for agriculture, but likely didn't possess coastal scrub vegetation based on the location of the project.	None.
Riverside fairy shrimp <i>Streptocephalus woottoni</i>	FE	--	Coastal scrub Valley & foothill grassland Vernal pool Wetland	Not Expected. No vernal mesic habitats that would support this species are within or adjacent to the Project Area.	None.
AMPHIBIANS					
Western spadefoot <i>Spea hammondi</i>	--	CSC	Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland	Not Expected. No mesic habitats that would support amphibians are within or adjacent to the Project Area.	None.
REPTILES					
Southern California legless lizard <i>Anniella stebbinsi</i>	--	CSC	Broadleaved upland forest Chaparral Coastal dunes Coastal scrub	Not Expected. Sandy soils and native vegetation types that would be needed to support this species are not present on-site.	None.
California glossy snake <i>Arizona elegans occidentalis</i>	--	CSC	Various scrub and grassland habitats, gen. sandy soils	Not Expected. Sandy soils and native vegetation types that would be needed to support this species are not present on-site.	None.

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
Orange-throated whiptail <i>Aspidoscelis hyperythra</i>	--	WL	Chaparral Cismontane woodland Coastal scrub	Not Expected. Sandy soils and native vegetation types that would be needed to support this species are not present on-site.	None.
Coastal whiptail <i>Aspidoscelis tigris stejnegeri</i>	--	CSC	Various	Not Expected. Sandy soils and native vegetation types that would be needed to support this species are not present on-site.	None.
San Diego banded gecko <i>Coleonyx variegatus abbotti</i>	--	CSC	Chaparral Coastal scrub	Not Expected. Sandy soils and native vegetation types that would be needed to support this species are not present on-site.	None.
Red-diamond rattlesnake <i>Crotalus ruber</i>	--	CSC	Chaparral Mojavean desert scrub Sonoran desert scrub	Not Expected. Sandy soils and native vegetation types that would be needed to support this species are not present on-site.	None.
San Bernardino ringneck snake <i>Diadophis punctatus modestus</i>	--	--	Various, generally rocky and open	Not Expected. Rocky soils and native vegetation types that would be needed to support this species are not present on-site.	None.
Western pond turtle <i>Emys marmorata</i>	--	CSC	Aquatic Artificial flowing waters Klamath/North coast flowing waters Klamath/North coast standing waters Marsh & swamp Sacramento/San Joaquin flowing waters Sacramento/San Joaquin standing waters South coast flowing waters South coast standing waters Wetland	Not Expected. No mesic habitats that would support this species are within or adjacent to the Project Area.	None.
Coast horned lizard <i>Phrynosoma blainvillii</i>	--	CSC	Chaparral Cismontane woodland Coastal bluff scrub Coastal scrub Desert wash Pinon & juniper woodlands Riparian scrub Riparian woodland Valley & foothill grassland	Not Expected. Soil and vegetation at the Project Area are too disturbed to support this species. Historically this site has been used for agriculture and would not likely support this species.	None.
Coast patch-nosed snake <i>Salvadora hexalepis virgultea</i>	--	CSC	Coastal scrub	Not Expected. Soil and vegetation at the Project Area are too disturbed to support this species. Historically this site has been used for agriculture and would not likely support this species.	None.

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
BIRDS					
Cooper's hawk <i>Accipiter cooperii</i>	--	WL	Cismontane woodland Riparian forest Riparian woodland Upper montane coniferous forest	Potentially Present. This species is known to occupy urban developed habitats. Fences, staged vehicles, and other features of adjacent buildings may provide nesting or roosting opportunities for this species.	See measure BIO-1, which includes pre-construction survey and nest avoidance measures.
Tricolored blackbird <i>Agelaius tricolor</i>	--	CSC	Freshwater marsh Marsh & swamp Swamp Wetland	Not Expected. No mesic habitats that would support this species are within or adjacent to the Project Area.	None.
Southern California rufous-crowned sparrow <i>Aimophila ruficeps canescens</i>	--	WL	Chaparral Coastal scrub	Not Expected. No coastal sage scrub, chaparral, or hilly habitats that would support this species are within or adjacent to the Project Area.	None.
Golden eagle <i>Aquila chrysaetos</i>	--	FP, WL	Broadleaved upland forest Cismontane woodland Coastal prairie Great Basin grassland Great Basin scrub Lower montane coniferous forest Pinon & juniper woodlands Upper montane coniferous forest Valley & foothill grassland	Not Expected. No cliffs or steep areas that would provide suitable nesting habitat for this species are present on the Project Area.	None.
Bell's sage sparrow <i>Artemisiospiza belli belli</i>	--	WL	Chaparral Coastal scrub	Not Expected. No coastal sage scrub, chaparral, or similarly dense vegetation associations that would support this species are present on the Project Area.	None.
Long-eared owl <i>Asio otus</i>	--	CSC	Cismontane woodland Great Basin scrub Riparian Forest Riparian woodland Upper montane coniferous forest	Not Expected. No mesic habitats that would support this species are within or adjacent to the Project Area.	None.

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
Burrowing owl <i>Athene cunicularia</i>	--	CSC	Coastal prairie Coastal scrub Great Basin grassland Great Basin scrub Mojavean desert scrub Sonoran Desert scrub Valley & foothill grassland	Potentially Present. This species is known to occupy urban developed habitats. While no burrows were detectable due to recent discing, easily friable soils are present at the Project Area that burrowing owls could establish in existing relict burrows.	See measure BIO-2 2, which includes pre-construction survey and nest avoidance measures.
Swainson's hawk <i>Buteo swainsoni</i>	--	ST	Great Basin grassland Riparian forest Riparian woodland Valley & foothill grassland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Ferruginous hawk <i>Buteo regalis</i>	--	WL	Great Basin grassland Great Basin scrub Pinon & juniper woodlands Valley & foothill grassland	Not Expected. While this species could use the Project Area for hunting or foraging, this species generally nests and roosts in cliffs, outcrops or tall trees.	None.
Coastal cactus wren <i>Campylorhynchus brunneicapillus sandiegensis</i>	--	CSC	Coastal scrub	Not Expected. No cactus plants that would support this species are within or adjacent to the Project Area.	None.
Western snowy plover <i>Charadrius nivosus nivosus</i>	FT	CSC	Great Basin standing waters Sand shore Wetland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Northern harrier <i>Circus hudsonius</i>	--	CSC	Coastal scrub Great Basin grassland Marsh & swamp Riparian scrub Valley & foothill grassland Wetland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	FT	SE	Riparian Forest	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
white-tailed kite <i>Elanus leucurus</i>	--	FP	Cismontane woodland Marsh & swamp Riparian woodland Valley & foothill grassland Wetland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
Southwestern willow flycatcher <i>Empidonax traillii extimus</i>	FE	SE	Riparian woodland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
California horned lark <i>Eremophila alpestris actia</i>	--	WL	Marine intertidal & splash zone communities Meadow & seep	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Bald eagle <i>Haliaeetus leucocephalus</i>	DF	SE, FP	Lower montane coniferous forest Oldgrowth		None.
Yellow-breasted chat <i>Icteria virens</i>	--	CSC	Riparian forest Riparian scrub Riparian woodland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Loggerhead shrike <i>Lanius ludovicianus</i>	--	CSC	Broadleaved upland forest Desert wash Joshua tree woodland Mojavean desert scrub Pinon & juniper woodlands Riparian woodland Sonoran desert scrub	Not Expected. The Project Area does not provide dense vegetation for this species to nest in. Due to the levels of disturbance on the Project Area this species would not be expected.	None.
California black rail <i>Laterallus jamaicensis coturniculus</i>	--	ST, FP	Brackish marsh Freshwater marsh Marsh & swamp Salt marsh Wetland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
White-faced ibis <i>Plegadis chihi</i>	--	WL	Marsh & swamp Wetland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Coastal California gnatcatcher <i>Polioptila californica californica</i>	FT	CSC	Chaparral Coastal scrub	Not Expected. The Project Area does not provide vegetation for this species to nest in. Due to the levels of disturbance on the Project Area this species would not be expected.	None.
Yellow warbler <i>Setophaga petechia</i>	--	CSC	Riparian forest Riparian scrub Riparian woodland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
Lawrence's goldfinch <i>Spinus lawrencei</i>	--	--	Broadleaved upland forest Chaparral Pinon & juniper woodlands Riparian woodland	Not Expected. No bodies of water or vegetation types that would support this species are within or adjacent to the Project Area.	None.
Least Bell's vireo <i>Vireo bellii pusillus</i>	FE	SE	Riparian forest Riparian scrub Riparian woodland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
Yellow-headed blackbird <i>Xanthocephalus xanthocephalus</i>	--	CSC	Marsh & swamp Wetland	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
MAMMALS					
Dulzura pocket mouse <i>Chaetodipus californicus femoralis</i>	--	CSC	Chaparral Coastal scrub Valley & foothill grassland	Not Expected. The Project Area does not possess adequate vegetation / undisturbed ground that could support this species. While this species is known to occur in ruderal habitats, no chaparral or adequate shrub cover is present at the site.	None.
Northwestern San Diego pocket mouse <i>Chaetodipus fallax fallax</i>	--	CSC	Chaparral Coastal scrub	Not Expected. The Project Area does not possess adequate vegetation / undisturbed ground that could support this species.	None.
San Bernardino kangaroo rat <i>Dipodomys merriami parvus</i>	FE	CSC	Coastal scrub	Not Expected. The Project Area does not possess adequate vegetation / undisturbed ground that could support this species.	None.
Stephens' kangaroo rat <i>Dipodomys stephensi</i>	FE	ST	Coastal scrub Valley & foothill grassland	Potentially Present. The Project Area is located within the historical range of this species and is within the Stephens' Kangaroo Rat Conservation Plan Mitigation Fee Area.	See Req-1.
Western mastiff bat <i>Eumops perotis californicus</i>	--	CSC	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland	Not Expected. The Project Area does not possess adequate vegetation / undisturbed ground that could support this species.	None.

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

Species	Status		Habitat Requirements ¹	Discussion ²	Recommendations
	Federal	State			
Western yellow bat <i>Lasiurus xanthinus</i>	--	CSC	Desert wash	Not Expected. No mesic or riparian habitats that would support this species are within or adjacent to the Project Area.	None.
San Diego black-tailed jackrabbit <i>Lepus californicus bennettii</i>	--	CSC	Coastal scrub	Not Expected. The Project Area does not provide coastal sage scrub or similar, transitional native habitats that may support this species.	None.
San Diego desert woodrat <i>Neotoma lepida intermedia</i>	--	CSC	Coastal scrub	Not Expected. The Project Area does not provide coastal sage scrub or similar, transitional native habitats that may support this species.	None.
Pocketed free-tailed bat <i>Nyctinomops femorosaccus</i>	--	CSC	Joshua tree woodland Pinon & juniper woodlands Riparian scrub Sonoran Desert scrub	Not Expected. The Project Area does not provide native habitats with sufficient canopies or rocky areas that may support this species.	None.
Southern grasshopper mouse <i>Onychomys torridus ramona</i>	--	CSC	Chenopod scrub	Not Expected. The Project Area does not possess adequate scrub/shrub cover or sufficiently friable soils that could support this species.	None.
Los Angeles pocket mouse <i>Perognathus longimembris brevinasus</i>	--	CSC	Coastal scrub	Not Expected. Vegetation associations and soils present at the Project Area would not support this species.	None.
American badger <i>Taxidea taxus</i>	--	CSC	Various	Not Expected. The Project Area does not possess adequate vegetation / undisturbed ground that could support this species.	None.

STATUS KEY:

Federal

FE: Federally-listed Endangered

FT: Federally-listed Threatened

FD: Federally-delisted

State

Appendix C: Special-Status Animal Species with Potential to Occur at the Project Area.

SE: State-listed Endangered

ST: State-listed Threatened

CSC: California Species of Special Concern

WL: State Watch List

SOURCES:

¹ Excerpted from CNDDDB (2023)

² The potential for occurrence is based on occurrences recorded in the CNDDDB (2023) and CNPS (2023), knowledge of species requirements, and site inspections during 2023 field survey

Appendix D

Floral and Faunal Compendium

Floral and Faunal Compendium

Note: This is a list of species observed as part of the site visit on April 11, 2023. This species list does not represent a comprehensive study consisting of multiple visits and does not constitute a protocol-level survey for plants or animals.

Of note, the project site (APN No. 302-090-021) had been recently disced prior to this survey to comply with fire-code requirements, and the identification of species was primarily made from comparison to specimens observed adjacent to the site.

Kingdom Plantae	
DICOTS	
Amaranthaceae (Amaranth Family)	
Russian thistle	<i>Salsola tragus*</i>
Asteraceae (Sunflower Family)	
Stinknet	<i>Oncosiphon pilulifer*</i>
Boraginaceae (Borage Family)	
Devil's lettuce	<i>Amsinckia tessellata</i>
Brassicaceae (Mustard Family)	
Mustard	<i>Brassica tournefortii*</i>
Tumble mustard	<i>Sisymbrium altissimum*</i>
London rocket	<i>Sisymbrium irio*</i>
Geraniaceae (Geranium Family)	
Big heron's bill	<i>Erodium botrys*</i>
Coastal heron's bill	<i>Erodium cicutarium*</i>
Malvaceae (Mallow Family)	
Cheeseweed	<i>Malva parviflora*</i>
Zygophyllaceae (Caltrop Family)	
Puncture vine	<i>Tribulus terrestris*</i>
MONOCOTS	
Poaceae (Grass Family)	
Old han schismus	<i>Schismus barbatus*</i>
Foxtail barley	<i>Hordeum murinum*</i>
Red brome	<i>Bromus rubens*</i>
Kingdom Animalia	
INSECTS	
Coccinellidae (Ladybug Family)	
Lady Bug	<i>Coccinellidae sp.</i>
Papilionidae (Swallowtail Family)	
Swallowtail	<i>Papilio sp. (carcass)</i>
BIRDS	
Corvidae (Crow Family)	
Common raven	<i>Corvus corax</i>

Fringillidae (Finch Family)	
house finch	<i>Haemorhous mexicanus</i>
Tyrannidae (Tyrant Flycatcher Family)	
Black phoebe	<i>Sayornis nigricans</i>
Western kingbird	<i>Tyrannus verticalis</i>
MAMMALS	
Cricetidae (New World Mice & Rat Family)	
Western Harvest Mouse	<i>Reithrodontomys megalotis</i>
Heteromyidae (Kangaroo Rat & Pocket Mouse Family)	
Pocket Mouse sp.	<i>Perognathus</i> sp.
Asterisk (*) denotes non-native or invasive species.	

Appendix E Western Riverside MSHCP Best Management Practices (Page 1 of 1)

Excerpted verbatim from *Best Management Practices (Final Western Riverside MSHCP Volume I, Appendix C, 2003)*

1. A condition shall be placed on grading permits requiring a qualified biologist to conduct a training session for project personnel prior to grading. The training shall include a description of the species of concern and its habitats, the general provisions of the Endangered Species Act (Act) and the MSHCP, the need to adhere to the provisions of the Act and the MSHCP, the penalties associated with violating the provisions of the Act, the general measures that are being implemented to conserve the species of concern as they relate to the project, and the access routes to and project site boundaries within which the project activities must be accomplished.
2. Water pollution and erosion control plans shall be developed and implemented in accordance with RWQCB requirements.
3. The footprint of disturbance shall be minimized to the maximum extent feasible. Access to sites shall be via pre-existing access routes to the greatest extent possible.
4. The upstream and downstream limits of projects disturbance plus lateral limits of disturbance on either side of the stream shall be clearly defined and marked in the field and reviewed by the biologist prior to initiation of work.
5. Projects should be designed to avoid the placement of equipment and personnel within the stream channel or on sand and gravel bars, banks, and adjacent upland habitats used by target species of concern.
6. Projects that cannot be conducted without placing equipment or personnel in sensitive habitats should be timed to avoid the breeding season of riparian identified in MSHCP Global Species Objective No. 7.
7. When stream flows must be diverted, the diversions shall be conducted using sandbags or other methods requiring minimal instream impacts. Silt fencing of other sediment trapping materials shall be installed at the downstream end of construction activity to minimize the transport of sediments offsite. Settling ponds where sediment is collected shall be cleaned out in a manner that prevents the sediment from reentering the stream. Care shall be exercised when removing silt fences, as feasible, to prevent debris or sediment from returning to the stream.
8. Equipment storage, fueling, and staging areas shall be located on upland sites with minimal risks of direct drainage into riparian areas or other sensitive habitats. These designated areas shall be located in such a manner as to prevent any runoff from entering sensitive habitat. Necessary precautions shall be taken to prevent the release of cement or other toxic substances into surface waters. Project related spills of hazardous materials shall be reported to appropriate entities including but not limited to applicable jurisdictional city, FWS, and CDFG, RWQCB and shall be cleaned up immediately and contaminated soils removed to approved disposal areas.
9. Erodible fill material shall not be deposited into water courses. Brush, loose soils, or other similar debris material shall not be stockpiled within the stream channel or on its banks.
10. The qualified project biologist shall monitor construction activities for the duration of the project to ensure that practicable measures are being employed to avoid incidental disturbance of habitat and species of concern outside the project footprint.
11. The removal of native vegetation shall be avoided and minimized to the maximum extent practicable. Temporary impacts shall be returned to pre-existing contours and revegetated with appropriate native species.
12. Exotic species that prey upon or displace target species of concern should be permanently removed from the site to the extent feasible.
13. To avoid attracting predators of the species of concern, the project site shall be kept as clean of debris as possible. All food related trash items shall be enclosed in sealed containers and regularly removed from the site(s).
14. Construction employees shall strictly limit their activities, vehicles, equipment, and construction materials to the proposed project footprint and designated staging areas and routes of travel. The construction area(s) shall be the minimal area necessary to complete the project and shall be specified in the construction plans. Construction limits will be fenced with orange snow screen. Exclusion fencing should be maintained until the completion of all construction activities. Employees shall be instructed that their activities are restricted to the construction areas.
15. The Permittee shall have the right to access and inspect any sites of approved projects including any restoration/enhancement area for compliance with project approval conditions including these BMPs.