

Appendix H  
**USFWS Species List**

## United States Department of the Interior

## FISH AND WILDLIFE SERVICE

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



March 24, 2005

Document Number: 050324024021

Stephanie Myers  
Jones & Stokes  
2600 V Street  
Sacramento, ca 95818

Subject: Species List for Mare Island Dredged Material Disposal Ponds

Dear: Ms. Myers

We are sending this official species list in response to your March 24, 2005 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested. You have stated that this list is for consultation with the Fish & Wildlife Service.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

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. However, we recommend that you get an updated list every 90 days. That would be June 22, 2005.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at [sacramento.fws.gov/es/branches.htm](http://sacramento.fws.gov/es/branches.htm).

Endangered Species Division



**Federal Endangered and Threatened Species that Occur in  
or may be Affected by Projects in the Counties and/or  
U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 050324024021

Database Last Updated: March 16, 2005

**Quad Lists**

**No quad species lists requested.**

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**County Lists**

**Solano County**

**Listed Species**

*Invertebrates*

*Branchinecta conservatio* - Conservancy fairy shrimp (E)  
*Branchinecta lynchi* - vernal pool fairy shrimp (T)  
*Desmocerus californicus dimorphus* - valley elderberry longhorn beetle (T)  
*Elaphrus viridis* - Critical habitat, delta green ground beetle (T)  
*Elaphrus viridis* - delta green ground beetle (T)  
*Lepidurus packardi* - vernal pool tadpole shrimp (E)  
*Speyeria callippe callippe* - callippe silverspot butterfly (E)

*Fish*

*Hypomesus transpacificus* - Critical habitat, delta smelt (T)  
*Hypomesus transpacificus* - delta smelt (T)  
*Oncorhynchus kisutch* - coho salmon - central CA coast (T)  
*Oncorhynchus mykiss* - Central California Coastal steelhead (T)  
*Oncorhynchus mykiss* - Central Valley steelhead (T)  
*Oncorhynchus tshawytscha* - Central Valley spring-run chinook salmon (T)  
*Oncorhynchus tshawytscha* - Critical habitat, winter-run chinook salmon (E)  
*Oncorhynchus tshawytscha* - winter-run chinook salmon (E)

*Amphibians*

*Ambystoma californiense* - California tiger salamander (T)  
*Rana aurora draytonii* - California red-legged frog (T)

*Reptiles*

*Masticophis lateralis euryxanthus* - Alameda whipsnake (T)  
*Thamnophis gigas* - giant garter snake (T)

*Birds*

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

**Mammals**

*Neotoma fuscipes riparia* - riparian (San Joaquin Valley) woodrat (E)  
*Reithrodontomys raviventris* - salt marsh harvest mouse (E)  
*Sylvilagus bachmani riparius* - riparian brush rabbit (E)

**Plants**

*Cirsium hydrophilum* var. *hydrophilum* - Suisun thistle (E)  
*Cordylanthus mollis* ssp. *mollis* - soft bird's-beak (E)  
*Lasthenia conjugens* - Contra Costa goldfields (E)  
*Neostapfia colusana* - Colusa grass (T)  
*Trifolium amoenum* - showy Indian clover (E)  
*Tuctoria mucronata* - Solano grass (=Crampton's tuctoria) (E)

**Proposed Species****Amphibians**

*Ambystoma californiense* - Critical habitat, CA tiger salamander - proposed Central Valley pop. (PX)  
*Rana aurora draytonii* - Critical habitat, California red-legged frog (Proposed) (PX)

**Candidate Species****Fish**

*Acipenser medirostris* - green sturgeon (C)  
*Oncorhynchus tshawytscha* - Central Valley fall/late fall-run chinook salmon (C)  
*Oncorhynchus tshawytscha* - Critical habitat, Central Valley fall/late fall-run chinook (C)

**Birds**

*Coccyzus americanus occidentalis* - Western yellow-billed cuckoo (C)

**Species of Concern****Invertebrates**

*Anthicus antiochensis* - Antioch Dunes anthicid beetle (SC)  
*Anthicus sacramento* - Sacramento anthicid beetle (SC)  
*Branchinecta mesovallensis* - Midvalley fairy shrimp (SC)  
*Coelus gracilis* - San Joaquin dune beetle (SC)  
*Hydrochara rickseckeri* - Ricksecker's water scavenger beetle (SC)  
*Linderiella occidentalis* - California linderiella fairy shrimp (SC)  
*Nothochrysa californica* - San Francisco lacewing (SC)

**Fish**

*Lampetra ayresi* - river lamprey (SC)  
*Lampetra tridentata* - Pacific lamprey (SC)  
*Pogonichthys macrolepidotus* - Sacramento splittail (SC)  
*Spirinchus thaleichthys* - longfin smelt (SC)

**Amphibians**

*Rana boylei* - foothill yellow-legged frog (SC)  
*Spea hammondi* (*was Scaphiopus h.*) - western spadefoot toad (SC)

**Reptiles**

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

**Birds**

*Agelaius tricolor* - tricolored blackbird (SC)  
*Athene cunicularia hypugaea* - western burrowing owl (SC)  
*Baeolophus inornatus* - oak titmouse (SLC)  
*Botaurus lentiginosus* - American bittern (SC)  
*Branta canadensis leucopareia* - Aleutian Canada goose (D)  
*Buteo regalis* - ferruginous hawk (SC)  
*Buteo Swainsoni* - Swainson's hawk (CA)  
*Carduelis lawrencei* - Lawrence's goldfinch (SC)  
*Chaetura vauxi* - Vaux's swift (SC)  
*Charadrius montanus* - mountain plover (SC)  
*Contopus cooperi* - olive-sided flycatcher (SC)  
*Elanus leucurus* - white-tailed (=black shouldered) kite (SC)  
*Empidonax traillii brewsteri* - little willow flycatcher (CA)  
*Falco peregrinus anatum* - American peregrine falcon (D)  
*Geothlypis trichas sinuosa* - saltmarsh common yellowthroat (SC)  
*Grus canadensis tabida* - greater sandhill crane (CA)  
*Lanius ludovicianus* - loggerhead shrike (SC)  
*Laterallus jamaicensis coturniculus* - black rail (CA)  
*Limosa fedoa* - marbled godwit (SC)  
*Melospiza melodia maxillaris* - Suisun song sparrow (SC)  
*Melospiza melodia samuelis* - San Pablo song sparrow (SC)  
*Numenius americanus* - long-billed curlew (SC)  
*Numenius phaeopus* - whimbrel (SC)  
*Plegadis chihi* - white-faced ibis (SC)  
*Riparia riparia* - bank swallow (CA)  
*Selasphorus rufus* - rufous hummingbird (SC)  
*Selasphorus sasin* - Allen's hummingbird (SC)  
*Toxostoma redivivum* - California thrasher (SC)

**Mammals**

*Corynorhinus (=Plecotus) townsendii townsendii* - Pacific western big-eared bat (SC)  
*Eumops perotis californicus* - greater western mastiff-bat (SC)

*Myotis ciliolabrum* - small-footed myotis bat (SC)  
*Myotis evotis* - long-eared myotis bat (SC)  
*Myotis thysanodes* - fringed myotis bat (SC)  
*Myotis volans* - long-legged myotis bat (SC)  
*Myotis yumanensis* - Yuma myotis bat (SC)  
*Neotoma fuscipes annectens* - San Francisco dusky-footed woodrat (SC)  
*Perognathus inornatus* - San Joaquin pocket mouse (SC)  
*Sorex ornatus sinuosus* - Suisun ornate shrew (SC)

#### Plants

*Aster lentus* - Suisun Marsh aster (SC)  
*Astragalus tener var. ferrisiae* - Ferris's milk-vetch (SC)  
*Astragalus tener var. tener* - alkali milk-vetch (SC)  
*Atriplex cordulata* - heartscale (SC)  
*Atriplex depressa* - brittle-scale (SC)  
*Atriplex joaquiniana* - San Joaquin spearscale (=saltbush) (SC)  
*Atriplex persistens* - vernal pool (=persistent-fruited, Sacramento) saltbush (=smallscale, salt-scale) (SC)  
*Balsamorhiza macrolepis var. macrolepis* - big-scale (=California) balsamroot (SLC)  
*Blepharizonia plumosa ssp. plumosa* - big tarplant (SC)  
*Calochortus pulchellus* - Mt. Diablo fairy-lantern (SLC)  
*Castilleja ambigua ssp. ambigua* - salt marsh owl's clover (=johnny-nip) (SLC)  
*Ceanothus purpureus* - holly-leaved ceanothus (SLC)  
*Cordylanthus mollis ssp. hispidus* - hispid bird's-beak (SC)  
*Delphinium recurvatum* - recurved larkspur (SC)  
*Fritillaria liliacea* - fragrant fritillary (= prairie bells) (SC)  
*Fritillaria pluriflora* - adobe lily (SC)  
*Gratiola heterosepala* - Boggs Lake hedge-hyssop (CA)  
*Hemizonia parryi ssp. congdonii* - Congdon's tarplant (SC)  
*Hesperolinon breweri* - Brewer's dwarf-flax (=western flax) (SC)  
*Isocoma arguta* - Carquinez goldenbush (SC)  
*Juglans californica var. hindsii* - Northern California black walnut (SC)  
*Lathyrus jepsonii var. jepsonii* - delta tule-pea (SC)  
*Legenere limosa* - legenere (SC)  
*Lepidium latipes var. heckardii* - Heckard's pepper-grass (SLC)  
*Lilaeopsis masonii* - Mason's lilaeopsis (SC)  
*Myosurus minimus ssp. apus* - little mousetail (SC)  
*Navarretia leucocephala ssp. bakeri* - Baker's narvarretia (SC)  
*Perideridia gairdneri ssp. gairdneri* - Gairdner's yampah (SC)  
*Plagiobothrys hystriculus* - bearded allocarya (popcorn-flower) (SC)  
*Polygonum marinense* - Marin knotweed (SLC)  
*Spartina foliosa* - Pacific cordgrass (=California cordgrass) (SLC)  
*Trifolium depauperatum var. hydrophilum* - water sack (=saline) clover (SC)

#### Key:

(E) *Endangered* - Listed (in the Federal Register) as being in danger of extinction.

(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed (in the Federal Register) for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the [National Marine Fisheries Service](#). Consult with them directly about these species.

*Critical Habitat*- Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat*- The species is already listed. Critical habitat is being proposed for it.

(C) *Candidate* - Candidate to become a proposed species.

(CA) Listed by the State of California but not by the Fish & Wildlife Service.

(D) *Delisted* - Species will be monitored for 5 years.

(SC) *Species of Concern* (SLC) Species of Local Concern Other species of concern to the Sacramento Fish & Wildlife Office.

(X) *Critical Habitat* designated for this species

## 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.

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. Plants may exist in an area without ever having been detected there. You can find out what's in the nine surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

### 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 [Guidelines for Conducting and Reporting Botanical Inventories](#). 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 [Wildlife and Habitat Data Analysis Branch](#) for official information about these species.

## Your Responsibilities Under the Endangered Species Act

All plants and animals identified as listed above 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 §7.3).

### 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. 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). See our critical habitat page for maps.

## **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.

## **Species of Concern**

Your list may contain a section called Species of Concern. This is an informal term that refers to those species that the Sacramento Fish and Wildlife Office believes might be in need of concentrated conservation actions. Such conservation actions vary depending on the health of the populations and degree and types of threats. At one extreme, there may only need to be periodic monitoring of populations and threats to the species and its habitat. At the other extreme, a species may need to be listed as a Federal threatened or endangered species. Species of concern receive no legal protection and the use of the term does not necessarily mean that the species will eventually be proposed for listing as a threatened or endangered species.

**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. However, we recommend that you get an updated list every 90 days. That would be June 22, 2005.