

APPENDIX B

Revised Draft EIR Appendix E Biological Resources- Special Status Plant and Wildlife Species Lists

INTENTIONALLY LEFT BLANK



APPENDIX E - BIOLOGICAL RESOURCES

SPECIAL STATUS TERRESTRIAL PLANT AND WILDLIFE SPECIES LISTS

PLANTS

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)
<i>Agrostis blasdalei</i>	Blasdale's bent grass	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal prairie/perennial rhizomatous herb/May–July/0–490
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	None/None/1B.2	Coastal bluff scrub, Cismontane woodland, Valley and foothill grassland/annual herb/Mar–June/10–1,640
<i>Anomobryum julaceum</i>	slender silver moss	None/None/4.2	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest; damp rock and soil on outcrops, usually on roadcuts/moss/N.A./328–3,280
<i>Arabis blepharophylla</i>	coast rockcress	None/None/4.3	Broadleafed upland forest, Coastal bluff scrub, Coastal prairie, Coastal scrub; rocky/perennial herb/Feb–May/10–3,605
<i>Arctostaphylos andersonii</i>	Anderson's manzanita	None/None/1B.2	Broadleafed upland forest, Chaparral, North Coast coniferous forest; openings, edges/perennial evergreen shrub/Nov–May/197–2,490
<i>Arctostaphylos glutinosa</i>	Schreiber's manzanita	None/None/1B.2	Closed-cone coniferous forest, Chaparral; diatomaceous shale/perennial evergreen shrub/(Nov)Mar–Apr/558–2,245
<i>Arctostaphylos hookeri</i> ssp. <i>hookeri</i>	Hooker's manzanita	None/None/1B.2	Closed-cone coniferous forest, Chaparral, Cismontane woodland, Coastal scrub; sandy/perennial evergreen shrub/Jan–June/197–1,755
<i>Arctostaphylos ohloneana</i>	Ohlone manzanita	None/None/1B.1	Closed-cone coniferous forest, Coastal scrub; siliceous shale/evergreen shrub/Feb–Mar/1,475–1,735
<i>Arctostaphylos pajaroensis</i>	Pajaro manzanita	None/None/1B.1	Chaparral (sandy)/perennial evergreen shrub/Dec–Mar/98–2,490
<i>Arctostaphylos regismontana</i>	Kings Mountain manzanita	None/None/1B.2	Broadleafed upland forest, Chaparral, North Coast coniferous forest; granitic or sandstone/perennial evergreen shrub/Dec–Apr/1,000–2,395
<i>Arctostaphylos silvicola</i>	Bonny Doon manzanita	None/None/1B.2	Closed-cone coniferous forest, Chaparral, Lower montane coniferous forest; inland marine sands/perennial evergreen shrub/Jan–Mar/394–1,965
<i>Arenaria paludicola</i>	marsh sandwort	FE/SE/1B.1	Marshes and swamps (freshwater brackish); sandy, openings/perennial stoloniferous herb/May–Aug/10–560
<i>Azolla microphylla</i>	Mexican mosquito fern	None/None/4.2	Marshes and swamps (ponds, slow water)/annual / perennial herb/Aug/98–330

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)
<i>Calandrinia breweri</i>	Brewer's calandrinia	None/None/4.2	Chaparral, Coastal scrub; sandy or loamy, disturbed sites and burns/annual herb/(Jan)Mar–June/33–4,000
<i>Calochortus uniflorus</i>	pink star-tulip	None/None/4.2	Coastal prairie, Coastal scrub, Meadows and seeps, North Coast coniferous forest/perennial bulbiferous herb/Apr–June/33–3,510
<i>Calyptidium parryi</i> var. <i>hesseae</i>	Santa Cruz Mountains pussypaws	None/None/1B.1	Chaparral, Cismontane woodland; sandy or gravelly, openings/annual herb/May–Aug/1,000–5,015
<i>Campanula californica</i>	swamp harebell	None/None/1B.2	Bogs and fens, Closed-cone coniferous forest, Coastal prairie, Meadows and seeps, Marshes and swamps (freshwater), North Coast coniferous forest; mesic/perennial rhizomatous herb/June–Oct/3–1,325
<i>Carex comosa</i>	bristly sedge	None/None/2B.1	Coastal prairie, Marshes and swamps (lake margins), Valley and foothill grassland/perennial rhizomatous herb/May–Sep/0–2,050
<i>Carex saliniformis</i>	deceiving sedge	None/None/1B.2	Coastal prairie, Coastal scrub, Meadows and seeps, Marshes and swamps (coastal salt); mesic/perennial rhizomatous herb/June(July)/10–755
<i>Castilleja ambigua</i> var. <i>ambigua</i>	johnny-nip	None/None/4.2	Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Valley and foothill grassland, Vernal pools margins/annual herb (hemiparasitic)/Mar–Aug/0–1,425
<i>Castilleja latifolia</i>	Monterey Coast paintbrush	None/None/4.3	Closed-cone coniferous forest, Cismontane woodland (openings), Coastal dunes, Coastal scrub; sandy/perennial herb (hemiparasitic)/Feb–Sep/0–605
<i>Ceanothus rigidus</i>	<u>Monterey</u> <u>ceanothus</u>	<u>None/None/4.2</u>	<u>Closed-cone coniferous forest, Chaparral, Coastal scrub;</u> <u>sandy/perennial evergreen shrub/Feb–Apr(June)/10–1,800</u>
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Congdon's tarplant	None/None/1B.1	Valley and foothill grassland (alkaline)/annual herb/May–Oct(Nov)/0–755
<i>Chorizanthe pungens</i> var. <i>hartwegiana</i>	Ben Lomond spineflower	FE/None/1B.1	Lower montane coniferous forest (maritime ponderosa pine sandhills)/annual herb/Apr–July/295–2,000
<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey spineflower	FT/None/1B.2	Chaparral (maritime), Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland; sandy/annual herb/Apr–June(July–Aug)/10–1,475
<i>Chorizanthe robusta</i> var. <i>hartwegii</i>	Scotts Valley spineflower	FE/None/1B.1	Meadows and seeps (sandy), Valley and foothill grassland (mudstone and Purisima outcrops)/annual herb/Apr–July/755–805
<i>Chorizanthe robusta</i> var. <i>robusta</i>	robust spineflower	FE/None/1B.1	Chaparral (maritime), Cismontane woodland (openings), Coastal dunes, Coastal scrub; sandy or gravelly/annual herb/Apr–Sep/10–985
<i>Clarkia breweri</i>	Brewer's clarkia	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub; often serpentinite/annual herb/Apr–June/705–3,655
<i>Clarkia concinna</i> ssp. <i>automixia</i>	Santa Clara red ribbons	None/None/4.3	Chaparral, Cismontane woodland/annual herb/(Apr)May–June(July)/295–4,920

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)
<i>Collinsia multicolor</i>	San Francisco collinsia	None/None/1B.2	Closed-cone coniferous forest, Coastal scrub; sometimes serpentinite/annual herb/(Feb)Mar–May/98–902
<i>Cypripedium fasciculatum</i>	clustered lady's-slipper	None/None/4.2	Lower montane coniferous forest, North Coast coniferous forest; usually serpentinite seeps and streambanks/perennial rhizomatous herb/Mar–Aug/328–7,985
<i>Cypripedium montanum</i>	mountain lady's-slipper	None/None/4.2	Broadleafed upland forest, Cismontane woodland, Lower montane coniferous forest, North Coast coniferous forest/perennial rhizomatous herb/Mar–Aug/607–7,295
<i>Dacryophyllum falcifolium</i>	tear drop moss	None/None/1B.3	North Coast coniferous forest; carbonate/moss/N.A./164–900
<i>Elymus californicus</i>	California bottle-brush grass	None/None/4.3	Broadleafed upland forest, Cismontane woodland, North Coast coniferous forest, Riparian woodland/perennial herb/May–Aug(Nov)/49–1,540
<i>Eriogonum nudum</i> var. <i>decurvans</i>	Ben Lomond buckwheat	None/None/1B.1	Chaparral, Cismontane woodland, Lower montane coniferous forest (maritime ponderosa pine sandhills); sandy/perennial herb/June–Oct/164–2,620
<i>Erysimum ammophilum</i>	sand-loving wallflower	None/None/1B.2	Chaparral (maritime), Coastal dunes, Coastal scrub; sandy, openings/perennial herb/Feb–June/0–195
<i>Erysimum franciscanum</i>	San Francisco wallflower	None/None/4.2	Chaparral, Coastal dunes, Coastal scrub, Valley and foothill grassland; often serpentinite or granitic, sometimes roadsides/perennial herb/Mar–June/0–1,800
<i>Erysimum teretifolium</i>	Santa Cruz wallflower	FE/SE/1B.1	Chaparral, Lower montane coniferous forest; inland marine sands/perennial herb/Mar–July/394–2,000
<i>Eschscholzia hypecoidea</i>	San Benito poppy	None/None/4.3	Chaparral, Cismontane woodland, Valley and foothill grassland; serpentinite clay/annual herb/Mar–June/656–4,920
<i>Fissidens pauperculus</i>	minute pocket moss	None/None/1B.2	North Coast coniferous forest (damp coastal soil)/moss/N.A./33–3,355
<i>Fritillaria agrestis</i>	<u>stinkbell</u>	<u>None/None/4.2</u>	<u>Chaparral, Cismontane woodland, Pinyon and juniper woodland, Valley and foothill grassland: Clay, sometimes serpentinite/perennial bulbiferous herb/Mar–June/33–5,100</u>
<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	Monterey gilia	FE/ST/1B.2	Chaparral (maritime), Cismontane woodland, Coastal dunes, Coastal scrub; sandy, openings/annual herb/Apr–June/0–150
<i>Grimmia torenii</i>	Toren's grimmia	None/None/1B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest; Openings, rocky, boulder and rock walls, carbonate, volcanic/moss/N.A./1,065–3,805
<i>Grimmia vaginulata</i>	vaginulate grimmia	None/None/1B.1	Chaparral (openings); Rocky, boulder and rock walls, carbonate/moss/N.A./2,245–2,245
<i>Hesperevax sparsiflora</i> var. <i>brevifolia</i>	short-leaved evax	None/None/1B.2	Coastal bluff scrub (sandy), Coastal dunes, Coastal prairie/annual herb/Mar–June/0–705

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)
<i>Hesperocyparis abramsiana</i> var. <i>abramsiana</i>	Santa Cruz cypress	FT/SE/1B.2	Closed-cone coniferous forest, Chaparral, Lower montane coniferous forest; sandstone or granitic/perennial evergreen tree/N.A./919–2,620
<i>Holocarpha macradenia</i>	Santa Cruz tarplant	FT/SE/1B.1	Coastal prairie, Coastal scrub, Valley and foothill grassland; often clay, sandy/annual herb/June–Oct/33–720
<i>Horkelia cuneata</i> var. <i>sericea</i>	Kellogg's horkelia	None/None/1B.1	Closed-cone coniferous forest, Chaparral (maritime), Coastal dunes, Coastal scrub; sandy or gravelly, openings/perennial herb/Apr–Sep/33–655
<i>Horkelia marinensis</i>	Point Reyes horkelia	None/None/1B.2	Coastal dunes, Coastal prairie, Coastal scrub; sandy/perennial herb/May–Sep/16–2,475
<i>Hosackia gracilis</i>	harlequin lotus	None/None/4.2	Broadleafed upland forest, Coastal bluff scrub, Closed-cone coniferous forest, Cismontane woodland, Coastal prairie, Coastal scrub, Meadows and seeps, Marshes and swamps, North Coast coniferous forest, Valley and foothill grassland; wetlands, roadsides/perennial rhizomatous herb/Mar–July/0–2,295
<i>Iris longipetala</i>	coast iris	None/None/4.2	Coastal prairie, Lower montane coniferous forest, Meadows and seeps; mesic/perennial rhizomatous herb/Mar–May(June)/0–1,965
<i>Jepsonia malvifolia</i>	island jepsonia	None/None/4.2	Chaparral, Coastal scrub/perennial herb/Aug,Oct,Nov,Dec,Jan/49–3,280
<i>Lasthenia californica</i> ssp. <i>macrantha</i>	perennial goldfields	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub/perennial herb/Jan–Nov/16–1,705
<i>Leptosiphon acicularis</i>	bristly leptosiphon	None/None/4.2	Chaparral, Cismontane woodland, Coastal prairie, Valley and foothill grassland/annual herb/Apr–July/180–4,920
<i>Leptosiphon ambiguus</i>	serpentine leptosiphon	None/None/4.2	Cismontane woodland, Coastal scrub, Valley and foothill grassland; usually serpentinite/annual herb/Mar–June/394–3,705
<i>Leptosiphon grandiflorus</i>	large-flowered leptosiphon	None/None/4.2	Coastal bluff scrub, Closed-cone coniferous forest, Cismontane woodland, Coastal dunes, Coastal prairie, Coastal scrub, Valley and foothill grassland; usually sandy/annual herb/Apr–Aug/16–4,000
<i>Lessingia hololeuca</i>	woolly-headed lessingia	None/None/3	Broadleafed upland forest, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; clay, serpentinite/annual herb/June–Oct/49–1,000
<i>Lilium rubescens</i>	redwood lily	None/None/4.2	<u>Broadleafed upland forest, Chaparral, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest; Sometimes serpentinite, sometimes roadsides/perennial bulbiferous herb/Apr–Aug(Sep)/98–6,265</u>
<i>Lomatium parviflorum</i>	Small-leaved Lomatium	None/None/4.2	<u>Closed-cone coniferous forest, Chaparral, Coastal scrub, Riparian woodland; serpentinite/perennial herb/Jan–June/66–2,295</u>
<i>Malacothamnus arcuatus</i>	arcuate bush-mallow	None/None/1B.2	Chaparral, Cismontane woodland/perennial evergreen shrub/Apr–Sep/49–1,160

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)
<i>Micropus amphibolus</i>	Mt. Diablo cottonweed	None/None/3.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Valley and foothill grassland; rocky/annual herb/Mar-May/148–2,705
<i>Microseris paludosa</i>	marsh microseris	None/None/1B.2	Closed-cone coniferous forest, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial herb/Apr-June(July)/16–1,160
<i>Mielichhoferia elongata</i>	elongate copper moss	None/None/4.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Subalpine coniferous forest; Metamorphic rock, usually acidic, usually vernal mesic, often roadsides, sometimes carbonate/moss/N.A./0–6,430
<i>Mimulus rattanii</i> ssp. <i>decurtatus</i>	Santa Cruz County monkeyflower	None/None/4.2	Chaparral, Lower montane coniferous forest; margins, gravelly/annual herb/May–July/1,310–1,640
<i>Monardella sinuata</i> ssp. <i>nigrescens</i>	northern curly-leaved monardella	None/None/1B.2	Chaparral (SCR Co.), Coastal dunes, Coastal scrub, Lower montane coniferous forest (SCR Co., ponderosa pine sandhills); Sandy./annual herb/(Apr)May–July(Aug–Sep)/0–985
<i>Monardella undulata</i> ssp. <i>undulata</i>	San Luis Obispo monardella	None/None/1B.2	Coastal dunes, Coastal scrub (sandy)/perennial rhizomatous herb/May–Sep/33–655
<i>Monolopia gracilens</i>	woodland woolythreads	None/None/1B.2	Broadleafed upland forest (openings), Chaparral (openings), Cismontane woodland, North Coast coniferous forest (openings), Valley and foothill grassland; Serpentine/annual herb/(Feb)Mar–July/328–3,935
<i>Orthotrichum kellmanii</i>	Kellman's bristle moss	None/None/1B.2	Chaparral, Cismontane woodland; sandstone, carbonate/moss/Jan–Feb/1,125–2,245
<i>Pedicularis dudleyi</i>	Dudley's lousewort	None/SR/1B.2	Chaparral (maritime), Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland/perennial herb/Apr–June/197–2,950
<i>Penstemon rattanii</i> var. <i>kleei</i>	Santa Cruz Mountains beardtongue	None/None/1B.2	Chaparral, Lower montane coniferous forest, North Coast coniferous forest/perennial herb/May–June/1,310–3,605
<i>Pentachaeta bellidiflora</i>	white-rayed pentachaeta	FE/SE/1B.1	Cismontane woodland, Valley and foothill grassland (often serpentinite)/annual herb/Mar–May/115–2,030
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Gairdner's yampah	None/None/4.2	Broadleafed upland forest, Chaparral, Coastal prairie, Valley and foothill grassland, Vernal pools; vernal mesic/perennial herb/June–Oct/0–2,000
<i>Pinus radiata</i>	Monterey pine	None/None/1B.1	Closed-cone coniferous forest, Cismontane woodland/perennial evergreen tree/N.A./82–605
<i>Piperia candida</i>	white-flowered rein orchid	None/None/1B.2	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest; sometimes serpentinite/perennial herb/(Mar)May–Sep/98–4,295
<i>Piperia michaelii</i>	Michael's rein orchid	None/None/4.2	Coastal bluff scrub, Closed-cone coniferous forest, Chaparral, Cismontane woodland, Coastal scrub, Lower

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)
			montane coniferous forest/perennial herb/Apr–Aug/10–3,000
<i>Plagiobothrys chorisioides</i> var. <i>chorisioides</i>	Choris' popcornflower	None/None/1B.2	Chaparral, Coastal prairie, Coastal scrub; mesic/annual herb/Mar–June/10–525
<i>Plagiobothrys chorisioides</i> var. <i>hickmanii</i>	Hickman's popcornflower	None/None/4.2	Closed-cone coniferous forest, Chaparral, Coastal scrub, Marshes and swamps, Vernal pools/annual herb/Apr–June/49–605
<i>Plagiobothrys diffusus</i>	San Francisco popcornflower	None/SE/1B.1	Coastal prairie, Valley and foothill grassland/annual herb/Mar–June/197–1,180
<i>Polygonum hickmanii</i>	Scotts Valley polygonum	FE/SE/1B.1	Valley and foothill grassland (mudstone and sandstone)/annual herb/May–Aug/689–820
<i>Puccinellia simplex</i>	California alkali grass	None/None/1B.2	Chenopod scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; Alkaline, vernal mesic; sinks, flats, and lake margins/annual herb/Mar–May/7–3,050
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None/None/4.2	Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools; mesic/annual herb (aquatic)/Feb–May/49–1,540
<i>Rosa pinetorum</i>	pine rose	None/None/1B.2	Closed-cone coniferous forest, Cismontane woodland/perennial shrub/May,July/7–3,100
<i>Sanicula hoffmannii</i>	Hoffmann's sanicle	None/None/4.3	Broadleafed upland forest, Coastal bluff scrub, Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest; often serpentinite or clay/perennial herb/Mar–May/98–985
<i>Senecio aphanactis</i>	chaparral ragwort	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub; sometimes alkaline/annual herb/Jan–Apr(May)/49–2,620
<i>Sidalcea malachroides</i>	maple-leaved checkerbloom	None/None/4.2	Broadleafed upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland; Often in disturbed areas/perennial herb/(Mar)Apr–Aug/0–2,395
<i>Silene verecunda</i> ssp. <i>verecunda</i>	San Francisco campion	None/None/1B.2	Coastal bluff scrub, Chaparral, Coastal prairie, Coastal scrub, Valley and foothill grassland; sandy/perennial herb/(Feb)Mar–June(Aug)/98–2,115
<i>Stebbinsoseris decipiens</i>	Santa Cruz microseris	None/None/1B.2	Broadleafed upland forest, Closed-cone coniferous forest, Chaparral, Coastal prairie, Coastal scrub, Valley and foothill grassland; open areas, sometimes serpentinite/annual herb/Apr–May/33–1,640
<i>Toxicoscordion fontanum</i>	marsh zigadenus	None/None/4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps; vernal mesic, often serpentinite/perennial bulbiferous herb/Apr–July/49–3,280
<i>Trifolium buckwestiorum</i>	Santa Cruz clover	None/None/1B.1	Broadleafed upland forest, Cismontane woodland, Coastal prairie; gravelly, margins/annual herb/Apr–Oct/344–2,000
<i>Trifolium hydrophilum</i>	saline clover	None/None/1B.2	Marshes and swamps, Valley and foothill grassland (mesic, alkaline), Vernal pools/annual herb/Apr–June/0–985

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)
Trifolium polyodon	Pacific Grove clover	None/SR/1B.1	Closed-cone coniferous forest, Coastal prairie, Meadows and seeps, Valley and foothill grassland; mesic, sometimes granitic/annual herb/Apr–June(July)/16–1,390
Usnea longissima	Methuselah's beard lichen	None/None/4.2	Broadleafed upland forest, North Coast coniferous forest; On tree branches; usually on old growth hardwoods and conifers/fruticose lichen (epiphytic)/N.A./164–4,790

Sources: CDFW 2021a, CNPS 2021

Status Legend:

FE: Federally listed as endangered

FT: Federally listed as threatened

FC: Federal Candidate for listing

DL: Delisted

SE: State listed as endangered

ST: State listed as threatened

SR: State Rare

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

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

CRPR 3: Review List: Plants about which more information is needed

CRPR 4: Watch List: Plants of limited distribution

.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)

.2 Moderately threatened in California (20–80% occurrences threatened / moderate degree and immediacy of threat)

.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)"

WILDLIFE

Common Name	Scientific Name	Status (Federal/State)	Habitat
Invertebrates			
Bay checkerspot butterfly	<i>Euphydryas editha bayensis</i>	FT/None	Serpentine grassland in Santa Clara and San Mateo Counties. Primary host plant is native plantain (<i>Plantago erecta</i>) with two secondary host plants: purple owl's-clover (<i>Castilleja densiflora</i>) and exserted paintbrush (<i>Castilleja exserta</i>).
<u>Monarch Butterfly - California overwintering population</u>	<u><i>Danaus plexippus pop. 1</i></u>	<u>FC/None</u>	<u>Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.</u>
Mount Hermon (=barbate) June beetle	<i>Polyphylla barbata</i>	FE/None	Known only from sand hills in vicinity of Mount Hermon, Santa Cruz County, where it occurs in sparsely vegetated ponderosa pine and chaparral habitat with sandy sedimentary derived soils in the Zayante Sandhills formation.
Ohlone tiger beetle	<i>Cicindela ohlone</i>	FE/None	Remnant native grasslands with California oatgrass (<i>Danthonia californica</i>) and purple needlegrass (<i>Stipa pulchra</i>) in Santa Cruz County
Smith's blue butterfly	<i>Euphilotes enoptes smithi</i>	FE/None	Restricted to Monterey and Santa Cruz Counties, where they occur in coastal sand dunes, coastal sage scrub, chaparral, grassland, and their ecotones.
Zayante band-winged grasshopper	<i>Trimerotropis infantilis</i>	FE/None	Open sandy areas with sparse, low annual and perennial herbs on high ridges and hills with sparse ponderosa pine within the Zayante Sandhills formation in Santa Cruz County.
Fishes			
Coho salmon - central California coast ESU	<i>Oncorhynchus kisutch</i> pop. 4	FE/SE	Coho spend approximately the first half of their life cycle rearing and feeding in streams and small freshwater tributaries. Spawning habitat is small streams with stable gravel substrates. The remainder of the life cycle is spent foraging in estuarine and marine waters of the Pacific Ocean. They feed on plankton and insects in freshwater and switch to a diet of small fishes while in the ocean. Southern limit of range is in central Santa Cruz county.
Eulachon	<i>Thaleichthys pacificus</i>	FT/None	Found in Klamath River, Mad River, and Redwood Creek and in small numbers in Smith River and Humboldt Bay tributaries

Common Name	Scientific Name	Status (Federal/State)	Habitat
Monterey hitch	<i>Lavinia exilicauda harengus</i>	None/SSC	Tributaries to Monterey Bay, specifically the Salinas, Pajaro, & San Lorenzo drainages. Occur in a wide variety of habitats but most abundant in lowlands with large pools or small reservoirs that mimic such conditions.
Steelhead - central California coast DPS	<i>Oncorhynchus mykiss irideus</i> pop. 8	FT/None	Spawns in streams from the Russian River, Sonoma County, to Aptos Creek, Santa Cruz County, California (inclusive). Also occur in drainages tributary to San Francisco and San Pablo Bays. Regardless of life history strategy, for the first year or two of life rainbow trout and steelhead are found in cool, clear, fast-flowing permanent streams and rivers where riffles predominate over pools, there is ample cover from riparian vegetation or undercut banks, and invertebrate life is diverse and abundant.
Steelhead - south-central California coast DPS	<i>Oncorhynchus mykiss irideus</i> pop. 9	FT/None	Coastal basins streams from Redwood Creek the Pajaro River south to, but not including the Gualala Santa Maria River, inclusive; does not include summer-run steelhead
Tidewater goby	<i>Eucyclogobius newberryi</i>	FE/SSC	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County, to the mouth of the Smith River
Amphibians			
California giant salamander	<i>Dicamptodon ensatus</i>	None/SSC	Known from wet coastal forests and chaparral near streams and seeps from Mendocino Co. south to Monterey Co. and east to Napa Co. Aquatic larvae found in cold, clear streams, occasionally in lakes and ponds. Adults known from wet forests under rocks and logs near streams and lakes.
California red-legged frog	<i>Rana draytonii</i>	FT/SSC	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands
California tiger salamander - central California DPS	<i>Ambystoma californiense</i>	FT/ST	Annual grassland, valley–foothill hardwood, and valley–foothill riparian habitats; vernal pools, other ephemeral pools, and (uncommonly) along stream courses and man-made pools if predatory fishes are absent
Foothill yellow-legged frog	<i>Rana boylii</i>	None/SSC, SE	Rocky streams and rivers with open banks in forest, chaparral, and woodland
Santa Cruz black salamander	<i>Aneides flavipunctatus niger</i>	None/SSC	Restricted to mesic forests in the fog belt of the outer Coast Range of San Mateo, Santa Cruz, and Santa Clara counties. Mixed deciduous and coniferous woodlands and

Common Name	Scientific Name	Status (Federal/State)	Habitat
			coastal grasslands. Occurs in moist streamside microhabitats and is found under rocks, talus, and damp woody debris.
Santa Cruz long-toed salamander	<i>Ambystoma macrodactylum croceum</i>	FE/FP, SE	Temporary ponds for breeding and adjacent riparian vegetation, coastal scrub, and oak woodland during the nonbreeding season. This subspecies is restricted to southern Santa Cruz and northern Monterey Counties. Its entire distribution spans no more than 15 miles.
Reptiles			
<u>Coast horned lizard</u>	<u><i>Phrynosoma blainvillii</i></u>	<u>None/SSC</u>	<u>Occurs in a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Requires open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.</u>
Northern California legless lizard	<i>Anniella pulchra</i>	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils
San Francisco gartersnake	<i>Thamnophis sirtalis tetrataenia</i>	FE/SE, FP	Endemic to San Francisco Peninsula from northern San Mateo County along eastern Santa Cruz Mountains and west to Point Año Nuevo. Most commonly associated with emergent vegetation along the borders of ponds, marshes, and lakes. Rodent burrows in adjacent uplands are an important habitat component as they provide hibernation sites and escape cover.
Western pond turtle	<i>Emys (=Actinemys) marmorata</i>	None/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter
Birds			
American peregrine falcon (nesting)	<i>Falco peregrinus anatum</i>	None/FP	Nests on cliffs, buildings, and bridges; forages in wetlands, riparian, meadows, croplands, especially where waterfowl are present
Bald eagle (nesting & wintering)	<i>Haliaeetus leucocephalus</i>	BGEPA/SE, FP	Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains
Bank swallow (nesting)	<i>Riparia riparia</i>	None/ST	Nests in riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; open country and water during migration

Common Name	Scientific Name	Status (Federal/State)	Habitat
Black swift (nesting)	<i>Cypseloides niger</i>	None/SSC	Nests in moist crevices, caves, and cliffs behind or adjacent to waterfalls in deep canyons; forages over a wide range of habitats
Burrowing owl	<i>Athene cunicularia</i>	None/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows
California black rail	<i>Laterallus jamaicensis coturniculus</i>	None/FP, ST	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation.
<u>California brown pelican</u>	<u><i>Pelecanus occidentalis californicus</i></u>	None/FP	<u>Colonial nester on coastal islands in southern California and Baja California just outside the surf line. Post-breeding adults and dispersing juveniles forage over marine and estuarine waters along the central and northern California coast from June to November.</u>
California condor	<i>Gymnogyps californianus</i>	FE/FP, SE	Nests in rock formations, deep caves, and occasionally in cavities in giant sequoia trees (<i>Sequoiadendron giganteus</i>); forages in relatively open habitats where large animal carcasses can be detected
California least tern (nesting colony)	<i>Sternula antillarum browni</i>	FE/FP, SE	Forages in shallow estuaries and lagoons; nests on sandy beaches or exposed tidal flats
<u>California spotted owl</u>	<u><i>Strix occidentalis occidentalis</i></u>	None/SSC	<u>Mixed conifer forest, often with an understory of deciduous hardwoods. Most often found in deep-shaded canyons, on north-facing slopes, and within 990 feet of water.</u>
Golden eagle (nesting & wintering)	<i>Aquila chrysaetos</i>	BGEPA/FP	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats
Grasshopper sparrow (nesting)	<i>Ammodramus savannarum</i>	None/SSC	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches
Least Bell's vireo (nesting)	<i>Vireo bellii pusillus</i>	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season
<u>Loggerhead shrike (nesting)</u>	<u><i>Lanius ludovicianus</i></u>	None/SSC	<u>Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.</u>
Long-eared owl (nesting)	<i>Asio otus</i>	None/SSC	Nests in riparian habitat, live oak thickets, other dense stands of trees, edges of coniferous forest; forages in nearby open habitats

Common Name	Scientific Name	Status (Federal/State)	Habitat
Marbled murrelet	<i>Brachyramphus marmoratus</i>	FT/SE	Nests in old-growth coastal forests, forages in subtidal and pelagic habitats
Olive-sided flycatcher (nesting)	<i>Contopus cooperi</i>	None/SSC	Nests in mixed-conifer, montane hardwood-conifer, Douglas-fir, redwood, red fir, and lodgepole pine habitats; usually close to water
Purple martin (nesting)	<i>Progne subis</i>	None/SSC	Nests and forages in woodland habitats including riparian, coniferous, and valley foothill and montane woodlands; in the Sacramento region often nests in weep holes under elevated freeways
Saltmarsh (=San Francisco) common yellowthroat	<i>Geothlypis trichas sinuosa</i>	None/SSC	Resident of the San Francisco Bay region, in fresh and salt water marshes. Requires thick, continuous cover down to water surface for foraging: tall grasses, tule patches, willows for nesting.
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands <u>in the Southwest</u> ; uses variety of riparian and shrubland habitats during migration
Tricolored blackbird (nesting colony)	<i>Agelaius tricolor</i>	None/SSC, ST	Nests in freshwater, emergent wetlands with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	FT/SSC	On coasts nests on sandy marine and estuarine shores; in the interior nests on sandy, barren or sparsely vegetated flats near saline or alkaline lakes, reservoirs, and ponds
White-tailed kite (nesting)	<i>Elanus leucurus</i>	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands.
Willow flycatcher	<i>Empidonax traillii</i>	None/SSC	<u>Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration</u>
Yellow warbler (nesting)	<i>Setophaga petechia</i>	None/SSC	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats
Yellow-breasted chat (nesting)	<i>Icteria virens</i>	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush
Mammals			
American badger	<i>Taxidea taxus</i>	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils.

Common Name	Scientific Name	Status (Federal/State)	Habitat
Monterey shrew	<i>Sorex ornatus salarius</i>	None/SSC	Riparian, wetland & upland areas in the vicinity of the Salinas River delta.
Pallid bat	<i>Antrozous pallidus</i>	None/SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees
San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	FE/ST	Annual grasslands or grassy open stages with scattered shrubby vegetation. Need loose-textured sandy soils for burrowing, and suitable prey base.
San Francisco dusky-footed woodrat	<i>Neotoma fuscipes annectens</i>	None/SSC	Forest habitats with a moderate canopy and moderate to dense understory
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	None/SSC	Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, man-made structures, and tunnels
Western red bat	<i>Lasiurus blossevillii</i>	None/SSC	Roosts primarily in trees from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.

Sources: CDFW 2021a, USFWS 2021a

Status Legend:

BGEPA: Bald and Golden Eagle Protection Act

FE: Federally Endangered

FT: Federally Threatened

FC: Federal Candidate

FP: California Fully Protected Species

SSC: California Species of Special Concern

SE: State Endangered

ST: State Threatened

Other Species on CDFW Special Animals List

Common Name	Scientific Name	Other Status	Notes
Invertebrates			
Dolloff cave spider	<i>Meta dolloff</i>	IUCN: VU	Likely meets definition of rare, threatened, or endangered under CEQA Guidelines Section 15380
Santa Cruz telemid spider	<i>Telema</i> sp.	-	Likely meets definition of rare, threatened, or endangered under CEQA Guidelines Section 15380
Empire Cave pseudoscorpion	<i>Neochthonius imperialis</i>	-	Likely meets definition of rare, threatened, or endangered under CEQA Guidelines Section 15380
mimic tryonia (=California freshwater brackish snail)	<i>Tryonia imitator</i>	IUCN: DD	May not meet definition under CEQA Guidelines Sec. 15380.
Birds			
Cooper's hawk	<i>Accipiter cooperi</i>	CDFW: WL	Former SSC not included in Shuford and Gardali (2008) update. Known to nest in County but more common in urban and semiurban areas now.
Sharp-shinned hawk	<i>Accipiter striatus</i>	CDFW: WL	Former SSC not included in Shuford and Gardali (2008) update. Known to nest in County.
Ferruginous hawk (wintering)	<i>Buteo regalis</i>	CDFW: WL USFWS: BCC	Former SSC not included in Shuford and Gardali (2008) update. Known to winter in coastal grasslands in the County.
Lawrence's goldfinch	<i>Spinus lawrencei</i>	NABCI: YWL USFWS: BCC	Known to nest in County.
Mammals			
Hoary bat	<i>Lasiurus cinereus</i>	WBWG: M	Former SSC and CDFW Watch List species. Likely to occur in County.

Sources: CDFW 2022

Status Legend:

CDFW: WL = CDFW Watch List

IUCN: VU = International Union for the Conservation of Nature (IUCN) – Vulnerable

IUCN: DD = IUCN Data-Deficient

NABCI: YWL = North American Bird Conservation Initiative - Yellow Watch List(species that may be range restricted or may be more widespread but with declines and high threats)

WBWG: M = Western Bat Working Group Medium Priority Species

USFWS: BCC = USFWS Bird Species of Conservation Concern