

**Table C-2. Federally Listed Endangered, Threatened,
Proposed, and Candidate Species that may Occur in the Study Area**

Species Name	Preferred Habitat	Likelihood of Occurrence	Status Federal/State/CNPS
Mammals			
<i>Sylvilagus bachmani riparius</i> Riparian brush rabbit	Dense, brushy areas of riparian forests above flood level	P	E/E
<i>Neotoma fuscipes riparia</i> Riparian (San Joaquin Valley) woodrat	Riparian habitats where trees and brush are available for cover and nesting	P	E/CSC
<i>Vulpes macrotis mutica</i> San Joaquin kit fox	Valley needle grassland, valley wildrye grassland, non-native grassland, and wildflower field	P	E/T/--
Birds			
<i>Buteo swainsoni</i> (Nesting) Swainsons hawk	Nests in oak or cottonwoods in or near riparian habitats; forages in grasslands, irrigated pastures, and grain fields	C	--/T
<i>Charadrius montanus</i> Mountain plover	Winter resident in valley and foothill grassland and cropland including valley needle grassland, valley wildrye grassland, non-native grassland, and wildflower field. Prefers short vegetation, bare ground, and flat topography	P	PT/--/--
<i>Coccyzus americanus occidentalis</i> (nesting) Western yellow-billed cuckoo	Great valley cottonwood riparian forest; great valley mixed forest; and great valley, valley oak riparian forest	P	C/E/--
<i>Haliaeetus leucocephalus</i> Bald eagle	Riverine and riparian that may include great valley cottonwood riparian forest; great valley mixed forest; and great valley, valley oak riparian forest. Prefers large bodies of water or free-flowing rivers with abundant fish and adjacent snags or other perches	P	T/--/--
<i>Riparian riparia</i> (nesting) Bank Swallow	Nests in bluffs or banks, usually adjacent to water, where the soil consists of sand or sandy loam to allow digging	P	--/T
Reptiles			
<i>Thamnophis gigas</i> Giant garter snake	Fresh water emergent wetland habitats, cropland (rice fields)	P	T/T/--
Amphibians			
<i>Ambystoma californiense</i> California tiger salamander	Grassland habitats that may include valley needlegrass grassland, valley wildrye grassland, non-native grassland and wildflower fields with vernal pools or other temporary ponds Other habitats include valley-oak woodland	P	C/CSC/--

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<i>Rana aurora draytonii</i> California red-legged frog	Lacustrine and riverine. Prefers standing or slow-moving water with overhanging vegetation	P	T/CSC/--
Fish			
<i>Hypomesus transpacificus</i> Delta smelt	Riverine. Mixing zone of the Sacramento-San Joaquin River Delta, where the delta smelt spends most of its adult life	P	T/--/--
<i>H. transpacificus</i> Critical habitat, delta smelt	Sacramento to San Joaquin River Delta	P	T/--/--
<i>O. mykiss</i> Central Valley steelhead	Riverine habitats; spawns in main stems and tributaries of the Sacramento and San Joaquin rivers	P, M	T/--/--
<i>O. tshawytscha</i> Critical habitat, winter-run chinook salmon	Critical habitat present within the Proposed Action and alternatives	P, M	E/--/--
<i>O. tshawytscha</i> Winter-run chinook salmon	Riverine habitats; spawns in main stems and tributaries of the Sacramento River	P, M	E/--/--
<i>O. tshawytscha</i> Central Valley spring-run chinook salmon	Riverine habitats; spawns in main stems and tributaries of the Sacramento and San Joaquin rivers	P, M	T/--/--
<i>O. tshawytscha</i> Critical habitat, Central Valley spring-run chinook salmon	Critical habitat present within the project area	P, M	T/--/--
<i>O. tshawytscha</i> Central Valley fall/late fall-run chinook salmon	Riverine habitats; spawns in main stems and tributaries of the Sacramento and San Joaquin rivers	P, M	C/--/--
<i>Pogonichthys macrolepidotus</i> Sacramento splittail	Riverine habitats, Sacramento/San Joaquin rivers, fresh water marsh, estuary, slow-moving river sections, and dead-end sloughs; require flooded vegetation for spawning and foraging for young	P	T/CSC/--
Invertebrates			
<i>Branchinecta conservation</i> Conservancy fairy shrimp	Vernal pools	P	E/--/--
<i>B. lynchi</i> Vernal pool fairy shrimp	Vernal pools	P	T/--/--
<i>Desmocerus californicus dimorphus</i> Valley elderberry longhorn beetle	Riparian habitats that may include great valley cottonwood riparian forest; great valley mixed forest; and great valley, valley oak riparian forest, provided elderberry shrubs are present	C	T/--/--

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<i>Lepidurus packardii</i> Vernal pool tadpole shrimp	Vernal pools	P	E/--/--
Plants			
<i>Castilleja campestris succulenta</i> Fleshy owl's clover	Vernal pools	P	T/--/--
<i>Cordylanthus. palmatus</i> Palmate-bracted bird's-beak	Alkaline soils	U - preferred soils do not occur in Proposed Action or alternatives	E/--/--
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	Clay soils in areas of shallow water, lake margins and vernal pool margins	P	--/E
<i>Neostapfia colusana</i> Colusa grass	Vernal pools	P	T/--/--
<i>O. tenuis</i> Slender Orcutt grass	Vernal pools	P	T/E/1B
<i>O. viscida</i> Sacramento Orcutt grass	Vernal pools	P	E/--/--
<i>T. mucronata</i> Solano grass	Clay bottoms of drying vernal pools and lakes in valley and foothill grassland	P	E/--/--

Sources: CNDDB 2001, USFWS 2001, and NMFS 2001
 CDFG: California Department of Fish and Game
 CNDDB: California Natural Diversity Database
 CNPS: California Native Plant Society
 USFWS: U.S. Fish and Wildlife Service

Federal Status

E: Endangered
 T: Threatened
 PE: Proposed endangered common elsewhere
 PT: Proposed threatened
 C: Candidate for listing

State/CDFG Status

E: Endangered
 T: Threatened
 R: Rare
 CSC: California special concern species

CNPS Status

1A: Presumed extinct in California
 1B: Rare and endangered in California and elsewhere
 2: Rare, threatened or endangered in California but more
 3: Plants about which more information is needed
 4: Limited distribution

Likelihood of Occurrence

C: confirmed within project area
 P: potentially occurring
 U: unlikely to occur
 M: migrant