

**Appendix F**  
**Sensitive Biological Resources**  
**in the Project Area Vicinity**

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**Table F-1  
Sensitive Animals Reported in the Vicinity of the Project Area**

Species Name	Status <sup>(1)</sup>				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG <sup>(2)</sup>	CNPS <sup>(3)</sup>				
<b>Invertebrates</b>								
Mimic Tryonia (California brackishwater snail) <i>Tryonia imitator</i>	None	None	None	N/A	Inhabits coastal lagoons, estuaries, and salt marshes where it lives in permanently flooded areas. Reported from Lake Merritt but population probably extirpated.	No	No	None
<b>Fish</b>								
Tidewater Goby <i>Eucuclogobius newberryi</i>	Endangered	None	(Special Concern)	N/A	Shallow lagoons and lower stream reaches influenced by tidal action along the California Coast. Reported from Lake Merritt.	No	No	None
<b>Amphibians and Reptiles</b>								
California Tiger Salamander <i>Ambystoma californiense</i>	Candidate	None	(Special Concern) Protected		Annual grasslands and understory of hardwood habitats. Breeding typically associated with temporary pools and ponds. This population has been extirpated (Jennings and Hayes 1994).	No	No	None
<b>Birds</b>								
Double Crested Cormorant (rookeries) <i>Phalacrocorax auritus</i>	None	None	(Special Concern)	N/A	Status applies to rookeries only. This is a colonial nester that uses cliffs and trees along lake margins. Report is for a colony on the San Francisco Bay Bridge.	No	No	None

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California Black Rail <i>Laterallus jamaicensis coturniculus</i>	(Special Concern)	Threatened	Fully Protected	N/A	Found in tidal salt marshes where pickleweed is the primary vegetation. Also found in fresh water and brackish marshes at low elevations. Reported from the Emeryville Crescent Marsh.	No	No	None
Northern Harrier (nesting) <i>Circus cyaneus</i>	None	None	(Special Concern)	N/A	Nests on the ground typically associated with shrubby vegetation. Often found foraging over open grasslands and marshes.	No	No	None
California Least Tern <i>Sterna antillarum browni</i>	Endangered	Endangered	None	N/A	Nests on bare or almost bare flat surfaces, sandy beaches, alkali flats etc between San Francisco Bay and Baja California. Reported from Alameda Naval Air Station.	No	No	None
White-tailed Kite <i>Elanus leucurus</i>	(Special Concern)	None	Fully Protected	N/A	Grasslands with scattered dense-topped trees for nesting.	No	No	None
California Clapper Rail <i>Rallus longirostris obsoletus</i>	Endangered	Endangered	Fully Protected		Saltwater and brackish marshes often crossed by tidal sloughs in the San Francisco Bay. Closely associated with pickleweed. Reported from the Emeryville Crescent Marsh	No	No	None
<b>Mammals</b>								
Salt-marsh Harvest Mouse <i>Reithrodontomys raviventris</i>	Endangered	Endangered	Fully Protected	N/A	Found only in emergent salt marsh habitats of San Francisco Bay where pickleweed is the primary vegetation. Reported from the Emeryville Crescent Marsh	No	No	None

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*Sources:*

California Department of Fish and Game, 2003. CNDDDB (California Natural Diversity Data Base), Commercial version, information dated 05/05/2003.

Jennings, M.R. and M.P. Hayes, 1994. Amphibian and reptile species of Special Concern in California. Final Report, Inland Fisheries Division, California Department of Fish and Game.

Sawyer J.O. and T. Keeler-Wolf, 1995. A manual of California vegetation, California Native Plant Society.

Williams, D.F., Mammal species of Special Concern in California. 1986 Administrative Report 86-1, Wildlife Management Division, California Department of Fish and Game.

*Notes*

- [1] Endangered and threatened are a species status under the California or Federal Endangered Species Act, Federal species of concern and candidate species do not receive any statutory protection under the Federal ESA.
- [2] California Department of Fish and Game. Species designated as Species of Concern by CDFG are to be mitigated for under CEQA. A protected designation indicates that these species are fully protected under the Fish and Game Code and cannot be taken or possessed without a permit from the Fish and Game Commission or CDFG.
- [3] California Native Plant Society. Species on List 1A are believed to be extinct within California. Species on List 1B are rare or endangered in California and elsewhere in their range.

Element Rankings (Sawyer and Keeler-Wolf 1995):

S2.1 Very Threatened in California

S3.1 Very Threatened in California

S3.2 Threatened in California

**Table F-2  
Sensitive Plants and Habitats Reported in the Vicinity of the Project Area**

Species Name	Status <sup>(1)</sup>				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG <sup>(2)</sup>	CNPS <sup>(3)</sup>				
<b>Plants</b>								
Bent-flowered Fiddleneck <i>Amsinckia lunaris</i>	(Special Concern)	None	None	1B	Cismontane woodland, valley and foothill grassland. Collected in 1883.	No	No	None
Alkali Milk-vetch <i>Astragalus tener var tener</i>	None	None	None	1B	Alkali flats in annual grasslands, playas, or vernal pools. Known from three collections between 1882 and 1895.	No	No	None
Robust Spineflower <i>Chorizanthe robusta var robusta</i>	Endangered	None	None	1B	Sandy terraces, bluffs, and loose sand of coastal dunes, coastal scrub and foothill woodlands. Thought to be extirpated, last observed in 1891.	No	No	None
Point Reyes Bird's-beak <i>Cordylanthus maritimus ssp palustris</i>	(Special Concern)	None	None	1B	Coastal salt marsh. Reported in 1880 and 1891 but not found in 1990 surveys. Believed to be extirpated.	No	No	None
Round-leaved Filaree <i>Erodium macrophyllum</i>	None	None	None	2	Cismontane woodland and valley and foothill grassland. Typically over clay soils. Collected in 1891 and 1894 from non-specific locations in Oakland and Berkeley.	No	No	None
Water Sack (=saline) Clover <i>Trifolium depauperatum var hydrophilum</i>	None	None	None	1B	Marshes, swamps, valley/foothill grasslands, and vernal pools. Last collected in 1883.	No	No	None

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Beach Layia <i>Layia carnosa</i>	Endangered	Endangered	None	1B	Typically found on sparsely vegetated semi-stabilized dunes. Reported from San Francisco in 1904.	No	No	None
Rose Linanthus <i>Linanthus roseceua</i>	(Special Concern)	None	None	1B	Coastal bluff scrub. Last observed in 1885 somewhere in San Francisco.	No	No	None
Kellogg's Horkelia <i>Horkelia cuneata</i> ssp <i>sericea</i>	(Special Concern)	None	None	1B	Closed-cone coniferous forest, coastal scrub, chaparral, old dunes. Reported as declining in 1887. Not found in 1980s or 1990s.	No	No	None
Santa Cruz Tarplant <i>Holocarpha macradenia</i>	Threatened	Endangered	None	1B	Coastal praries, valley and foothill grasslands over light sandy soil or sandy clay. Extirpated following 1916 collection.	No	No	None
San Francisco Bay Spineflower <i>Chorizanthe cuspidata</i> var <i>cuspidata</i>	(Special Concern)	None	None	1B	Found on sandy slopes and terraces of coastal scrub, dune, and prairie habitats. Collected west of Lake Merritt in 1881.	No	No	None
<b>Habitats</b>								
Northern Coastal Salt Marsh	None	S3.2			Emeryville Crescent Marsh	No	No	None

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- [3] California Native Plant Society. Species on List 1A are believed to be extinct within California. Species on List 1B are rare or endangered in California and elsewhere in their range.

Element Rankings (Sawyer and Keeler-Wolf 1995):

- S1.2 Fewer than 6 viable occurrences and/or less than 2,000 acres; Threatened in California
- S2.1 6-20 viable occurrences and/or 2,000-10,000 acres; Very Threatened in California
- S2.2 6-20 viable occurrences and/or 2,000-10,000 acres; Threatened in California
- S3.1 21-100 viable occurrences and/or 10,000-50,000 acres; Very Threatened in California
- S3.2 21-100 viable occurrences and/or 10,000-50,000 acres; Threatened in California