

APPENDICES



APPENDIX A

SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE PROJECT AREA

**APPENDIX A
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING
IN THE PROJECT AREA**

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements
SPECIES LISTED OR PROPOSED FOR LISTING		
<i>Fish</i>		
Delta smelt <i>Hypomesus transpacificus</i>	FT/CT	Restricted to the Sacramento-San Joaquin Delta, including Suisun and San Pablo Bays and the Carquinez Strait
Steelhead-Central Valley ESU <i>Oncorhynchus mykiss</i>	FT/--	Spawn in the Sacramento and San Joaquin Rivers and their tributaries, migrate through San Francisco and Suisun Bays, as well as the Delta region
Chinook salmon—Central Valley spring-run <i>Oncorhynchus tshawytscha</i> Critical Habitat designated	FT/CT	Spawning and rearing restricted to Sacramento River basin, migrate through San Francisco Bay and Sacramento-San Joaquin Delta
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	FT/CSC	Slow moving rivers, dead end sloughs, require flooded vegetation for spawning and foraging for young
<i>Amphibians</i>		
California red-legged frog <i>Rana aurora draytonii</i>	FT/CSC	Breed in stock ponds, pools, and slow-moving streams with emergent vegetation for escape cover and egg attachment, where water is seasonal often utilizes mammal burrows in upland habitat for aestivation
<i>Birds</i>		
Swainson's hawk <i>Buteo swainsoni</i>	FSC/CT	Breeds in riparian areas and oak savannah, requires adjacent foraging habitat such as grasslands or fields supporting rodent populations
Bald eagle <i>Haliaeetus leucocephalus</i>	FT/CE	Nests and forages on inland lakes, reservoirs, and rivers; winter foraging at lakes and along major rivers.
California black rail <i>Laterallus jamaicensis coturniculus</i>	FSC/CT	Nests and forages in tidal emergent wetland with pickleweed and cordgrass
California clapper rail <i>Rallus longirostris obsoletus</i>	FE/CE	Nests and forages in emergent wetlands with pickleweed, cordgrass, and bulrush
Bank swallow <i>Riparia riparia</i>	--/CT	Nests primarily in riparian and other lowland habitat, requires vertical banks or cliffs with fine textured or sandy soils near water
California least tern <i>Sterna antillarum browni</i>	FE/CE	Colonial breeder on bare or sparsely vegetated flat substrates including sand beaches, alkali flats, land fills, or paved areas

APPENDIX A (continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING
IN THE PROJECT AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements
SPECIES LISTED OR PROPOSED FOR LISTING		
<i>Mammals</i>		
Salt marsh harvest mouse <i>Reithrodontomys raviventris</i>	FE/CE	Saline emergent marsh with dense pickleweed
<i>Plants</i>		
Soft bird's beak <i>Cordylanthus mollis</i> ssp. <i>mollis</i>	FE/CR/List 1B	Coastal salt marsh
Mason's lilaepsis <i>Lilaeopsis masonii</i>	FSC/CR/List 1B	Brackish or freshwater marshes and swamps, riparian scrub
California seablite <i>Suaeda californica</i>	FE/--/List 1B	Coastal salt marshes and swamps
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN		
<i>Invertebrates</i>		
California linderiella <i>Linderiella occidentalis</i>	FSC/--	Seasonal pools in intact grasslands where alluvial soils are underlaid by hardpan or in sandstone depressions
<i>Fish</i>		
Sacramento perch <i>Archoplites interruptus</i>	FSC/CSC	Slow moving sloughs, streams, rivers, and lakes
Green sturgeon <i>Acipenser medirostris</i>	FSC/CSC	Estuaries, lower reaches of large rivers, and salt or brackish water off river mouths, ascends far up Trinity and Klamath rivers, CA
River lamprey <i>Lampetra ayresi</i>	FSC/CSC	Pacific Ocean and estuaries; spawning in coastal streams from Alaska to San Francisco Bay
Pacific lamprey <i>Lampetra tridentata</i>	FSC/--	Pacific Ocean and estuaries; spawning in coastal streams from Alaska to Baja California
Longfin smelt <i>Spirinchus thaleichthys</i>	FSC/--	Nearshore; bays and estuaries, ascends coastal streams from October to December to spawn
<i>Reptiles</i>		
Northwestern pond turtle <i>Clemmys marmorata marmorata</i>	FSC/CSC	Freshwater ponds and slow streams, marshes, rivers, and irrigation ditches with upland sandy soils for laying eggs
<i>Birds</i>		
Cooper's hawk <i>Accipiter cooperi</i>	--/CSC	Nests in riparian growths of deciduous trees and live oak woodlands

APPENDIX A (continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING
IN THE PROJECT AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN		
<i>Birds (cont.)</i>		
Sharp-shinned hawk <i>Accipiter striatus</i>	--/CSC	Nests in riparian growths of deciduous trees and live oaks
Tricolored blackbird <i>Agelaius tricolor</i>	FSC/CSC	Riparian thickets and emergent vegetation near open water
Grasshopper sparrow <i>Ammodramus savannarum</i>	FSC/--	Pastures, grasslands, old fields
Golden eagle <i>Aquila chrysaetos</i>	--/CSC	Open hills with grassland, open scrub, adequate prey base, large trees or cliffs for nesting
Short-eared owl <i>Asio flammeus</i>	FSC/CSC	Fresh water and salt marshes and swamps, lowland meadows, irrigated fields
Western burrowing owl <i>Athene cunicularia hypugea</i>	FSC/CSC	Nests in mammal burrows in open, sloping grasslands
Black tern <i>Chlidonias niger</i>	FSC/CSC	Freshwater lakes, marshes, ponds, and flooded agricultural fields
Northern harrier <i>Circus cyaneus</i>	--/CSC	Mostly nests in emergent vegetation, wet meadows or near rivers and lakes, but may nest in grasslands away from water.
Yellow warbler <i>Dendroica petechia brewsteri</i>	--/CSC	Prefers riparian habitat with willows, cottonwoods, sycamores, or alders for nesting and foraging
White-tailed kite <i>Elanus leucurus</i>	FSC/--	Nests near wet meadows and open grasslands dense oak, willow or other large tree stands.
California horned lark <i>Eremophila alpestris actia</i>	FSC/CSC	Short grass prairie, fallow grain fields, open areas with short vegetation
Saltmarsh common yellowthroat <i>Geothlypis trichas sinuosa</i>	FSC/CSC	Saline and freshwater marshes
Suisun song sparrow <i>Melospiza melodia maxillaris</i>	FSC/CSC	Brackish water marshes and sloughs with cattails, tules, and pickleweed
Long-billed curlew <i>Numenius americanus</i>	FSC/CSC	Lake beaches, nests in both dry and wet uplands
<i>Mammals</i>		
San Pablo vole <i>Microtus californicus sanpabloensis</i>	--/CSC	Salt-marshes
Suisun shrew <i>Sorex ornatus sinuosus</i>	FSC/CSC	Tidal marshes, require dense low cover above the mean tide line for nesting and foraging

APPENDIX A (continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING
IN THE PROJECT AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN		
<i>Mammals (cont.)</i>		
Salt marsh wandering shrew <i>Sorex vagrans halicoetes</i>	FSC/CSC	Salt-marshes
<i>Plants</i>		
Suisun marsh aster <i>Aster lentus</i>	FSC/--/List 1B	Brackish and freshwater marshes, sloughs
Mt. Diablo fairy lantern <i>Calochortus pulchellus</i>	--/--/List 1B	Chaparral, cismontane woodland, riparian woodland, valley and foothill grassland
Point Reyes bird's beak <i>Cordylanthus maritimus ssp. palustris</i>	FSC/--/List 1B	Coastal salt marsh
Diablo helianthella <i>Helianthella castanea</i>	FSC/--/List 1B	Openings in chaparral and broadleaved upland forest
Rose-mallow <i>Hibiscus lasiocarpus</i>	--/--/List 2	Freshwater marshes and swamps, sloughs
Carquinez goldenbush <i>Isocoma arguta</i>	FSC/--/List 1B	Valley and foothill grassland, alkaline soils, flats
Delta tule pea <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	FSC/--/List 1B	Freshwater and brackish marshes and swamps, usually on marsh and slough edges
Delta mudwort <i>Limosella subulata</i>	--/--/List 2	On mud banks in freshwater and brackish marshes and swamps, riparian scrub
Robust monardella <i>Monardella villosa ssp. globosa</i>	FSC/--/List 1B	Cismontane woodland, openings in chaparral
Hairless popcorn-flower <i>Plagiobothrys glaber</i>	FSC/--/List 1A	Coastal salt-marsh, alkaline flats, meadows, and seeps
Slender-leaved pondweed <i>Potamogeton filiformis</i>	--/--/List 2	Shallow areas in freshwater marshes and swamps
Eel-grass pondweed <i>Potamogeton zosteriformis</i>	--/--/List 2	Freshwater swamps and marshes
Saline clover <i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	FSC/--/List 1B	Marshes and swamps, mesic alkaline areas in valley and foothill grassland

APPENDIX A (continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING
IN THE PROJECT AREA

SENSITIVE PLANT COMMUNITIES

<u>Name</u>	<u>Global Rank</u>	<u>State Rank</u>
Coastal and valley freshwater marsh	G3	S2.1
Coastal brackish marsh	G2	S2.1
Northern coastal salt marsh	G3	S3.2

Status codes:

FEDERAL: (U.S. Fish and Wildlife Service)

FE = Listed as Endangered (in danger of extinction) by the Federal Government

FT = Listed as Threatened (likely to become Endangered within the foreseeable future) by the Federal Government.

FP = Proposed for Listing as Endangered or Threatened

FC = Candidate to become a *proposed* species

FSC = Federal Species of Concern

STATE: (California Department of Fish and Game)

CE = Listed as Endangered by the State of California

CT = Listed as Threatened by the State of California

CR = Listed as Rare by the State of California (plants only)

CSC = California Species of Special Concern

3503.5=Protection for nesting species of Falconiformes (hawks) and Strigiformes (owls)

California Native Plant Society

List 1A=Plants presumed extinct in California

List 1B=Plants rare, Threatened, or Endangered in California and elsewhere

List 2= Plants rare, Threatened, or Endangered in California but more common elsewhere

List 3= Plants about which more information is needed

List 4= Plants of limited distribution

SOURCE: CNDDDB (2004)