

Special Status Plant Species in the Regional Vicinity of the Plan Area

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
<i>Amsinckia lunaris</i> bent-flowered fiddleneck	None/None G3/S3 1B.2	Annual herb. Cismontane woodland, coastal bluff scrub, valley and foothill grassland. Elevations: 10-1640ft. (3-500m.) Blooms Mar-Jun.	No Potential	No habitat associated with this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Arctostaphylos andersonii</i> Anderson's manzanita	None/None G2/S2 1B.2	Perennial evergreen shrub. Broadleafed upland forest, chaparral, north coast coniferous forest. Edges, openings. Elevations: 195-2495ft. (60-760m.) Blooms Nov-May.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Arctostaphylos hookeri</i> ssp. <i>hookeri</i> Hooker's manzanita	None/None G3T2/S2 1B.2	Perennial evergreen shrub. Chaparral, cismontane woodland, closed-cone coniferous forest, coastal scrub. Sandy. Elevations: 195-1760ft. (60-536m.) Blooms Jan-Jun.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Arctostaphylos pajaroensis</i> Pajaro manzanita	None/None G1/S1 1B.1	Perennial evergreen shrub. Chaparral. Sandy soils. Elevations: 100-2495ft. (30-760m.) Blooms Dec-Mar.	No Potential	No habitat associated with this species occurs within the project area.

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<i>Arctostaphylos silvicola</i> Bonny Doon manzanita	None/None G1/S1 1B.2	Perennial evergreen shrub. Chaparral, closed-cone coniferous forest, lower montane coniferous forest. Only known from Zayante (inland marine) sands in Santa Cruz County. Elevations: 395-1970ft. (120-600m.) Blooms Jan-Mar.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Calyptidium parryi</i> var. <i>hesseae</i> Santa Cruz Mountains pussypaws	None/None G3G4T2/S2 1B.1	Annual herb. Chaparral, cismontane woodland. Gravelly (sometimes), openings, sandy (sometimes). Elevations: 1000-5020ft. (305-1530m.) Blooms May-Aug.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Carex comosa</i> bristly sedge	None/None G5/S2 2B.1	Perennial rhizomatous herb. Coastal prairie, marshes and swamps, valley and foothill grassland. Lake margins, wet places; site below sea level is on a Delta island. Elevations: 0-2050ft. (0-625m.) Blooms May-Sep.	No Potential	No habitat associated with this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Ceanothus ferrisiae</i> coyote ceanothus	FE/None G1/S1 1B.1	Perennial evergreen shrub. Chaparral, coastal scrub, valley and foothill grassland. Serpentine. Elevations: 395-1510ft. (120-460m.) Blooms Jan-May.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years

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<i>Centromadia parryi</i> ssp. <i>congdonii</i> Congdon's tarplant	None/None G3T1T2/S1S2 1B.1	Annual herb. Valley and foothill grassland. Alkaline soils, sometimes described as heavy white clay. Elevations: 0-755ft. (0-230m.) Blooms May-Oct(Nov).	No Potential	No habitat associated with this species occurs within the project area.
<i>Chorizanthe pungens</i> var. <i>hartwegiana</i> Ben Lomond spineflower	FE/None G2T1/S1 1B.1	Annual herb. Lower montane coniferous forest. Zayante coarse sands in maritime ponderosa pine sandhills. Elevations: 295-2000ft. (90-610m.) Blooms Apr-Jul.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Chorizanthe pungens</i> var. <i>pungens</i> Monterey spineflower	FT/None G2T2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, coastal dunes, coastal scrub, valley and foothill grassland. Sandy. Elevations: 10-1475ft. (3-450m.) Blooms Apr-Jun(Jul-Aug).	No Potential	No habitat associated with this species occurs within the project area.
<i>Chorizanthe robusta</i> var. <i>hartwegii</i> Scotts Valley spineflower	FE/None G2T1/S1 1B.1	Annual herb. Meadows and seeps, valley and foothill grassland. In grasslands with mudstone and sandstone outcrops. Elevations: 755-805ft. (230-245m.) Blooms Apr-Jul.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Chorizanthe robusta</i> var. <i>robusta</i> robust spineflower	FE/None G2T1/S1 1B.1	Annual herb. Chaparral, cismontane woodland, coastal dunes, coastal scrub. Gravelly (sometimes), sandy (sometimes). Elevations: 10-985ft. (3-300m.) Blooms Apr-Sep.	No Potential	No habitat associated with this species occurs within the project area.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
<i>Cirsium fontinale</i> var. <i>campylon</i> Mt. Hamilton thistle	None/None G2T2/S2 1B.2	Perennial herb. Chaparral, cismontane woodland, valley and foothill grassland. Seeps, serpentinite. Elevations: 330-2920ft. (100-890m.) Blooms (Feb)Apr-Oct.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Collinsia multicolor</i> San Francisco collinsia	None/None G2/S2 1B.2	Annual herb. Closed-cone coniferous forest, coastal scrub. Serpentinite (sometimes). Elevations: 100-900ft. (30-275m.) Blooms (Feb)Mar-May.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Cordylanthus rigidus</i> ssp. littoralis seaside bird's-beak	None/SCE G5T2/S2 1B.1	Annual herb (hemiparasitic). Chaparral, cismontane woodland, closed-cone coniferous forest, coastal dunes, coastal scrub. Disturbed areas (often), sandy. Elevations: 0-1690ft. (0-515m.) Blooms Apr-Oct.	No Potential	No habitat associated with this species occurs within the project area.
<i>Dudleya abramsii</i> ssp. <i>setchellii</i> Santa Clara Valley dudleya	FE/None G4T2/S2 1B.1	Perennial herb. Cismontane woodland, valley and foothill grassland. Rocky, serpentinite. Elevations: 195-1755ft. (60-535m.) Blooms Apr-Oct.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years

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<i>Ericameria fasciculata</i> Eastwood's goldenbush	None/None G2/S2 1B.1	Perennial evergreen shrub. Chaparral, closed-cone coniferous forest, coastal dunes, coastal scrub. In sandy openings. Elevations: 100-900ft. (30-275m.) Blooms Jul-Oct.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species.
<i>Eriogonum nudum var. decurrens</i> Ben Lomond buckwheat	None/None G5T1/S1 1B.1	Perennial herb. Chaparral, cismontane woodland, lower montane coniferous forest. Ponderosa pine sandhills in Santa Cruz County. Elevations: 165-2625ft. (50-800m.) Blooms Jun-Oct.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Eryngium aristulatum var. hooveri</i> Hoover's button-celery	None/None G5T1/S1 1B.1	Annual/perennial herb. Vernal pools. Alkaline depressions, vernal pools, roadside ditches and other wet places near the coast. Elevations: 10-150ft. (3-45m.) Blooms (Jun)Jul(Aug).	No Potential	No habitat associated with this species occurs within the project area.
<i>Erysimum ammophilum</i> sand-loving wallflower	None/None G2/S2 1B.2	Perennial herb. Chaparral, coastal dunes, coastal scrub. Sandy openings. Elevations: 0-195ft. (0-60m.) Blooms Feb-Jun(Jul-Aug).	No Potential	No habitat associated with this species occurs within the project area.
<i>Erysimum teretifolium</i> Santa Cruz wallflower	FE/SCE G1/S1 1B.1	Perennial herb. Chaparral, lower montane coniferous forest. Inland marine sands (Zayante coarse sand). Elevations: 395-2000ft. (120-610m.) Blooms Mar-Jul.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Fissidens pauperculus</i> minute pocket moss	None/None G3?/S2 1B.2	Moss. North coast coniferous forest. Moss growing on damp soil along the coast. In dry streambeds and on stream banks. Elevations: 35-3360ft. (10-1024m.)	No Potential	No habitat associated with this species occurs within the project area.

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<i>Fritillaria liliacea</i> fragrant fritillary	None/None G2/S2 1B.2	Perennial bulbiferous herb. Cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland. Often on serpentine; various soils reported though usually on clay, in grassland. Elevations: 10-1345ft. (3-410m.) Blooms Feb-Apr.	No Potential	No habitat associated with this species occurs within the project area.
<i>Gilia tenuiflora ssp. arenaria</i> Monterey gilia	FE/SCT G3G4T2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, coastal dunes, coastal scrub. Sandy openings in bare, wind-sheltered areas. Often near dune summit or in the hind dunes; two records from Pleistocene inland dunes. Elevations: 0-150ft. (0-45m.) Blooms Apr-Jun.	No Potential	No habitat associated with this species occurs within the project area.
<i>Hoita strobilina</i> Loma Prieta hoita	None/None G2?/S2? 1B.1	Perennial herb. Chaparral, cismontane woodland, riparian woodland. Serpentine; mesic sites. Elevations: 100-2820ft. (30-860m.) Blooms May-Jul(Aug-Oct).	No Potential	No habitat associated with this species occurs within the project area.
<i>Holocarpha macradenia</i> Santa Cruz tarplant	FT/SCE G1/S1 1B.1	Annual herb. Coastal prairie, coastal scrub, valley and foothill grassland. Light, sandy soil or sandy clay; often with nonnatives. Elevations: 35-720ft. (10-220m.) Blooms Jun-Oct.	Low Potential	there are 10 CNDDDB records of this species within 5 miles of the project, however no suitable habitat for this species is found on site.
<i>Horkelia cuneata var. sericea</i> Kellogg's horkelia	None/None G4T1?/S1? 1B.1	Perennial herb. Chaparral, closed-cone coniferous forest, coastal dunes, coastal scrub. Old dunes, coastal sandhills; openings. Sandy or gravelly soils. Elevations: 35-655ft. (10-200m.) Blooms Apr-Sep.	No Potential	No habitat associated with this species occurs within the project area.
<i>Lasthenia californica ssp. macrantha</i> perennial goldfields	None/None G3T2/S2 1B.2	Perennial herb. Coastal bluff scrub, coastal dunes, coastal scrub. Elevations: 15-1705ft. (5-520m.) Blooms Jan-Nov.	No Potential	No habitat associated with this species occurs within the project area.

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<i>Lessingia micradenia</i> <i>var. glabrata</i> smooth lessingia	None/None G2T2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, valley and foothill grassland. Serpentine; often on roadsides. Elevations: 395-1380ft. (120-420m.) Blooms (Apr-Jun)Jul-Nov.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Malacothamnus arcuatus</i> arcuate bush-mallow	None/None G2Q/S2 1B.2	Perennial deciduous shrub. Chaparral, cismontane woodland. Gravelly alluvium. Elevations: 50-1165ft. (15-355m.) Blooms Apr-Sep.	No Potential	No habitat associated with this species occurs within the project area.
<i>Monardella sinuata ssp. nigrescens</i> northern curly-leaved monardella	None/None G3T2/S2 1B.2	Annual herb. Chaparral, coastal dunes, coastal scrub, lower montane coniferous forest. Sandy soils. Elevations: 0-985ft. (0-300m.) Blooms (Apr)May-Jul(Aug-Sep).	No Potential	No habitat associated with this species occurs within the project area.
<i>Monolopia gracilens</i> woodland woollythreads	None/None G3/S3 1B.2	Annual herb. Broadleafed upland forest, chaparral, cismontane woodland, north coast coniferous forest, valley and foothill grassland. Grassy sites, in openings; sandy to rocky soils. Often seen on serpentine after burns, but may have only weak affinity to serpentine. Elevations: 330-3935ft. (100-1200m.) Blooms (Feb)Mar-Jul.	No	The project is outside of the known elevation range for the species and contains no habitat associated with this species.
<i>Pedicularis dudleyi</i> Dudley's lousewort	None/SCR G2/S2 1B.2	Perennial herb. Chaparral, cismontane woodland, north coast coniferous forest, valley and foothill grassland. Deep shady woods of older coast redwood forests; also in maritime chaparral. Elevations: 195-2955ft. (60-900m.) Blooms Apr-Jun.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years

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<i>Penstemon rattanii</i> var. <i>kleei</i> Santa Cruz Mountains beardtongue	None/None G4T2/S2 1B.2	Perennial herb. Chaparral, lower montane coniferous forest, north coast coniferous forest. Sandy shale slopes; sometimes in the transition between forest and chaparral. Elevations: 1310-3610ft. (400-1100m.) Blooms May-Jun.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Pentachaeta bellidiflora</i> <i>white-rayed</i> pentachaeta	FE/SCE G1/S1 1B.1	Annual herb. Cismontane woodland, valley and foothill grassland. Open dry rocky slopes and grassy areas, often on soils derived from serpentine bedrock. Elevations: 115-2035ft. (35-620m.) Blooms Mar-May.	No Potential	No habitat associated with this species occurs within the project area.
<i>Piperia yadonii</i> Yadon's rein orchid	FE/None G1/S1 1B.1	Perennial herb. Chaparral, closed-cone coniferous forest, coastal bluff scrub. On sandstone and sandy soil, but poorly drained and often dry. Elevations: 35-1675ft. (10-510m.) Blooms (Feb)May-Aug.	No Potential	No habitat associated with this species occurs within the project area.
<i>Plagiobothrys</i> <i>chorisianus</i> var. <i>chorisianus</i> Choris' popcornflower	None/None G3T1Q/S1 1B.2	Annual herb. Chaparral, coastal prairie, coastal scrub. Mesic sites. Elevations: 10-525ft. (3-160m.) Blooms Mar-Jun.	No Potential	No habitat associated with this species occurs within the project area.
<i>Plagiobothrys</i> <i>diffusus</i> <i>San Francisco</i> popcornflower	None/SCE G1Q/S1 1B.1	Annual herb. Coastal prairie, valley and foothill grassland. Historically from grassy slopes with marine influence. Elevations: 195-1180ft. (60-360m.) Blooms Mar-Jun.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years

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<i>Polygonum hickmanii</i> Scotts Valley polygonum	FE/SCE G1/S1 1B.1	Annual herb. Valley and foothill grassland. Purisima sandstone or mudstone with a thin soil layer; vernal moist due to runoff. Elevations: 690-820ft. (210-250m.) Blooms May-Aug.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Rosa pinetorum</i> pine rose	None/None G2/S2 1B.2	Perennial shrub. Cismontane woodland, closed-cone coniferous forest. Elevations: 5-3100ft. (2-945m.) Blooms May-Jul.	No Potential	No habitat associated with this species occurs within the project area.
<i>Streptanthus albidus</i> <i>ssp. peramoenus</i> most beautiful jewelflower	None/None G2T2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, valley and foothill grassland. Serpentine outcrops, on ridges and slopes. Elevations: 310-3280ft. (95-1000m.) Blooms (Mar)Apr-Sep(Oct).	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Trifolium</i> <i>buckwestiorum</i> Santa Cruz clover	None/None G2/S2 1B.1	Annual herb. Broadleafed upland forest, cismontane woodland, coastal prairie. Moist grassland. Gravelly margins. Elevations: 345-2000ft. (105-610m.) Blooms Apr-Oct.	No Potential	The project is outside of the known elevation range for the species and contains no habitat associated with this species. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Trifolium hydrophilum</i> saline clover	None/None G2/S2 1B.2	Annual herb. Marshes and swamps, valley and foothill grassland, vernal pools. Mesic, alkaline sites. Elevations: 0-985ft. (0-300m.) Blooms Apr-Jun.	No Potential	No habitat associated with this species occurs within the project area.

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<i>Trifolium polyodon</i> Pacific Grove clover	None/SCR G1/S1 1B.1	Annual herb. Closed-cone coniferous forest, coastal prairie, meadows and seeps, valley and foothill grassland. Along small springs and seeps in grassy openings. Elevations: 15-1395ft. (5- 425m.) Blooms Apr-Jun(Jul).	No Potential	No habitat associated with this species occurs within the project area.

Regional Vicinity refers to within a 9-quad search radius of site.

Status (Federal/State)

FE = Federal Endangered
 FT = Federal Threatened
 FPE = Federal Proposed Endangered
 FPT = Federal Proposed Threatened
 FD = Federal Delisted
 FC = Federal Candidate
 SE = State Endangered
 ST = State Threatened
 SCE = State Candidate Endangered
 SCT = State Candidate Threatened
 SR = State Rare
 SD = State Delisted
 SSC = CDFW Species of Special Concern
 FP = CDFW Fully Protected
 WL = CDFW Watch List

CRPR (CNPS California Rare Plant Rank)

1A = Presumed extirpated in California, and rare or extinct elsewhere
 1B = Rare, Threatened, or Endangered in California and elsewhere
 2A = Presumed extirpated in California, but common elsewhere
 2B = Rare, Threatened, or Endangered in California, but more common elsewhere
 3 = Need more information (Review List)
 4 = Limited Distribution (Watch List)

CRPR Threat Code Extension

.1 = Seriously endangered in California (>80% of occurrences threatened/high degree and immediacy of threat)
 .2 = Moderately threatened in California (20-80% of occurrences threatened/moderate degree and immediacy of threat)
 .3 = Not very endangered in California (<20% of occurrences threatened/low degree and immediacy of threat)

Other Statuses

G1 or S1 Critically Imperiled Globally or Subnationally (state)
 G2 or S2 Imperiled Globally or Subnationally (state)
 G3 or S3 Vulnerable to extirpation or extinction Globally or Subnationally (state)
 G4/5 or S4/5 Apparently secure, common and abundant
 GH or SH Possibly Extirpated – missing; known from only historical occurrences but still some hope of rediscovery

Additional notations may be provided as follows

T – Intraspecific Taxon (subspecies, varieties, and other designations below the level of species)
 Q – Questionable taxonomy that may reduce conservation priority
 ? – Inexact numeric rank

Special Status Wildlife Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Invertebrates				
<i>Cicindela ohlone</i> <i>Ohlone tiger beetle</i>	FE/None G1/S1	Remnant native grasslands with California oatgrass and purple needlegrass in Santa Cruz County. Substrate is poorly-drained clay or sandy clay soil over bedrock of Santa Cruz mudstone.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Euphilotes enoptes smithi</i> <i>Smith's blue butterfly</i>	FE/None G5T1T2/S1	Most commonly associated with coastal dunes and coastal sage scrub plant communities in Monterey and Santa Cruz counties. Hostplant: Eriogonum latifolium and Eriogonum parvifolium are utilized as both larval and adult foodplants.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Euphydryas editha bayensis</i> <i>Bay checkerspot butterfly</i>	FT/None G5T1/S1	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay. Plantago erecta is the primary host plant; Orthocarpus densiflorus and O. purpurscens are the secondary host plants.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Bombus occidentalis</i> <i>western bumble bee</i>	None/None G2G3/S1	Once common and widespread, species has declined precipitously from central CA to southern B.C., perhaps from disease. .	No Potential	3 CNDDDB occurrence for this species occurred within 5 miles of the project site, but no occurrences have been found in the last 25 years.
<i>Bombus crotchii</i> <i>Crotch bumble bee</i>	None/None G2/S1S2	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	No Potential	1 CNDDDB occurrence for this species occurred within 5 miles of the project site, but no occurrences have been found in the last 25 years.
<i>Trimerotropis infantilis</i> <i>Zayante band-winged grasshopper</i>	FE/None G1/S1	Isolated sandstone deposits in the Santa Cruz Mountains (the Zayante Sand Hills ecosystem). Mostly on sand parkland habitat but also in areas with well-developed ground cover and in sparse chaparral with grass.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
Fish				
<i>Eucyclogobius newberryi</i> <i>tidewater goby</i>	FE/None G3/S3	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County to the mouth of the Smith River. Found in shallow	No Potential	No suitable habitat for this species occurs within the project area.

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		lagoons and lower stream reaches, they need fairly still but not stagnant water and high oxygen levels.		
<i>Hesperoleucus venustus subditus</i> <i>southern coastal roach</i>	None/None GNRTNR/S2 SSC	Found in the drainages of Tomales Bay and northern San Francisco Bay in the north, and drainages of Monterey Bay in the south. .	No Potential	No suitable habitat for this species occurs within the project area.
<i>Lavinia exilicauda harengus</i> <i>Monterey hitch</i>	None/None G4T2T4/S3 SSC		No Potential	No suitable habitat for this species occurs within the project area.
<i>Oncorhynchus kisutch</i> pop. 4 <i>coho salmon - central California coast ESU</i>	FE/SE G5T2T3Q/S2	Federal listing = pops between Punta Gorda and San Lorenzo River. State listing = pops south of Punta Gorda. Require beds of loose, silt-free, coarse gravel for spawning. Also need cover, cool water and sufficient dissolved oxygen.	No Potential	No suitable habitat for this species occurs within the project area.
<i>Oncorhynchus mykiss irideus</i> pop. 8 <i>steelhead - central California coast DPS</i>	FT/None G5T2T3Q/S2S3	DPS includes all naturally spawned populations of steelhead (and their progeny) in streams from the Russian River to Aptos Creek, Santa Cruz County, California (inclusive). Also includes the drainages of San Francisco and San Pablo Bays. .	No Potential	No suitable habitat for this species occurs within the project area.
<i>Oncorhynchus mykiss irideus</i> pop. 9 <i>steelhead - south-central California coast DPS</i>	FT/None G5T2Q/S2	Federal listing refers to runs in coastal basins from the Pajaro River south to, but not including, the Santa Maria River. .	No Potential	No suitable habitat for this species occurs within the project area.
<i>Spirinchus thaleichthys longfin smelt</i>	FC/ST G5/S1	Euryhaline, nektonic and anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	No Potential	No suitable habitat for this species occurs within the project area.
<i>Thaleichthys pacificus eulachon</i>	FT/None G5/S2	Found in Klamath River, Mad River, Redwood Creek, and in small numbers in Smith River and Humboldt Bay tributaries. Spawn in lower reaches of	No Potential	No suitable habitat for this species occurs within the project area.

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		coastal rivers with moderate water velocities and bottom of pea-sized gravel, sand, and woody debris.		
Reptiles				
<i>Anniella pulchra</i> Northern California legless lizard	None/None G3/S3 SSC	Sandy or loose loamy soils under sparse vegetation. Soil moisture is essential. They prefer soils with a high moisture content.	Low Potential	there are 4 CNDDDB records of this species within 5 miles of the project site, however no suitable habitat for this species is present within the project site
<i>Emys marmorata</i> western pond turtle	None/None G3G4/S3 SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Low Potential	there are 6 CNDDDB records of this species within 5 miles of the project site, however no suitable habitat for this species is present within the project site.
<i>Phrynosoma</i> <i>blainvillii</i> coast horned lizard	None/None G3G4/S3S4 SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
Amphibians				
<i>Ambystoma</i> <i>californiense</i> pop. 1 California tiger salamander - central California DPS	FT/ST G2G3T3/S3 WL	Lives in vacant or mammal-occupied burrows throughout most of the year; in grassland, savanna, or open woodland habitats. Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	No Potential	This species has been observed within 5 miles of the project site, however no suitable habitat for this species is present within the project site.
<i>Ambystoma</i> <i>macrodictylum</i> <i>croceum</i> Santa Cruz long- toed salamander	FE/SE G5T1T2/S1S2 FP	Wet meadows near sea level in a few restricted locales in Santa Cruz and Monterey counties. Aquatic larvae prefer shallow (<12 inches) water, using clumps of vegetation or debris for cover. Adults use mammal burrows.	No Potential	This species has been observed within 5 miles of the project site, however no suitable habitat for this species is present within the project site.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
<i>Aneides niger</i> <i>Santa Cruz black salamander</i>	None/None G3/S3 SSC	Mixed deciduous and coniferous woodlands and coastal grasslands in San Mateo, Santa Cruz, and Santa Clara counties. Adults found under rocks, talus, and damp woody debris.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Dicamptodon ensatus</i> <i>California giant salamander</i>	None/None G3/S2S3 SSC	Known from wet coastal forests near streams and seeps from Mendocino County south to Monterey County, and east to Napa County. 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.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Rana boylei</i> pop. 4 <i>foothill yellow-legged frog - central coast DPS</i>	FPT/SE G3TNRQ/S2	San Francisco Peninsula and Diablo Range south of San Francisco Bay Estuary, and south through the Santa Cruz and Gabilan Mountains east of the Salinas River in the southern inner Coast Ranges. Partly shaded shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying and at least 15 weeks to attain metamorphosis.	No Potential	This species has been observed within 5 miles of the project site, however no suitable habitat for this species is present within the project site.
<i>Rana draytonii</i> <i>California red-legged frog</i>	FT/None G2G3/S2S3 SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Low Potential	there are many CNDDB records of this species within 5 miles of the project site, however no suitable habitat for this species is present within the project site
Birds				
<i>Accipiter cooperii</i> <i>Cooper's hawk</i>	None/None G5/S4 WL	Woodland, chiefly of open, interrupted or marginal type. Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	Low Potential	This species has been observed within 5 miles of the project site, however no suitable habitat for this species is present within the project site.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
<i>Agelaius tricolor</i> tricolored blackbird	None/ST G1G2/S1S2 SSC	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Low Potential	This species has been observed 4 times within 5 miles of the project site, however no suitable habitat for this species is present within the project site.
<i>Aquila chrysaetos</i> golden eagle	None/None G5/S3 FP WL	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Low Potential	No nesting habitat occurs on site, however this species is known to occasionally move through the project site while foraging or migrating.
<i>Asio flammeus</i> short-eared owl	None/None G5/S3 SSC	Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields. Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.	No Potential	This species has been observed within 5 miles of the project site, however no suitable habitat for this species is present within the project site.
<i>Athene cunicularia</i> burrowing owl	None/None G4/S3 SSC	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	No Potential	This species has been observed within 5 miles of the project site, however no suitable habitat for this species is present within the project site.
<i>Charadrius nivosus nivosus</i> western snowy plover	FT/None G3T3/S2 SSC	Sandy beaches, salt pond levees and shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	No Potential	No suitable habitat for this species occurs within the project area.
<i>Coturnicops noveboracensis</i> yellow rail	None/None G4/S1S2 SSC	Summer resident in eastern Sierra Nevada in Mono County. Freshwater marshlands.	No Potential	No suitable habitat for this species occurs within the project area.
<i>Elanus leucurus</i> white-tailed kite	None/None G5/S3S4 FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Low Potential	No nesting habitat occurs on site, however this species is known to occasionally move through the project site while foraging or migrating.
<i>Falco peregrinus anatum</i> American peregrine falcon	FD/SD G4T4/S3S4 FP	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists	Low Potential	No nesting habitat occurs on site, however this species is known to occasionally move through

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
		of a scrape or a depression or ledge in an open site.		the project site while foraging or migrating.
<i>Pandion haliaetus</i> <i>osprey</i>	None/None G5/S4 WL	Ocean shore, bays, freshwater lakes, and larger streams. Large nests built in tree-tops within 15 miles of a good fish-producing body of water.	Low Potential	No nesting habitat occurs on site, however this species is known to occasionally move through the project site while foraging or migrating.
<i>Rallus obsoletus</i> <i>obsoletus</i> <i>California</i> <i>Ridgway's rail</i>	FE/SE G3T1/S1 FP	Salt water and brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.	No Potential	No suitable habitat for this species occurs within the project area.
<i>Riparia riparia</i> <i>bank swallow</i>	None/ST G5/S2	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	No Potential	No suitable habitat for this species occurs within the project area.
Mammals				
<i>Antrozous</i> <i>pallidus</i> pallid bat	"None/None G4/S3 SSC"	Found in a variety of habitats including deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts in crevices of rock outcrops, caves, mine tunnels, buildings, bridges, and hollows of live and dead trees which must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	No Potential	Some suitable roosting habitat present within the project site, however, human and traffic disturbance lower probability of species presence. No CNDDDB occurrences for the species are present within a 5-mile range.
<i>Corynorhinus</i> <i>townsendii</i> Townsend's big-eared bat	"None/None G4/S2 SSC"	Occurs throughout California in a wide variety of habitats. Most common in mesic sites, typically coniferous or deciduous forests. Roosts in the open, hanging from walls & ceilings in caves, lava tubes, bridges, and buildings. This species is extremely sensitive to human disturbance.	No Potential	Some suitable roosting habitat present within the project site, however, human and traffic disturbance drastically lower probability of species presence. No CNDDDB occurrences for the species are present within a 5-mile range.
<i>Neotoma fuscipes</i> <i>annectens</i> <i>San Francisco</i>	None/None G5T2T3/S2S3 SSC	Typically found in forest habitats with moderate to dense understory. Can occur in	No Potential	No suitable habitat for this species occurs within the project area. No known

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<i>dusky-footed woodrat</i>		chaparral, riparian woodlands, and coniferous forests, particularly redwood. Builds middens out of grasses, leaves, and woody debris. This subspecies is found only in the San Francisco Bay region.		occurrences have been found within 5 miles of the project site within the last 10 years
<i>Sorex ornatus salarius</i> <i>Monterey shrew</i>	None/None G5T1T2/S1S2 SSC	Riparian, wetland and upland areas in the vicinity of the Salinas River delta. Prefers moist microhabitats. feeds on insects and other invertebrates found under logs, rocks and litter.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years
<i>Taxidea taxus</i> American badger	"None/None G5/S3 SSC"	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	No Potential	No suitable habitat for this species occurs within the project area. No known occurrences have been found within 5 miles of the project site within the last 10 years

Regional Vicinity refers to within a 9-quad search radius of site.

Status (Federal/State)

FE = Federal Endangered
 FT = Federal Threatened
 FPE = Federal Proposed Endangered
 FPT = Federal Proposed Threatened
 FD = Federal Delisted
 FC = Federal Candidate
 SE = State Endangered
 ST = State Threatened
 SCE = State Candidate Endangered
 SCT = State Candidate Threatened
 SR = State Rare
 SD = State Delisted
 SSC = CDFW Species of Special Concern
 FP = CDFW Fully Protected
 WL = CDFW Watch List

CRPR (CNPS California Rare Plant Rank)

1A = Presumed extirpated in California, and rare or extinct elsewhere
 1B = Rare, Threatened, or Endangered in California and elsewhere
 2A = Presumed extirpated in California, but common elsewhere
 2B = Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension

.1 = Seriously endangered in California (>80% of occurrences threatened/high degree and immediacy of threat)
 .2 = Moderately threatened in California (20-80% of occurrences threatened/moderate degree and immediacy of threat)
 .3 = Not very endangered in California (<20% of occurrences threatened/low degree and immediacy of threat)

Other Statuses

G1 or S1 Critically Imperiled Globally or Subnationally (state)
 G2 or S2 Imperiled Globally or Subnationally (state)
 G3 or S3 Vulnerable to extirpation or extinction Globally or Subnationally (state)
 G4/5 or S4/5 Apparently secure, common and abundant
 GH or SH Possibly Extirpated – missing; known from only historical occurrences but still some hope of rediscovery

Additional notations may be provided as follows

T – Intraspecific Taxon (subspecies, varieties, and other designations below the level of species)
 Q – Questionable taxonomy that may reduce conservation priority
 ? – Inexact numeric rank

