

Appendix C

**Evaluation of Special-Status Species  
for Coverage in the  
Santa Clara Valley HCP/NCCP**



Appendix C

# Evaluation of Special-Status Species for Coverage in the Santa Clara Valley Habitat Plan

Table C-1 lists species recommended for coverage in the Habitat Plan. Table C-2 lists species considered but not recommended as covered species.

## Literature Cited

### Printed References

- California Natural Diversity Database. 2005. Occurrence information. RareFind, Version 3.0.3. Sacramento, CA: California Department of Fish and Game.
- California Natural Diversity Database. 2012. RareFind, Version 3.1.0 (Updated April 2012). Sacramento, CA: California Department of Fish and Game.
- Leidy, R.A., G. Becker, B.N. Harvey. 2005. Historical status of coho salmon in streams of the urbanized San Francisco Estuary, California. *California Fish and Game* 91(4).
- Moyle, P.B. 2002. *Inland fishes of California*. Revised and expanded. Berkeley, CA: University of California Press.
- U.S. Fish and Wildlife Service. 2004. *Draft recovery plan for vernal pool ecosystems of California and Southern Oregon*. Sacramento, CA.

### Personal Communications

- Hillman, Janell. 2005. Botanist, Santa Clara Valley Water District, San José, CA.
- Launer, Alan. 2005. Research Scientist, Center for Conservation Biology, Stanford University, Palo Alto, CA.
- Padley, Doug. 2005. Wildlife Biologist, Santa Clara Valley Water District, San José, CA.



**Table C-1. Species Recommended for Coverage in the Habitat Plan**

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
<b>Invertebrates</b>								
Bay checkerspot butterfly <i>Euphydryas editha bayensis</i>	–	FT	Y	Y	Y	Y	Y	Study area contains almost all known populations and habitat of species throughout range.
<b>Amphibians and Reptiles</b>								
California tiger salamander <i>Ambystoma californiense</i>	CSC	FT	Y	Y	Y	Y	Y	Known to occur in multiple locations in study area (CNDDDB 2005).
California red-legged frog <i>Rana aurora draytoni</i>	CSC	FT	Y	Y	Y	Y	Y	Known to occur in multiple locations in study area (CNDDDB 2005).
Foothill yellow-legged frog <i>Rana boylei</i>	CSC	–	Y	Y	Y	Y	Y	Known from study area.
Western pond turtle <i>Clemmys marmorata</i>	CSC	–	Y	Y	Y	Y	Y	Known to occur in study area (CNDDDB 2005); likelihood of listing within the permit term is low to moderate.
<b>Birds</b>								
Western burrowing owl <i>Athene cunicularia hypugea</i>	CSC	MBTA	Y	Y	Y	Y	Y	Known to occur in study area (CNDDDB 2005); could become listed during permit term. Species is protected under MBTA; take of individuals not allowed.
Least Bell's vireo <i>Vireo bellii pusillus</i>	SE	FE, MBTA	Y	Y	Y	Y	Y	Recent breeding records from Llagas Creek area (CNDDDB 2005). Suitable habitat present on Uvas Creek, on Pajaro River, and around Coyote Reservoir (D. Padley pers. comm.). Species is listed under MBTA but Special Purpose Permit can be acquired for take of individuals.
Tricolored blackbird <i>Agelaius tricolor</i>	CSC	MBTA	Y	Y	Y	Y	Y	Known to breed in region (CNDDDB 2005); high likelihood of occurring in study area. Species is protected under MBTA; take of individuals not allowed.

Table C-1. Continued

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
<b>Mammals</b>								
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	ST	FE	Y	Y	Y	Y	Y	Known to occur occasionally at edges of study area (two records from 1975, Aug. 2002 record in Henry Coe State Park; CNDDDB 2005).
<b>Plants</b>								
Tiburon Indian paintbrush <i>Castilleja affinis</i> ssp. <i>neglecta</i>	ST/1B	FE	Y	Y	Y	Y	Y	Two occurrences west of Anderson Reservoir on Coyote Ridge (CNDDDB 2012).
Coyote ceanothus <i>Ceanothus ferrisiae</i>	1B	FE	Y	Y	Y	Y	Y	Study area includes all three known occurrences and habitat of species throughout range (CNDDDB 2012).
Mount Hamilton thistle <i>Cirsium fontinale</i> var. <i>campylon</i>	1B	–	Y	Y	Y	Y	Y	Forty occurrences in study area (CNDDDB 2012; T. Marker, pers. comm.).
Santa Clara Valley dudleya <i>Dudleya abramsii</i> ssp. <i>setchellii</i>	1B	FE	Y	Y	Y	Y	Y	Study area includes all known occurrences (207) and habitat of species throughout range (CNDDDB 2012; T. Marker, pers. comm.).
Fragrant fritillary <i>Fritillaria liliacea</i>	1B	–	Y	Y	Y	Y	Y	Eight occurrences on east side of Santa Clara Valley (CNDDDB 2012).
Loma Prieta hoita <i>Hoita strobilina</i>	1B	–	Y	Y	Y	Y	Y	Fourteen occurrences in study area (CNDDDB 2012).
Smooth lessingia <i>Lessingia micradenia</i> var. <i>glabrata</i>	1B	–	Y	Y	Y	Y	Y	Thirty-nine occurrences in study area (CNDDDB 2012).
Metcalf Canyon jewelflower <i>Streptanthus albidus</i> ssp. <i>albidus</i>	1B	FE	Y	Y	Y	Y	Y	Ten occurrences, mostly in Santa Clara Valley (CNDDDB 2012).
Most beautiful jewelflower <i>Streptanthus albidus</i> ssp. <i>peramoenus</i>	1B	–	Y	Y	Y	Y	Y	Thirty-nine occurrences in study area (CNDDDB 2012).

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Notes:				<sup>b</sup> <b>Criteria</b>				
<sup>a</sup> <b>Status</b>								
<b>State Status</b>								
FP	=	Fully Protected.						
SE	=	State listed as endangered.						
ST	=	State listed as threatened.						
SR	=	State listed as rare.						
CSC	=	California special concern species (July 2005 list).						
<b>Federal Status</b>								
MBTA	=	Migratory Bird Treaty Act.						
FE	=	Federally endangered.						
FT	=	Federally threatened.						
FC	=	Candidate for federal listing.						
FPT	=	Federally proposed for threatened listing.						
FPD	=	Federally proposed for delisting.						
FD	=	Federally delisted.						
SOC	=	Species of Concern (National Marine Fisheries Service designation).						
<b>California Native Plant Society Ranking</b>								
1A	=	Presumed extinct in California.						
1B	=	Rare or endangered in California and elsewhere.						
2	=	Rare or endangered in California, more common elsewhere.						
3	=	Plants about which more information is needed.						
				<sup>c</sup> <b>Recommended Covered Status</b>				
				Y= recommended as covered species in the Habitat Plan.				
				N= not recommended for coverage in the Habitat Plan.				
Sources:								
California Natural Diversity Database (CNDDDB). 2005. RareFind 3, Version 3.0.3. Sacramento, CA: California Department of Fish and Game.								
California Natural Diversity Database (CNDDDB). 2012. RareFind 3, Version 3.1.0 (Updated April 2012). Sacramento, CA: California Department of Fish and Game.								
Marker, Timothy. Manager of environmental engineering. Pratt & Whitney Rocketdyne. January 22, 2007—Monitoring data provided in a letter to Jones & Stokes from United Technologies Corporation-Pratt & Whitney Rocketdyne.								





**Table C-2. Species Considered but Not Recommended as Covered Species**

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
<b>Invertebrates</b>								
Opler's longhorn moth <i>Adela oplerella</i>	–	–	Y	N	Y	Y	N	Common in serpentine habitats throughout study area; able to persist in very small (~0.1 ha) patches of habitat
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	–	FT	N	Y	N	Y	N	Study area outside of range or current distribution but may occur; no CNDDDB records; no known vernal pool habitat within study area
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	–	FE	N	Y	N	Y	N	No known vernal pool habitat within study area and no records listed in CNDDDB (2005)
San Francisco lacewing <i>Nothochrysa californica</i>	–	–	?	N	?	Y	N	Not expected to become listed during permit term
Unsilvered fritillary <i>Speyeria adiastra adiastra</i>	–	–	N	Y	N	N	N	Petition for federal listing was denied. Most viable populations have been extirpated in the study area (A. Launer pers. comm.) and it is unlikely to occur in the study area (Spencer et al. 2006); impact of covered activities uncertain; lack of data on habitat requirements and conservation needs
Callippe silverspot butterfly <i>Speyeria callippe callippe</i>	–	FE	N	Y	N	N	N	Coyote and Uvas/Llagas Watersheds outside of range or current distribution. Some have suggested that <i>S. callippe callippe</i> extends to study area, but local collections to date have been <i>S. c. comstocki</i> (A. Lauer pers. comm.)
Serpentine phalangid <i>Calcina serpentina</i>	–	–	N	N	Y	N	N	Not expected to become listed during permit term. All the other many phalangids (described and undescribed) in the study area are not likely to be listed (A. Launer pers. comm.)
Horn's micro-blind harvestman <i>Microcina horni</i>	–	–	Y	N	N?	N	N	Endemic to Santa Clara County; petitioned for listing in 1990 but rejected due to lack of data; impacts of covered activities uncertain
Jung's micro-blind harvestman <i>Microcina jungi</i>	–	–	Y	N	N?	N	N	Endemic to Santa Clara County; petitioned for listing in 1990 but rejected due to lack of data; impacts of covered activities uncertain
Ricksecker's water scavenger beetle <i>Hydrochara rickseckeri</i>	–	–	N	N	N	N	N	Not expected to become listed during permit term and not found in the study area
Bridges (= Coast Range) shoulderband <i>Helminthoglypta nickliniana bridgesi</i>	–	–	Y	N	Y	Y	N	Not expected to become listed during permit term

Table C-2. Continued

Species	Status <sup>a</sup>		Criteria <sup>b</sup>				Recommended		Notes
	State/ CNPS	Federal	Range	Status	Impact	Data	Covered Status <sup>c</sup>		
California linderiella fairy shrimp <i>Linderiella occidentalis</i>	–	–	Y	N	?	Y	N	Not expected to become listed during permit term; study area within known range or current distribution	
Curved-foot hygrotus diving beetle <i>Hygrotus curvipes</i>	–	–	N	N	?	Y	N	Not expected to become listed during permit term	
San Francisco fork-tailed damselfly <i>Ischnura gemina</i>	–	–	Y	N	?	?	N	Unlikely to become listed during the permit term	
California floater (a freshwater mussel) <i>Anodonta californiensis</i>	–	–	Y	N	N?	N	N	Unlikely to become listed over the permit term.	
Monarch butterfly <i>Danaus plexippus</i>	–	–	N	N	N	Y	N	Roost sites not known to occur in the study area; not expected to become listed during permit term	
Myrtle's silverspot butterfly <i>Speyeria zerene myrtleae</i>	–	FE	N	N	N	N	N	Study area outside of range or current distribution	
<b>Fish</b>									
Sacramento perch (within native range) <i>Archoplites interruptus</i>	CSC	–	Y	N	Y	Y	N	Listing unlikely due to current population expansion outside of native range and native habitat type	
Monterey roach <i>Lavinia symmetricus subditus</i>	CSC	–	Y	N	Y	Y	N	Abundant in Pajaro River, Llagas Creek, and Pacheco Creek (Spencer et al. 2006); unlikely to become listed during permit term	
Central California coho salmon <i>Oncorhynchus kisutch</i>	SE (see note)	FE (see note)	N	Y	N	Y	N	State endangered status applies south of San Francisco Bay; federal status applies to naturally spawning populations in streams between Punta Gorda, Humboldt County and San Lorenzo River, Santa Cruz County. Coho salmon currently do not occur in the study area. A recent study of the historic occurrences of Coho in San Francisco Bay drainages found historic Coho occurrence in the upper Coyote Creek and Guadalupe River drainages as “probable” (Leidy et al. 2005). Given that Santa Clara County was at the southern edge of their range (Moyle 2002), they were likely never common in the south Bay. Recovery in this system is highly unlikely due to the presence of dams below likely spawning and rearing habitat.	
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	CSC	FD	N	Y	N	Y	N	Low abundance in South Bay, estuarine river reaches only (outside study area)	

Table C-2. Continued

Species	Status <sup>a</sup>		Criteria <sup>b</sup>				Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Rainbow trout <i>Oncorhynchus mykiss</i>	–	–	Y	N	N	Y	N	Potential for landlocked populations within study area to become listed is low because Alameda Creek population was removed from listed ESU January 5, 2006
River lamprey <i>Lampetra ayresi</i>	CSC	–	Y?	N	Y	N	N	Not likely to become listed during permit term; biology and distribution not studied in California
Pacific lamprey <i>Lampetra tridentata</i>	–	–	Y	Y	Y	Y	N	Petition for federal listing; recently rejected but may be resubmitted. Section 10 coverage will be obtained for the SCVWD under the Three Creeks HCP. South County coverage to be obtained under amendment or separate permit.
South-Central California Coastal steelhead <i>Oncorhynchus mykiss</i>	CSC	FT	Y	Y	Y	Y	N	Occurs in Pajaro River and tributaries; suitable habitat occurs above Uvas Dam (CNDDDB 2005). Section 10 coverage for the SCVWD to be obtained under amendment or separate permit.
Central California Coastal steelhead <i>Oncorhynchus mykiss</i>	–	FT	Y	Y	Y	Y	N	Occurs in Coyote Creek and tributaries (CNDDDB 2005). Section 10 coverage for the SCVWD will be obtained under the Three Creeks HCP.
Central valley fall-run Chinook salmon <i>Oncorhynchus tshawytscha</i>	CSC	SOC	Y	Y?	Y	Y	N	Occurs in Guadalupe River; species was federal candidate but listing was not warranted per 1999 decision; NOAA considers population in study area to be of hatchery stock and not part of the listed ESU; due to increasing population numbers listing of this species is may be unlikely. Section 10 coverage for the SCVWD will be obtained under the Three Creeks HCP.
<b>Amphibians</b>								
Western spadefoot <i>Spea hammondi</i>	CSC	–	N	N	N	N	N	Recent comprehensive evaluations of survey data and museum specimens have concluded that this species has not historically or does not currently occur in Santa Clara County (see USFWS [2004] for a summary of these studies)
<b>Reptiles</b>								
Alameda whipsnake <i>Masticophis lateralis euryxanthus</i>	ST	FT	N	Y	N	Y	N	Southern edge of subspecies range is at the northern edge of Santa Clara County within SFPUC Alameda Watershed (covered by separate HCP); subspecies may intergrade with chaparral whipsnake ( <i>M. l. lateralis</i> ) at the southern edge of its range making identification difficult

Table C-2. Continued

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Silvery legless lizard <i>Anniella pulchra pulchra</i>	CSC	–	Y	N	Y	N	N	Suitable habitat may occur in the study area; not expected to become listed during permit term
San Joaquin coachwhip <i>Masticophis flagellum ruddocki</i>	CSC	–	N	N	N	Y	N	Not expected to become listed during permit term
California horned lizard <i>Phrynosoma coronatum frontale</i>	CSC	–	Y	N	Y	N	N	Not expected to become listed during permit term; USFWS and CDFG will not cover due to limited data on the species; taxonomy uncertain: recent study combined <i>P. c. frontale</i> and <i>P. c. schmidti</i> into new species <i>P. blainvillii</i>
<b>Birds</b>								
Western grebe <i>Aechmophorus occidentalis</i>	–	–	Y	N	N	Y	N	Not expected to become listed during permit term
Golden eagle <i>Aquila chrysaetos</i>	FP	BGPA, MBTA	Y	Y	N	Y	N	Take of individuals and nests not allowed; unlikely to be affected by covered activities
Great blue heron (rookery) <i>Ardea herodias</i>	–	–	Y	N	N	Y	N	Not expected to become listed during permit term
California condor <i>Gymnogyps californianus</i>	SE/FP	FE	N	Y	N	Y	N	Species is fully protected; take of individuals not allowed; only known as a rare migrant in study area
Prairie falcon <i>Falco mexicanus</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term
American peregrine falcon <i>Falco peregrinus anatum</i>	SE/FP	FD	Y	Y	N	Y	N	Species is fully protected; take of individuals not allowed; not likely to be listed under the federal ESA because it was recently removed from the list; removal of limited habitat not expected to rise to the level of habitat take under the state ESA
Bald eagle <i>Haliaeetus leucocephalus</i>	SE/FP	FD, BGPA, MBTA	Y	Y	N?	Y	N	No breeding pairs known to occur in study area, but breeding range may expand; individuals occasionally winter at reservoirs in study area including Calero; species is fully protected but delisted by USFWS; impact of covered activities uncertain
Short-eared owl <i>Asio flammeus</i>	CSC	–	N	Y?	N	Y	N	Not likely to occur in study area due to lack of suitable habitat
Cooper's hawk <i>Accipiter cooperii</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term

Table C-2. Continued

Species	Status <sup>a</sup>		Criteria <sup>b</sup>				Recommended		Notes
	State/ CNPS	Federal	Range	Status	Impact	Data	Covered Status <sup>c</sup>		
Osprey <i>Pandion haliaetus</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term	
Sharp-shinned hawk <i>Accipiter striatus</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term	
Northern harrier <i>Circus cyaneus</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term	
Ferruginous hawk <i>Buteo regalis</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term	
California black rail <i>Laterallus jamaicensis coturniculus</i>	ST/FP	–	N	Y	N	Y	N	Study area outside of range or current known distribution; suitable habitat in the study area is very limited and unlikely to support species	
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	CSC	FT	N	Y	N	Y	N	No suitable habitat in study area	
Mountain plover <i>Charadrius montanus</i>	CSC	FPT	N	Y	N	Y	N	No suitable habitat in study area	
Long-billed curlew <i>Numenius americanus</i>	CSC	–	N	N	N	Y	N	Not expected to become listed during permit term	
Aleutian Canada goose <i>Branta canadensis leucopareia</i>	–	delisted	Y	N	N?	Y	N	Species in recovery, not expected to become relisted during permit term; rare wintering visitor to study area	
Black tern <i>Chlidonias niger</i> (nesting colony)	CSC	–	N	N	N	Y	N	Not expected to become listed during permit term	
California least tern <i>Sterna antillarum (albifrons) browni</i> (nesting colony)	SE/FP	FE	N	Y	N	Y	N	No suitable habitat in study area	
American white pelican <i>Pelecanus erythrorhynchos</i>	CSC	–	Y	N	N	Y	N	Does not breed in study area; not expected to become listed during permit term	
California horned lark <i>Eremophila alpestris actia</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term	
Loggerhead shrike <i>Lanius ludovicianus</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term	
White-tailed kite <i>Elanus leucurus</i>	FP	–	Y	N	N	Y	N	Species is fully protected; take of individuals not allowed; species relatively common in study area so not likely to be state or federally listed if fully protected designation is withdrawn	

Table C-2. Continued

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	ST	–	N	Y	N	Y	N	Not known to occur in the study area recently or historically
Willow flycatcher <i>Empidonax traillii</i> (various ssp.)	SE	FE (only ssp. <i>extimus</i> )	Y	Y	N	Y	N	Study area outside of breeding range of all willow flycatcher subspecies. Only migrant willow flycatchers are found within the study area. Chance for take is remote. The local migrant subspecies ( <i>brewsteri</i> and possibly <i>adastus</i> ) are not likely to be federally listed
Purple martin <i>Progne subis</i>	CSC	MBTA	N	Y	N	Y	N	Unlikely to breed in study area due to presence of European starlings and house sparrows (competitors) (Spencer et al. 2006); migrants occasionally forage in study area; likely to become listed during permit term. Species is protected under MBTA; take of individuals not allowed
Bank swallow <i>Riparia riparia</i>	ST	MBTA	Y	Y	N	Y	N	No records of breeding in the study area; historic breeding record from 1931 (CNDDDB 2005); currently known only as a rare migrant through area (Spencer et al. 2006), but breeds in nearby Salinas Valley. Species is protected under MBTA; take of individuals not allowed
Salt marsh common yellowthroat (= San Francisco yellowthroat) <i>Geothlypis trichas sinuosa</i>	CSC	MBTA	N	Y	N	N	N	Known to breed in Alviso in freshwater and brackish marshes (CNDDDB 2005, D. Padley pers. comm.). Taxonomy of subspecies breeding in study area is uncertain; efficacy of conservation measures within study area is also uncertain (Spencer et al. 2006). Species is protected under MBTA; take of individuals not allowed
Bell's sage sparrow <i>Amphispiza belli belli</i>	CSC	–	Y	N	Y	N	N	Unlikely to be listed during the permit term
<b>Mammals</b>								
Fringed myotis <i>Myotis thysanodes</i>	–	–	Y	N	Y	Y	N	Not expected to become listed during permit term
Pacific Townsend's (=western) big-eared bat <i>Corynorhinus townsendii townsendii</i>	CSC	–	Y	N	N	Y	N	Not expected to become listed during permit term and not likely to be impacted by covered activities
Long-eared myotis <i>Myotis evotis</i>	–	–	Y	N	N	Y	N	Not expected to become listed during permit term

Table C-2. Continued

Species	Status <sup>a</sup>		Criteria <sup>b</sup>				Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Long-legged myotis <i>Myotis volans</i>	–	–	Y	N	N	Y	N	Not expected to become listed during permit term
Yuma myotis <i>Myotis yumanensis</i>	–	–	Y	N	N	Y	N	Not expected to become listed during permit term
Greater western mastiff bat <i>Eumops perotis</i>	CSC	–	Y	N	N	Y	N	Not expected to become listed during permit term
Small footed myotis <i>Myotis ciliolabrum</i>	–	–	Y	N	N	Y	N	Not expected to become listed during permit term
Pallid bat <i>Antrozous pallidus</i>	CSC	–	Y	N	N	Y	N	Not expected to become listed during permit term
Red bat <i>Lasiurus blossevillii</i>	–	–	Y	N	Y	N	N	Unlikely to become listed during permit term; data on distribution and ecology in California insufficient for coverage (see Western Bat Working Group at <a href="http://www.wbwg.org">www.wbwg.org</a> for more information on this and other bats)
Hoary bat <i>Lasiurus cinereus</i>	–	–	?	N	?	Y	N	Unknown if species occurs in study area; one of the most widespread North American bats
Spotted bat <i>Euderma maculatum</i>	CSC	–	?	N	?	N	N	Unlikely to become listed during permit term; data on distribution and ecology insufficient; unknown if species occurs in study area
Berkeley kangaroo rat <i>Dipodomys heermanni berkeleyensis</i>	–	–	N	Y	N	N	N	Subspecies possibly extinct; historic distribution in Contra Costa and Alameda Counties with southernmost record at Calaveras Reservoir (1940); study area outside of historic range
San Francisco dusky-footed woodrat <i>Neotoma fuscipes annectens</i>	CSC	–	Y	N	N	Y	N	Not expected to become listed during permit term; most of study area outside range of subspecies
Mountain lion <i>Felis concolor</i>	–	–	Y	N	N	Y	N	Not expected to become listed during permit term
Ringtail <i>Bassariscus astutus</i>	FP	–	Y	N	N	Y?	N	Species is fully protected; take of individuals not allowed; species relatively common in study area so not likely to be state or federally listed if fully protected designation is withdrawn
American badger <i>Taxidea taxus</i>	CSC	–	Y	N	Y	Y	N	Not expected to become listed during permit term. Range is expanding outside California

Species	Status <sup>a</sup>		Criteria <sup>b</sup>				Recommended		Notes
	State/ CNPS	Federal	Range	Status	Impact	Data	Covered Status <sup>c</sup>		
<b>Plants</b>									
Chaparral harebell <i>Campanula exigua</i>	1B	–	Y	Y	N	Y	N	One occurrence in study area (CNDDDB 2012).	
Woodland woollythreads <i>Monolopia gracilens</i>	1B	–	Y	N	Y	Y	N	Not expected to become listed during permit term	
Big scale balsamroot <i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	1B	–	Y	Y	N	Y	N	Two occurrences in Santa Clara Valley (CNDDDB 2012).	
Franciscan onion <i>Allium peninsulare</i> var. <i>franciscanum</i>	1B	–	N	Y	N	Y	N	Outside of known range	
Sharsmith's onion <i>Allium sharsmithiae</i>	1B	–	N	Y	N	Y	N	Outside of known range	
Bent-flowered fiddleneck <i>Amsinckia lunaris</i>	1B		N?	Y	N	Y	N	Occurrence in Santa Clara County along Kinkaid Road outside study area; no occurrences known from study area	
Santa Cruz Manzanita <i>Arctostaphylos andersonii</i>	1B	–	Y	N	Y	Y	N	Two occurrences in study area (CNDDDB 2005); occurs near summit road near Mt. Madonna County Park. In Santa Cruz County, species often dominates chaparral where it occurs, so unlikely to be listed during permit term.	
Kings Mountain Manzanita <i>Arctostaphylos regismontana</i>	1B	–	Y	Y	N	Y	N	One occurrence in study area (CNDDDB 2005)	
Alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i>	1B	–	N	Y	N	Y	N	Outside of known range	
San Joaquin saltbush <i>Atriplex joaquiniana</i>	1B	–	Y?	Y	N	Y	N	One historic occurrence at north end of Salinas Valley near County line (CNDDDB 2005)	
Santa Cruz Mountains pussypaws <i>Calyptridium parryi</i> var. <i>hesseae</i>	1B	–	N	Y	N	N	N	Only Santa Clara County occurrence not in study area (CNDDDB 2005)	
Sharsmith's harebell <i>Campanula sharsmithiae</i>	1B	–	N	Y	N	Y	N	Outside of known range	
Congdon's tarplant <i>Centromadia parryi</i> ssp. <i>congdonii</i>	1B	–	Y	Y	N	Y	N	One historic occurrence in study area, extirpated (CNDDDB 2005); four other occurrences in the County along SF Bay	
San Francisco Bay spineflower <i>Chorizanthe cuspidata</i> var. <i>cuspidata</i>	1B	–	N	Y	N	Y	N	Outside of known range	



Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Lost thistle <i>Cirsium praeteriens</i>	1A	–	N	Y	N	N	N	Outside of known range
San Francisco collinsia <i>Collinsia multicolor</i>	1B	–	Y	Y	Y?	Y	N	One occurrence in Anderson Reservoir basin
Point Reyes bird's-beak <i>Cordylanthus maritimus</i> ssp. <i>palustris</i>	1B	–	N	Y	N	Y	N	Out of known range
Mount Hamilton coreopsis <i>Leptosyne [Coreopsis] hamiltonii</i>	1B	–	Y	Y	N	Y	N	Unlikely to be affected by covered activities
Hospital Canyon larkspur <i>Delphinium californicum</i> ssp. <i>interius</i>	1B	–	N	Y	N	Y	N	Outside of known range
Western leatherwood <i>Dirca occidentalis</i>	1B	–	N	Y	N	Y	N	Outside of known range; one occurrence known from upper Saratoga Creek outside the study area
Brandegee's eriastrum <i>Eriastrum brandegeae</i>	1B	–	N	Y	N	N	N	Outside of known range
Tracy's eriastrum <i>Eriastrum tracyi</i>	SR/1B	–	N	Y	N	N	N	Outside of known range
Tiburon buckwheat <i>Eriogonum luteolum</i> var. <i>caninum</i>	3	–	N	Y	N	N	N	Outside of known range
Ben Lomond buckwheat <i>Eriogonum nudum</i> var. <i>decurrens</i>	1B	–	N	Y	N	Y	N	Outside of known range
Hoover's button-celery <i>Eryngium aristulatum</i> var. <i>hooveri</i>	1B	–	N?	Y	N	Y	N	One historic occurrence at north end of Salinas Valley by County line; known from Soap Lake in Santa Cruz County across county line
Talus fritillary <i>Fritillaria falcata</i>	1B	–	N	Y	N	Y	N	Out of known range
Delta tule pea <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	1B	–	N	Y	N	Y	N	Out of known range
Legenere <i>Legenere limosa</i>	1B	–	N?	Y	N	Y	N	Only Santa Clara occurrence is outside study area, on Timber Ridge (CNDDDB 2005) at edge of county in stock ponds that function as vernal pools (J. Hillman pers. comm.). 2002 occurrence on Coyote Ridge needs confirmation.

Table C-2. Continued

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Woolly-headed lessingia <i>Lessingia hololeuca</i>	3	–	Y	N	N	N	N	Historic collection near Gilroy (CNDDDB 2005)
Mount Hamilton lomatium <i>Lomatium observatorium</i>	1B	–	N	Y	N	Y	N	Outside of known range
Arcuate bush mallow <i>Malacothamnus arcuatus</i>	1B	–	N	N	N	Y	N	Species will likely no longer be recognized in the new edition of the Jepson Manual, the definitive flora of California (Slotta 2004, in prep., and pers. comm.)
Hall's bush mallow <i>Malacothamnus hallii</i>	1B	–	Y	Y	Y	N	N	Status of species' taxonomy is in question.
Oregon meconella <i>Meconella oregana</i>	1B	–	Y?	Y?	N	N	N	May occur in remote section of Henry Coe State Park
Mount Diablo cottonweed <i>Micropus amphibolus</i>	3	–	N	Y	N	N	N	Outside of known range
San Antonio Hills monardella <i>Monardella antonina</i> ssp. <i>antonina</i>	3	–	Y	N	N	N	N	Historic collection at Loma Prieta (CNDDDB 2005)
Prostrate navarretia <i>Navarretia prostrata</i>	1B	–	Y	N	N	N	N	Unlikely to be affected by covered activities; Undocumented population of approximately 150 plants recently seen at San Felipe (Soap) Lake at the county line between Santa Clara and San Benito growing along the east bank of Tesquisquita Slough where it empties into the south west side of the lake.
Santa Cruz Mountains beardtongue <i>Penstemon rattanii</i> var. <i>kleei</i>	1B	–	Y?	Y	N	Y	N	Unlikely to be affected by covered activities; historically occurred near Mt. Madonna
Mount Diablo phacelia <i>Phacelia phacelioides</i>	1B	–	N	Y	N	Y	N	Outside of known range
Hooked popcornflower <i>Plagiobothrys uncinatus</i>	1B	–	N	Y	N	Y	N	Outside of known range
Slender-leaved pondweed <i>Potamogeton filiformis</i>	2	–	N	Y	N	Y	N	Outside of known range
Robust monardella <i>Monardella villosa</i> ssp. <i>globosa</i>	1B	–	Y	N	Y	Y	N	Taxonomic status changed during Plan development. Taxa no longer valid and subsumed under more common taxa.

Table C-2. Continued

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Rock sanicle <i>Sanicula saxatilis</i>	SR/1B	–	N	Y	N	Y	N	One occurrence in Henry Coe State Park (CNDDDB 2012); also known from Mt. Hamilton on University of California and private land just outside study area; no impacts expected from covered activities.
Maple-leaved checkerbloom <i>Sidalcea malachroides</i>	1B	–	Y	Y	N	Y	N	One historic occurrence in study area, current status unknown
Rayless ragwort <i>Senecio aphanactis</i>	2	–	N	Y	N	Y	N	Outside of known range
Mount Hamilton jewelflower <i>Streptanthus callistus</i>	1B	–	Y	Y	N	Y	N	Several occurrences in study area in Henry Coe State Park (CNDDDB 2005); will not be affected by covered activities; endemic to Santa Clara County
California seablite <i>Suaeda californica</i>	1B	FE	N	Y	N	Y	N	Outside of known range; suitable habitat is tidal salt marsh
Saline clover <i>Trifolium hydrophilum</i> [ <i>T. depauperatum</i> var. <i>hydrophilum</i> ]	1B	–	N	Y	N	Y	N	Occurs in Soap Lake in San Benito County
Common viburnum <i>Viburnum ellipticum</i>	2	–	Y	N	N?	N	N	Species is fairly common in Pacific Northwest and unlikely to be listed. There is one unverified occurrence on Little Uvas Road in Morgan Hill. No CNDDDB (2006) occurrences within the study area. Species not likely to be adversely affected by covered activities.
California hoptree <i>Ptelea crenulata</i>	–	–	Y	N	N	N	N	Study area encompasses the southern end of this locally rare species' range limit in the Coast Range. Species is highly unlikely to be listed during the permit term and is unlikely to be adversely affected by covered activities. Additionally, very little data exists for this species that would allow an assessment of impacts or creation of conservation measures.
Santa Clara thorn-mint <i>Acanthomintha lanceolata</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.

Table C-2. Continued

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
Serpentine sunflower <i>Helianthus exilis</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Brewer's calandrinia <i>Calandrinia brewer</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Serpentine leptosiphon <i>Leptosiphon ambiguus</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Brewer's clarkia <i>Clarkia breweri</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Large-flowered leptosiphon <i>Leptosiphon grandiflorus</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Santa Clara red ribbons <i>Clarkia concinna</i> ssp. <i>Automixa</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Spring lessingia <i>Lessingia tenuis</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.

Table C-2. Continued

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended Covered Status <sup>c</sup>	Notes
	State/ CNPS	Federal	Range	Status	Impact	Data		
San Francisco wallflower <i>Erysimum franciscanum</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Michael's rein orchid <i>Piperia michaelii</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Stinkbells <i>Fritillaria agrestis</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.
Serpentine bedstraw <i>Galium andrewsii</i> ssp. <i>gatense</i>	4	–	Y	N	N?	N	N	Species does not meet the criteria for status or data: it is unlikely to become listed during the permit term and insufficient data exists at this time to evaluate impacts to or develop conservation measures for this species. Plan Conservation Actions may benefit this species incidentally.

Species	Status <sup>a</sup>			Criteria <sup>b</sup>			Recommended	
	State/ CNPS	Federal	Range	Status	Impact	Data	Covered Status <sup>c</sup>	Notes
Notes				<sup>b</sup> <b>Criteria</b>				
a <b>Status</b>				<b>Range:</b> The species is known to occur or is likely to occur within the Habitat Plan study area, based on credible evidence, or the species is not currently known in the study area but is expected in the study area during the permit term (e.g., through range expansion or reintroduction to historic range).				
<b>State Status</b>				<b>Status:</b> The species is either:				
FP = Fully Protected.				<ul style="list-style-type: none"> <li>▪ listed under the federal ESA as threatened or endangered, or proposed for listing;</li> <li>▪ listed under CESA as threatened or endangered or a candidate for such listing, or listed under the Native Plant Protection Act as rare; or</li> <li>▪ expected to be listed under ESA or CESA within the permit term. Potential for listing during the permit term is based on current listing status, consultation with experts and Wildlife Agency staff, evaluation of species population trends and threats, and best professional judgment.</li> </ul>				
SE = State listed as endangered.				<b>Impact:</b> The species or its habitat would be adversely affected by covered activities or projects that may result in take of the species.				
ST = State listed as threatened.				<b>Data:</b> Sufficient data exist on the species' life history, habitat requirements, and occurrence in the study area to adequately evaluate impacts on the species and to develop conservation measures to mitigate these impacts to levels specified by regulatory standards.				
SR = State listed as rare.				Species proposed for coverage in the Plan were limited to those species for which impacts from covered activities were likely, in order to provide take authorization for the highest priority species. However, many other special-status species are expected to benefit from the Plan, as described in Chapter 5.				
CSC = California special concern species (July 2005 list).								
<b>Federal Status</b>				<sup>c</sup> <b>Recommended Covered Status</b>				
BGPA = Bald Eagle and Golden Eagle Protection Act.				Y recommended as covered species in the Habitat Plan.				
MBTA = Migratory Bird Treaty Act.				N not recommended for coverage in the Habitat Plan.				
FE = Federally endangered.								
FT = Federally threatened.								
FC = Candidate for federal listing.								
FPT = Federally proposed for threatened listing.								
FPD = Federally proposed for delisting.								
FD = Federally delisted.								
SOC = Species of Concern (National Marine Fisheries Service designation).								
<b>California Native Plant Society Ranking</b>								
1A = Presumed extinct in California.								
1B = Rare or endangered in California and elsewhere.								
2 = Rare or endangered in California, more common elsewhere.								
3 = Plants about which more information is needed.								
4 = Plants of limited distribution								