



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office  
2800 Cottage Way, Room W-2605  
Sacramento, California 95825

IN REPLY REFER TO:

1-1-02-SP-2185

June 10, 2002

Mr. Brook Vinnedge  
Jones and Stokes  
268 Grand Avenue  
Oakland, California 94610-4724

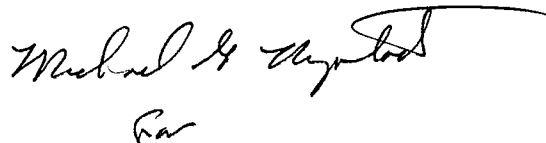
Subject: Species List for BART Warm Springs Extension Project (WSX), Fremont and Irvington, Alameda County, California

Dear Mr. Vinnedge:

We are sending the enclosed list in response to your June 7, 2002, request for information about endangered and threatened species (Enclosure A). The list covers the following U.S. Geological Survey 7½ minute quad or quads: Milpitas and Niles Quads.

Please read *Important Information About Your Species List* (enclosed). It explains how we made the list and describes your responsibilities under the Endangered Species Act. Please contact Tracy Davis at (916) 414-6625, if you have any questions about the attached list or your responsibilities under the Endangered Species Act. For the fastest response to species list requests, address them to the attention of Species Lists at this address. You may fax requests to 414-6712 or 414-6713. You may also email them to [harry\\_mossman@fws.gov](mailto:harry_mossman@fws.gov).

Sincerely,



Jan C. Knight  
Chief, Endangered Species Division

Enclosures



# Important Information About Your Species List

## How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute *quads*. The United States is divided into these quads, which are about the size of San Francisco. If you requested your list by quad name or number, that is what we used. Otherwise, we used the information you sent us to determine which quad or quads to use.

## Animals

The animals on your species list are ones that occur within, *or may be affected by projects within*, the quads covered by the list. Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them. Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents. Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

## Plants

Any plants on your list are ones *that have actually been observed* in the quad or quads covered by the list. We have also included either a county species list or a list of species in nearby quads. We recommend that you check your project area for these plants. Plants may exist in an area without ever having been detected there.

## Surveying

Some of the species on your list may not be affected by your project. A trained biologist or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. For plant surveys, we recommend using the enclosed *Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Species*. The results of your surveys should be published in any environmental documents prepared for your project.

## State-Listed Species

If a species has been listed as threatened or endangered by the State of California, but not by us nor by the National Marine Fisheries Service, it will appear on your list as a Species of Concern. *However you should contact the California Department of Fish and Game for official information about these species.* Call (916) 322-2493 or write Marketing Manager, California Department of Fish and Game, Natural Diversity Data Base, 1416 Ninth Street, Sacramento, California 95814.

## Your Responsibilities Under the Endangered Species Act

All plants and animals identified as *listed* on Enclosure A are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the *take* of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal. Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a *formal consultation* with the Service. During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a *biological opinion* by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an *incidental take permit*. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project. Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

## Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as *critical habitat*. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Maps and boundary descriptions of the critical habitat may be found in the *Federal Register*. The information is also reprinted in the *Code of Federal Regulations* (50 CFR 17.95).

## **Candidate Species**

We recommend that you address impacts to *candidate* species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Your list may contain a section called *Species of Concern*. This term includes former *category 2 candidate species* and other plants and animals of concern to the Service and other Federal, State and private conservation agencies and organizations. Some of these species may become candidate species in the future.

## **Wetlands**

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

## **Updates**

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed, candidate and special concern species in your planning, this should not be a problem. We also continually strive to make our information as accurate as possible. Sometimes we learn that a particular species has a different range than we thought. This should not be a problem if you consider the species on the county or surrounding-quad lists that we have enclosed. If you have a long-term project or if your project is delayed, please feel free to contact us about getting a current list. You can also find out the current status of a species by going to the Service's Internet page: [www.fws.gov](http://www.fws.gov)

GUIDELINES FOR CONDUCTING AND REPORTING BOTANICAL INVENTORIES  
FOR FEDERALLY LISTED, PROPOSED AND CANDIDATE PLANTS  
(September 23, 1996)

These guidelines describe protocols for conducting botanical inventories for federally listed, proposed and candidate plants, and describe minimum standards for reporting results. The Service will use, in part, the information outlined below in determining whether the project under consideration may affect any listed, proposed or candidate plants, and in determining the direct, indirect, and cumulative effects.

Field inventories should be conducted in a manner that will locate listed, proposed, or candidate species (target species) that may be present. The entire project area requires a botanical inventory, except developed agricultural lands. The field investigator(s) should:

1. Conduct inventories at the appropriate times of year when target species are present and identifiable. Inventories will include all potential habitats. Multiple site visits during a field season may be necessary to make observations during the appropriate phenological stage of all target species.
2. If available, use a regional or local reference population to obtain a visual image of the target species and associated habitat(s). If access to reference populations is not available, investigators should study specimens from local herbaria.
3. List every species observed and compile a comprehensive list of vascular plants for the entire project site. Vascular plants need to be identified to a taxonomic level which allows rarity to be determined.
4. Report results of botanical field inventories that include:
  - a. a description of the biological setting, including plant community, topography, soils, potential habitat of target species, and an evaluation of environmental conditions, such as timing or quantity of rainfall, which may influence the performance and expression of target species
  - b. a map of project location showing scale, orientation, project boundaries, parcel size, and map quadrangle name
  - c. survey dates and survey methodology(ies)
  - d. if a reference population is available, provide a written narrative describing the target species reference population(s) used, and date(s) when observations were made
  - e. a comprehensive list of all vascular plants occurring on the project site for each habitat type
  - f. current and historic land uses of the habitat(s) and degree of site alteration
  - g. presence of target species off-site on adjacent parcels, if known



ENCLOSURE A  
Endangered and Threatened Species that May Occur in or be Affected by  
PROJECTS IN ALAMEDA COUNTY  
Reference File No. 1-1-02-SP-2185  
June 10, 2002

**Listed Species**

Mammals

- salt marsh harvest mouse, *Reithrodontomys raviventris* (E)
- San Joaquin kit fox, *Vulpes macrotis mutica* (E)
- riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) \*
- riparian brush rabbit, *Sylvilagus bachmani riparius* (E) \*

Birds

- California brown pelican, *Pelecanus occidentalis californicus* (E)
- California clapper rail, *Rallus longirostris obsoletus* (E)
- California least tern, *Sterna antillarum (=albifrons) browni* (E)
- bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

- Alameda whipsnake, *Masticophis lateralis euryxanthus* (T)
- Critical habitat, Alameda whipsnake, *Masticophis lateralis euryxanthus* (T)

Amphibians

- California red-legged frog, *Rana aurora draytonii* (T)

Fish

- tidewater goby, *Eucyclogobius newberryi* (E)
- Critical habitat, winter-run chinook salmon, *Oncorhynchus tshawytscha* (E) NMFS
- winter-run chinook salmon, *Oncorhynchus tshawytscha* (E) NMFS
- coho salmon - central CA coast, *Oncorhynchus kisutch* (T) NMFS
- Central California Coastal steelhead, *Oncorhynchus mykiss* (T) NMFS
- Critical habitat, Central California coastal steelhead, *Oncorhynchus mykiss* (T) NMFS
- Critical habitat, Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
- Central Valley spring-run chinook salmon, *Oncorhynchus tshawytscha* (T) NMFS
- Critical Habitat, Central Valley spring-run chinook, *Oncorhynchus tshawytscha* (T) NMFS



Sacramento splittail, *Pogonichthys macrolepidotus* (T)

delta smelt, *Hypomesus transpacificus* (T) \*

Invertebrates

longhorn fairy shrimp, *Branchinecta longiantenna* (E)

vernal pool tadpole shrimp, *Lepidurus packardii* (E)

callippe silverspot butterfly, *Speyeria callippe callippe* (E)

vernal pool fairy shrimp, *Branchinecta lynchi* (T)

bay checkerspot butterfly, *Euphydryas editha bayensis* (T)

Plants

large-flowered fiddleneck, *Amsinckia grandiflora* (E)

Presidio clarkia, *Clarkia franciscana* (E)

palmate-bracted bird's-beak, *Cordylanthus palmatus* (E)

Contra Costa goldfields, *Lasthenia conjugens* (E)

pallid manzanita (=Alameda or Oakland Hills manzanita), *Arctostaphylos pallida* (T)

robust spineflower, *Chorizanthe robusta* var. *robusta* (E) \*

California sea blite, *Suaeda californica* (E) \*

showy Indian clover, *Trifolium amoenum* (E) \*

Santa Cruz tarplant, *Holocarpha macradenia* (T) \*

**Proposed Species**

Birds

mountain plover, *Charadrius montanus* (PT)

**Candidate Species**

Amphibians

California tiger salamander, *Ambystoma californiense* (C)

Fish

Central Valley fall/late fall-run chinook salmon, *Oncorhynchus tshawytscha* (C) NMFS

Critical habitat, Central Valley fall/late fall-run chinook, *Oncorhynchus tshawytscha* (C) NMFS

**Species of Concern**

## Mammals

- Pacific western big-eared bat, *Corynorhinus (=Plecotus) townsendii townsendii* (SC)
- greater western mastiff-bat, *Eumops perotis californicus* (SC)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-eared myotis bat, *Myotis evotis* (SC)
- fringed myotis bat, *Myotis thysanodes* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- San Francisco dusky-footed woodrat, *Neotoma fuscipes annectens* (SC)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)
- Alameda Island mole, *Scapanus latimanus parvus* (SC)
- salt marsh vagrant shrew, *Sorex vagrans halicoetes* (SC)
- Berkeley kangaroo rat, *Dipodomys heermanni berkeleyensis* (SC) \*

## Birds

- little willow flycatcher, *Empidonax traillii brewsteri* (CA)
- black rail, *Laterallus jamaicensis coturniculus* (CA)
- bank swallow, *Riparia riparia* (CA)
- Aleutian Canada goose, *Branta canadensis leucopareia* (D)
- American peregrine falcon, *Falco peregrinus anatum* (D)
- Snowy Egret, *Egretta thula* (MB)
- tricolored blackbird, *Agelaius tricolor* (SC)
- grasshopper sparrow, *Ammodramus savannarum* (SC)
- Bell's sage sparrow, *Amphispiza belli belli* (SC)
- short-eared owl, *Asio flammeus* (SC)
- western burrowing owl, *Athene cunicularia hypugaea* (SC)
- American bittern, *Botaurus lentiginosus* (SC)
- ferruginous hawk, *Buteo regalis* (SC)

Costa's hummingbird, *Calypte costae* (SC)  
Lawrence's goldfinch, *Carduelis lawrencei* (SC)  
Vaux's swift, *Chaetura vauxi* (SC)  
olive-sided flycatcher, *Contopus cooperi* (SC)  
hermit warbler, *Dendroica occidentalis* (SC)  
white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)  
common loon, *Gavia immer* (SC)  
saltmarsh common yellowthroat, *Geothlypis trichas sinuosa* (SC)  
loggerhead shrike, *Lanius ludovicianus* (SC)  
Lewis' woodpecker, *Melanerpes lewis* (SC)  
Alameda (South Bay) song sparrow, *Melospiza melodia pusillula* (SC)  
long-billed curlew, *Numenius americanus* (SC)  
white-faced ibis, *Plegadis chihi* (SC)  
rufous hummingbird, *Selasphorus rufus* (SC)  
Allen's hummingbird, *Selasphorus sasin* (SC)  
California thrasher, *Toxostoma redivivum* (SC)  
oak titmouse, *Baeolophus inornatus* (SLC)

#### Reptiles

silvery legless lizard, *Anniella pulchra pulchra* (SC)  
northwestern pond turtle, *Clemmys marmorata marmorata* (SC)  
southwestern pond turtle, *Clemmys marmorata pallida* (SC)  
San Joaquin coachwhip (=whipsnake), *Masticophis flagellum ruddocki* (SC)  
California horned lizard, *Phrynosoma coronatum frontale* (SC)

#### Amphibians

foothill yellow-legged frog, *Rana boylei* (SC)  
western spadefoot toad, *Spea hammondi* (SC)

#### Fish

green sturgeon, *Acipenser medirostris* (SC)

river lamprey, *Lampetra ayresi* (SC)

Pacific lamprey, *Lampetra tridentata* (SC)

longfin smelt, *Spirinchus thaleichthys* (SC)

#### Invertebrates

Opler's longhorn moth, *Adela oplerella* (SC)

Bridges' Coast Range shoulderband snail, *Helminthoglypta nickliniana bridgesi* (SC)

Ricksecker's water scavenger beetle, *Hydrochara rickseckeri* (SC)

curved-foot hygrotus diving beetle, *Hygrotus curvipes* (SC)

California linderiella fairy shrimp, *Linderiella occidentalis* (SC)

Fairmont (=Lum's) microblind harvestman, *Microcina lumi* (SC)

San Francisco lacewing, *Nothochrysa californica* (SC)

#### Plants

San Francisco popcornflower, *Plagiobothrys diffusus* (CA)

Sharsmith's onion, *Allium sharsmithae* (SC)

alkali milk-vetch, *Astragalus tener* var. *tener* (SC)

heartscale, *Atriplex cordulata* (SC)

brittlescale, *Atriplex depressa* (SC)

San Joaquin spearscale (=saltbush), *Atriplex joaquiniana* (SC)

Big plant, *Blepharizonia plumosa* ssp. *plumosa* (SC)

Mt. Hamilton thistle, *Cirsium fontinale* var. *campylon* (SC)

South Bay clarkia (=Santa Clara red ribbons), *Clarkia concinna* ssp. *automixa* (SC)

hispid bird's-beak, *Cordylanthus mollis* ssp. *hispidus* (SC)

Mt. Hamilton coreopsis, *Coreopsis hamiltonii* (SC)

Livermore tarplant, *Deinandra bacigalupii* (SC)

interior California (Hospital Canyon) larkspur, *Delphinium californicum* ssp. *interius* (SC)

recurved larkspur, *Delphinium recurvatūm* (SC)

Ben Lomond buckwheat (= naked buckwheat), *Eriogonum nudum* var. *decurrens* (SC)

Hoover's button-celery, *Eryngium aristulatum* var. *hooveri* (SC)

diamond-petaled California poppy, *Eschscholzia rhombipetala* (SC)  
talus fritillary, *Fritillaria falcata* (SC)  
fragrant fritillary (= prairie bells), *Fritillaria liliacea* (SC)  
Diablo helianthella (=rock-rose), *Helianthella castanea* (SC)  
Congdon's tarplant, *Hemizonia parryi* ssp. *congdonii* (SC)  
Napa western flax, *Hesperolinon serpentinum* (SC)  
delta tule-pea, *Lathyrus jepsonii* var. *jepsonii* (SC)  
Mason's lilaeopsis, *Lilaeopsis masonii* (SC)  
large-flowered (=flower) linanthus, *Linanthus grandiflorus* (SC)  
little mousetail, *Myosurus minimus* ssp. *apus* (SC)  
most beautiful (uncommon) jewelflower, *Streptanthus albidus* ssp. *peramoenus* (SC)  
water sack (=saline) clover, *Trifolium depauperatum* var. *hydrophilum* (SC)  
bent-flowered fiddleneck, *Amsinckia lunaris* (SLC)  
big-scale (=California) balsamroot, *Balsamorhiza macrolepis* var. *macrolepis* (SLC)  
chaparral harebell (=bellflower), *Campanula exigua* (SLC)  
salt marsh owl's clover (=johnny-nip), *Castilleja ambigua* ssp. *ambigua* (SLC)  
Hoover's cryptantha, *Cryptantha hooveri* (SLC)  
western leatherwood, *Dirca occidentalis* (SLC)  
Tiburon buckwheat, *Eriogonum caninum* (SLC)  
stinkbells, *Fritillaria agrestis* (SLC)  
serpentine bedstraw, *Galium andrewsii* ssp. *gatense* (SLC)  
robust monardella (=robust coyote mint), *Monardella villosa* ssp. *globosa* (SLC)  
Pacific cordgrass (=California cordgrass), *Sparina foliosa* (SLC)  
San Francisco Bay spineflower, *Chorizanthe cuspidata* var. *cuspidata* (SC) \*  
northcoast (=Point Reyes) bird's-beak, *Cordylanthus maritimus* ssp. *palustris* (SC) \*  
Loma Prieta hoita, *Hoita strobilina* (SC) \*  
Kellogg's horkelia, *Horkelia cuneata* ssp. *sericea* (SC) \*  
prostrate navarretia (=prostrate pincushionplant), *Navarretia prostrata* (SC) \*

adobe sanicle, *Sanicula maritima* (SC) \*

Lemmon's jewelflower, *Caulanthus coulteri var lemmonii* (SLC) \*

Choris's (=artist's) popcorn-flower, *Plagiobothrys chorisianus var chorisianus* (SLC) \*

hairless allocarya (=popcornflower), *Plagiobothrys glaber* (SC) \*\*

caper-fruited tropidocarpum, *Tropidocarpum capparideum* (SC) \*\*

Hall's bush mallow, *Malacothamnus hallii* (=M. fasciculatus) (SLC)

KEY:

(E)	<i>Endangered</i>	Listed (in the Federal Register) as being in danger of extinction.
(T)	<i>Threatened</i>	Listed as likely to become endangered within the foreseeable future.
(P)	<i>Proposed</i>	Officially proposed (in the Federal Register) for listing as endangered or threatened.
(PX)	<i>Proposed Critical Habitat</i>	Proposed as an area essential to the conservation of the species.
(C)	<i>Candidate</i>	Candidate to become a <i>proposed</i> species.
(SC)	<i>Species of Concern</i>	Other species of concern to the Service.
(SLC)	<i>Species of Local Concern</i>	Species of local or regional concern or conservation significance.
(D)	<i>Delisted</i>	Delisted. Status to be monitored for 5 years.
(CA)	<i>State-Listed</i>	Listed as threatened or endangered by the State of California.
NMFS	NMFS species	Under the jurisdiction of the National Marine Fisheries Service. Contact them directly.
*	<i>Extirpated</i>	Possibly extirpated from the area.
**	<i>Extinct</i>	Possibly extinct
	<i>Critical Habitat</i>	Area essential to the conservation of a species.

ENCLOSURE A

Endangered and Threatened Species that May Occur in  
or be Affected by Projects in the Selected Quads Listed Below

Reference File No. 1-1-02-SP-2185

June 10, 2002

QUAD: 427B MILPITAS

**Listed Species**

Mammals

salt marsh harvest mouse, *Reithrodontomys raviventris* (E)

riparian brush rabbit, *Sylvilagus bachmani riparius* (E) \*

San Joaquin kit fox, *Vulpes macrotis mutica* (E)

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

California clapper rail, *Rallus longirostris obsoletus* (E)

California least tern, *Sterna antillarum (=albifrons) browni* (E)

Reptiles

Alameda whipsnake, *Masticophis lateralis euryxanthus* (T)

Critical habitat, Alameda whipsnake, *Masticophis lateralis euryxanthus* (T)

Amphibians

California red-legged frog, *Rana aurora draytonii* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)

Central California Coastal steelhead, *Oncorhynchus mykiss* (T) NMFS

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

winter-run chinook salmon, *Oncorhynchus tshawytscha* (E) NMFS

Central Valley spring-run chinook salmon, *Oncorhynchus tshawytscha* (T) NMFS

Critical Habitat, Central Valley spring-run chinook, *Oncorhynchus tshawytscha* (T) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Invertebrates

bay checkerspot butterfly, *Euphydryas editha bayensis* (T)

vernal pool tadpole shrimp, *Lepidurus packardii* (E)

Plants

Contra Costa goldfields, *Lasthenia conjugens* (E)

**Candidate Species**

Amphibians

California tiger salamander, *Ambystoma californiense* (C)

Fish

Central Valley fall/late fall-run chinook salmon, *Oncorhynchus tshawytscha* (C) NMFS

Critical habitat, Central Valley fall/late fall-run chinook, *Oncorhynchus tshawytscha* (C) NMFS

### **Species of Concern**

#### Mammals

Pacific western big-eared bat, *Corynorhinus (=Plecotus) townsendii townsendii* (SC)  
 greater western mastiff-bat, *Eumops perotis californicus* (SC)  
 small-footed myotis bat, *Myotis ciliolabrum* (SC)  
 long-eared myotis bat, *Myotis evotis* (SC)  
 fringed myotis bat, *Myotis thysanodes* (SC)  
 long-legged myotis bat, *Myotis volans* (SC)  
 Yuma myotis bat, *Myotis yumanensis* (SC)  
 San Francisco dusky-footed woodrat, *Neotoma fuscipes annectens* (SC)  
 salt marsh vagrant shrew, *Sorex vagrans halicoetes* (SC)

#### Birds

tricolored blackbird, *Agelaius tricolor* (SC)  
 grasshopper sparrow, *Ammodramus savannarum* (SC)  
 Bell's sage sparrow, *Amphispiza belli belli* (SC)  
 short-eared owl, *Asio flammeus* (SC)  
 western burrowing owl, *Athene cunicularia hypugaea* (SC)  
 ferruginous hawk, *Buteo regalis* (SC)  
 Costa's hummingbird, *Calypte costae* (SC)  
 Lawrence's goldfinch, *Carduelis lawrencei* (SC)  
 Vaux's swift, *Chaetura vauxi* (SC)  
 black tern, *Chlidonias niger* (SC)  
 black swift, *Cypseloides niger* (SC)  
 hermit warbler, *Dendroica occidentalis* (SC)  
 white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)  
 little willow flycatcher, *Empidonax traillii brewsteri* (CA)  
 American peregrine falcon, *Falco peregrinus anatum* (D)  
 saltmarsh common yellowthroat, *Geothlypis trichas sinuosa* (SC)  
 loggerhead shrike, *Lanius ludovicianus* (SC)  
 Lewis' woodpecker, *Melanerpes lewis* (SC)  
 Alameda (South Bay) song sparrow, *Melospiza melodia pusillula* (SC)  
 long-billed curlew, *Numenius americanus* (SC)  
 bank swallow, *Riparia riparia* (CA)  
 rufous hummingbird, *Selasphorus rufus* (SC)  
 Allen's hummingbird, *Selasphorus sasin* (SC)



## Reptiles

- silvery legless lizard, *Anniella pulchra pulchra* (SC)
- northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
- southwestern pond turtle, *Clemmys marmorata pallida* (SC)
- California horned lizard, *Phrynosoma coronatum frontale* (SC)

## Amphibians

- foothill yellow-legged frog, *Rana boylei* (SC)
- western spadefoot toad, *Spea hammondi* (SC)

## Fish

- longfin smelt, *Spirinchus thaleichthys* (SC)

## Invertebrates

- Opler's longhorn moth, *Adela oplerella* (SC)
- Ricksecker's water scavenger beetle, *Hydrochara rickseckeri* (SC)

## Plants

- alkali milk-vetch, *Astragalus tener* var. *tener* (SC)
- San Joaquin spearscale (=saltbush), *Atriplex joaquiniana* (SC)
- salt marsh owl's clover (=johnny-nip), *Castilleja ambigua* ssp. *ambigua* (SLC)
- northcoast (=Point Reyes) bird's-beak, *Cordylanthus maritimus* ssp. *palustris* (SC) \*
- Hoover's button-celery, *Eryngium aristulatum* var. *hooveri* (SC)
- Congdon's tarplant, *Hemizonia parryi* ssp. *congdonii* (SC)
- arcuate bush mallow, *Malacothamnus arcutatus* (=M. *fasciculat*) (SLC)
- prostrate navarretia (=prostrate pincushionplant), *Navarretia prostrata* (SC) \*

QUAD: 446C NILES

**Listed Species**

## Mammals

- riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) \*
- salt marsh harvest mouse, *Reithrodontomys raviventris* (E)
- riparian brush rabbit, *Sylvilagus bachmani riparius* (E) \*
- San Joaquin kit fox, *Vulpes macrotis mutica* (E)

## Birds

- bald eagle, *Haliaeetus leucocephalus* (T)
- California least tern, *Sterna antillarum* (=albifrons) *browni* (E)

## Reptiles

- Alameda whipsnake, *Masticophis lateralis euryxanthus* (T)
- Critical habitat, Alameda whipsnake, *Masticophis lateralis euryxanthus* (T)

## Amphibians

California red-legged frog, *Rana aurora draytonii* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)

Central California Coastal steelhead, *Oncorhynchus mykiss* (T) NMFS

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

winter-run chinook salmon, *Oncorhynchus tshawytscha* (E) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Invertebrates

vernal pool fairy shrimp, *Branchinecta lynchi* (T)

bay checkerspot butterfly, *Euphydryas editha bayensis* (T)

vernal pool tadpole shrimp, *Lepidurus packardii* (E)

**Candidate Species**

Amphibians

California tiger salamander, *Ambystoma californiense* (C)

Fish

Central Valley fall/late fall-run chinook salmon, *Oncorhynchus tshawytscha* (C) NMFS

**Species of Concern**

Mammals

Pacific western big-eared bat, *Corynorhinus (=Plecotus) townsendii townsendii* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

San Francisco dusky-footed woodrat, *Neotoma fuscipes annectens* (SC)

Birds

tricolored blackbird, *Agelaius tricolor* (SC)

grasshopper sparrow, *Ammodramus savannarum* (SC)

Bell's sage sparrow, *Amphispiza belli belli* (SC)

short-eared owl, *Asio flammeus* (SC)

western burrowing owl, *Athene cunicularia hypugaea* (SC)

ferruginous hawk, *Buteo regalis* (SC)

Costa's hummingbird, *Calypte costae* (SC)

Lawrence's goldfinch, *Carduelis lawrencei* (SC)

Vaux's swift, *Chaetura vauxi* (SC)

black tern, *Chlidonias niger* (SC)  
 black swift, *Cypseloides niger* (SC)  
 hermit warbler, *Dendroica occidentalis* (SC)  
 white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)  
 little willow flycatcher, *Empidonax traillii brewsteri* (CA)  
 American peregrine falcon, *Falco peregrinus anatum* (D)  
 saltmarsh common yellowthroat, *Geothlypis trichas sinuosa* (SC)  
 loggerhead shrike, *Lanius ludovicianus* (SC)  
 Lewis' woodpecker, *Melanerpes lewis* (SC)  
 Alameda (South Bay) song sparrow, *Melospiza melodia pusillula* (SC)  
 long-billed curlew, *Numenius americanus* (SC)  
 bank swallow, *Riparia riparia* (CA)  
 rufous hummingbird, *Selasphorus rufus* (SC)  
 Allen's hummingbird, *Selasphorus sasin* (SC)

#### Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC)  
 southwestern pond turtle, *Clemmys marmorata pallida* (SC)  
 California horned lizard, *Phrynosoma coronatum frontale* (SC)

#### Amphibians

foothill yellow-legged frog, *Rana boylei* (SC)

#### Fish

longfin smelt, *Spirinchus thaleichthys* (SC)

#### Invertebrates

Opler's longhorn moth, *Adela oplerella* (SC)  
 Ricksecker's water scavenger beetle, *Hydrochara rickseckeri* (SC)  
 California linderiella fairy shrimp, *Linderiella occidentalis* (SC)

#### Plants

chaparral harebell (=bellflower), *Campanula exigua* (SLC)  
 South Bay clarkia (=Santa Clara red ribbons), *Clarkia concinna ssp. automixa* (SC)  
 Congdon's tarplant, *Hemizonia parryi ssp. congdonii* (SC)  
 delta tule-pea, *Lathyrus jepsonii var. jepsonii* (SC)  
 robust monardella (=robust coyote mint), *Monardella villosa ssp globosa* (SLC)  
 Choris's (=artist's) popcorn-flower, *Plagiobothrys chorisianus var chorisianus* (SLC)  
 most beautiful (uncommon) jewelflower, *Streptanthus albidus ssp. peramoenus* (SC)

## KEY:

(E)	<i>Endangered</i>	Listed (in the Federal Register) as being in danger of extinction.
(T)	<i>Threatened</i>	Listed as likely to become endangered within the foreseeable future.
(P)	<i>Proposed</i>	Officially proposed (in the Federal Register) for listing as endangered or threatened.
(PX)	<i>Proposed Critical Habitat</i>	Proposed as an area essential to the conservation of the species.
(C)	<i>Candidate</i>	Candidate to become a <i>proposed</i> species.
(SC)	<i>Species of Concern</i>	May be endangered or threatened. Not enough biological information has been gathered to support listing at this time.
(SLC)	<i>Species of Local Concern</i>	Species of local or regional concern or conservation significance.
(MB)	<i>Migratory Bird</i>	Migratory bird
NMFS	NMFS species	Under the jurisdiction of the National Marine Fisheries Service. Contact them directly.
(D)	<i>Delisted</i>	Delisted. Status to be monitored for 5 years.
(CA)	<i>State-Listed</i>	Listed as threatened or endangered by the State of California.
(*)	<i>Extirpated</i>	Possibly extirpated from this quad.
(**)	<i>Extinct</i>	Possibly extinct.
	<i>Critical Habitat</i>	Area essential to the conservation of a species.