APPENDIX A

Species List Provided By USFWS

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W2605
Sacramento, California 95825

IN REPLY REFER TO:
1-1-02-SP-0949

February 20, 2002

E.J. Koford and Debra Crowe
CH2M HILL
2485 Natomas Park Drive
Sacramento, California 95833

Subject: Species List for Cosumnes Power Plant

Dear E.J. and Debra:

We are sending the enclosed list in response to your , request for information about endangered and threatened species (Enclosure A). The list covers the following U.S. Geological Survey 7 1/2 minute quads:

495C	CLAY
495D	GOOSE CREEK
496A	ELK GROVE
496B	FLORIN
496C	BRUCEVILLE
496D	GALT

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. Contact Ken Fuller at (916) 414-6645, 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 Harry Mossman at this address. You may fax requests to him at (916) 414-6712 or 414-6713.

Sincerely,

Harry Mossman

for Jan C. Knight, Chief
Endangered Species Division

Enclosures

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-TA-0501
Cosumnes Power Plant
February 20, 2002

QUAD: 495C CLAY

Listed Species

Mammals

riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *

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

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

giant garter snake, *Thamnophis gigas* (T)

Amphibians

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

Fish

delta smelt, *Hypomesus transpacificus* (T)

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

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

valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)

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

Plants

fleshy (=succulent) owl's-clover, *Castilleja campestris ssp. succulenta* (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-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

- tricolored blackbird, *Agelaius tricolor* (SC)
- grasshopper sparrow, *Ammodramus savannarum* (SC)
- short-eared owl, *Asio flammeus* (SC)
- western burrowing owl, *Athene cunicularia hypugaea* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- Aleutian Canada goose, *Branta canadensis leucopareia* (D)
- Swainson's hawk, *Buteo Swainsoni* (CA)
- ferruginous hawk, *Buteo regalis* (SC)
- Lawrence's goldfinch, *Carduelis lawrencei* (SC)
- Vaux's swift, *Chaetura vauxi* (SC)
- black tern, *Chlidonias niger* (SC)
- white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)
- little willow flycatcher, *Empidonax traillii brewsteri* (CA)
- American peregrine falcon, *Falco peregrinus anatum* (D)
- greater sandhill crane, *Grus canadensis tabida* (CA)
- loggerhead shrike, *Lanius ludovicianus* (SC)
- Lewis' woodpecker, *Melanerpes lewis* (SC)
- long-billed curlew, *Numenius americanus* (SC)
- Nuttall's woodpecker, *Picoides nuttallii* (SLC)
- white-faced ibis, *Plegadis chihi* (SC)
- bank swallow, *Riparia riparia* (CA)
- rufous hummingbird, *Selasphorus rufus* (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 boylii* (SC)

✓ western spadefoot toad, *Spea hammondii* (SC)

Fish

✓ green sturgeon, *Acipenser medirostris* (SC)

✓ longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

✓ Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)

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

QUAD: 495D GOOSE CREEK

Listed Species

Mammals

— riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *

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

Birds

— bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

— giant garter snake, *Thamnophis gigas* (T)

Amphibians

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

Fish

— delta smelt, *Hypomesus transpacificus* (T)

— 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

— Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Invertebrates

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

— valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)

— vernal pool tadpole shrimp, *Lepidurus packardi* (E)

Plants

— fleshy (=succulent) owl's-clover, *Castilleja campestris ssp. succulenta* (T)

✓ Sacramento Orcutt grass, *Orcuttia viscida* (E)

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

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 Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

tricolored blackbird, *Agelaius tricolor* (SC)

grasshopper sparrow, *Ammodramus savannarum* (SC)

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

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

oak titmouse, *Baeolophus inornatus* (SLC)

Aleutian Canada goose, *Branta canadensis leucopareia* (D)

Swainson's hawk, *Buteo Swainsoni* (CA)

ferruginous hawk, *Buteo regalis* (SC)

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

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

black tern, *Chlidonias niger* (SC)

white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)

American peregrine falcon, *Falco peregrinus anatum* (D)

greater sandhill crane, *Grus canadensis tabida* (CA)

loggerhead shrike, *Lanius ludovicianus* (SC)

Lewis' woodpecker, *Melanerpes lewis* (SC)

long-billed curlew, *Numenius americanus* (SC)

Nuttall's woodpecker, *Picoides nuttallii* (SLC)

white-faced ibis, *Plegadis chihi* (SC)

bank swallow, *Riparia riparia* (CA)

rufous hummingbird, *Selasphorus rufus* (SC)

Brewer's sparrow, *Spizella breweri* (SC)

Reptiles

— northwestern pond turtle, *Clemmys marmorata marmorata* (SC)

— California horned lizard, *Phrynosoma coronatum frontale* (SC)

Amphibians

— foothill yellow-legged frog, *Rana boylii* (SC)

— western spadefoot toad, *Spea hammondii* (SC)

Fish

— green sturgeon, *Acipenser medirostris* (SC)

✓ Kern brook lamprey, *Lampetra hubbsi* (SC)

— longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

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

Plants

✓ Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)

QUAD: 496A ELK GROVE

Listed Species

Mammals

— riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *

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

Birds

— bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

— giant garter snake, *Thamnophis gigas* (T)

Amphibians

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

Fish

✓ Critical habitat, delta smelt, *Hypomesus transpacificus* (T)

— delta smelt, *Hypomesus transpacificus* (T)

— 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

- vernal pool fairy shrimp, *Branchinecta lynchi* (T)
- valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)
- vernal pool tadpole shrimp, *Lepidurus packardi* (E)

Plants

- slender Orcutt grass, *Orcuttia tenuis* (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)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

- tricolored blackbird, *Agelaius tricolor* (SC)
- grasshopper sparrow, *Ammodramus savannarum* (SC)
- short-eared owl, *Asio flammeus* (SC)
- western burrowing owl, *Athene cunicularia hypugaea* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- Aleutian Canada goose, *Branta canadensis leucopareia* (D)
- Swainson's hawk, *Buteo Swainsoni* (CA)
- ferruginous hawk, *Buteo regalis* (SC)
- Lawrence's goldfinch, *Carduelis lawrencei* (SC)
- Vaux's swift, *Chaetura vauxi* (SC)
- black tern, *Chlidonias niger* (SC)

white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
greater sandhill crane, *Grus canadensis tabida* (CA)
loggerhead shrike, *Lanius ludovicianus* (SC)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
Nuttall's woodpecker, *Picoides nuttallii* (SLC)
white-faced ibis, *Plegadis chihi* (SC)
bank swallow, *Riparia riparia* (CA)
rufous hummingbird, *Selasphorus rufus* (SC)

Reptiles

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

Amphibians

— western spadefoot toad, *Spea hammondii* (SC)

Fish

— green sturgeon, *Acipenser medirostris* (SC)
✓ river lamprey, *Lampetra ayresi* (SC)
✓ Pacific lamprey, *Lampetra tridentata* (SC)
— longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

✓ Antioch Dunes anthicid beetle, *Anthicus antiochensis* (SC)
✓ Sacramento anthicic beetle, *Anthicus sacramento* (SC)
— Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
— California linderiella fairy shrimp, *Linderiella occidentalis* (SC)

Plants

— Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)
✓ legenere, *Legenere limosa* (SC)
✓ valley sagittaria (=Sanford's arrowhead), *Sagittaria sanfordii* (SC)

QUAD: 496B FLORIN

Listed Species

Mammals

— riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *
— riparian brush rabbit, *Sylvilagus bachmani riparius* (E) *

Birds

- bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

- giant garter snake, *Thamnophis gigas* (T)

Amphibians

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

Fish

- Critical habitat, delta smelt, *Hypomesus transpacificus* (T)
- delta smelt, *Hypomesus transpacificus* (T)
- 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

- vernal pool fairy shrimp, *Branchinecta lynchi* (T)
- valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)
- vernal pool tadpole shrimp, *Lepidurus packardi* (E)

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)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

tricolored blackbird, *Agelaius tricolor* (SC)
grasshopper sparrow, *Ammodramus savannarum* (SC)
short-eared owl, *Asio flammeus* (SC)
western burrowing owl, *Athene cunicularia hypugaea* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
Aleutian Canada goose, *Branta canadensis leucopareia* (D)
Swainson's hawk, *Buteo Swainsoni* (CA)
ferruginous hawk, *Buteo regalis* (SC)
Lawrence's goldfinch, *Carduelis lawrencei* (SC)
Vaux's swift, *Chaetura vauxi* (SC)
black tern, *Chlidonias niger* (SC)
white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
greater sandhill crane, *Grus canadensis tabida* (CA)
loggerhead shrike, *Lanius ludovicianus* (SC)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
Nuttall's woodpecker, *Picoides nuttallii* (SLC)
white-faced ibis, *Plegadis chihi* (SC)
bank swallow, *Riparia riparia* (CA)
rufous hummingbird, *Selasphorus rufus* (SC)

Reptiles

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

Amphibians

western spadefoot toad, *Spea hammondii* (SC)

Fish

green sturgeon, *Acipenser medirostris* (SC)
river lamprey, *Lampetra ayresi* (SC)
Kern brook lamprey, *Lampetra hubbsi* (SC)
Pacific lamprey, *Lampetra tridentata* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Antioch Dunes anthicid beetle, *Anthicus antiochensis* (SC)
Sacramento anthicid beetle, *Anthicus sacramento* (SC)

- Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
- California linderiella fairy shrimp, *Linderiella occidentalis* (SC)

Plants

- legenere, *Legenere limosa* (SC)
- valley sagittaria (=Sanford's arrowhead), *Sagittaria sanfordii* (SC)

QUAD: 496C BRUCEVILLE

Listed Species

Mammals

- riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *
- riparian brush rabbit, *Sylvilagus bachmani riparius* (E) *

Birds

- bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

- giant garter snake, *Thamnophis gigas* (T)

Amphibians

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

Fish

- Critical habitat, delta smelt, *Hypomesus transpacificus* (T)
- delta smelt, *Hypomesus transpacificus* (T)
- 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

- vernal pool fairy shrimp, *Branchinecta lynchi* (T)
- valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)
- vernal pool tadpole shrimp, *Lepidurus packardi* (E)

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)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

tricolored blackbird, *Agelaius tricolor* (SC)

grasshopper sparrow, *Ammodramus savannarum* (SC)

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

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

oak titmouse, *Baeolophus inornatus* (SLC)

Aleutian Canada goose, *Branta canadensis leucopareia* (D)

Swainson's hawk, *Buteo Swainsoni* (CA)

ferruginous hawk, *Buteo regalis* (SC)

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

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

black tern, *Chlidonias niger* (SC)

white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)

American peregrine falcon, *Falco peregrinus anatum* (D)

greater sandhill crane, *Grus canadensis tabida* (CA)

loggerhead shrike, *Lanius ludovicianus* (SC)

Lewis' woodpecker, *Melanerpes lewis* (SC)

long-billed curlew, *Numenius americanus* (SC)

Nuttall's woodpecker, *Picoides nuttallii* (SLC)

white-faced ibis, *Plegadis chihi* (SC)

bank swallow, *Riparia riparia* (CA)

rufous hummingbird, *Selasphorus rufus* (SC)

Reptiles

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

Amphibians

- foothill yellow-legged frog, *Rana boylii* (SC)
- western spadefoot toad, *Spea hammondii* (SC)

Fish

- green sturgeon, *Acipenser medirostris* (SC)
- river lamprey, *Lampetra ayresi* (SC)
- Kern brook lamprey, *Lampetra hubbsi* (SC)
- Pacific lamprey, *Lampetra tridentata* (SC)
- longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

- Antioch Dunes anthicid beetle, *Anthicus antiochensis* (SC)
- Sacramento anthicid beetle, *Anthicus sacramento* (SC)
- Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
- California linderiella fairy shrimp, *Linderiella occidentalis* (SC)

Plants

- delta tule-pea, *Lathyrus jepsonii var. jepsonii* (SC)
- Mason's lilaeopsis, *Lilaeopsis masonii* (SC)

QUAD: 496D GALT

Listed Species

Mammals

- riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *
- riparian brush rabbit, *Sylvilagus bachmani riparius* (E) *

Birds

- bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

- giant garter snake, *Thamnophis gigas* (T)

Amphibians

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

Fish

- Critical habitat, delta smelt, *Hypomesus transpacificus* (T)
- delta smelt, *Hypomesus transpacificus* (T)
- 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

- vernal pool fairy shrimp, *Branchinecta lynchi* (T)
- valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)
- vernal pool tadpole shrimp, *Lepidurus packardi* (E)

Plants

- fleshy (=succulent) owl's-clover, *Castilleja campestris ssp. succulenta* (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)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

- tricolored blackbird, *Agelaius tricolor* (SC)
- grasshopper sparrow, *Ammodramus savannarum* (SC)
- short-eared owl, *Asio flammeus* (SC)
- western burrowing owl, *Athene cunicularia hypugaea* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- Aleutian Canada goose, *Branta canadensis leucopareia* (D)
- Swainson's hawk, *Buteo Swainsoni* (CA)
- ferruginous hawk, *Buteo regalis* (SC)
- Lawrence's goldfinch, *Carduelis lawrencei* (SC)
- Vaux's swift, *Chaetura vauxi* (SC)
- black tern, *Chlidonias niger* (SC)
- white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)
- little willow flycatcher, *Empidonax traillii brewsteri* (CA)

- American peregrine falcon, *Falco peregrinus anatum* (D)
- greater sandhill crane, *Grus canadensis tabida* (CA)
- loggerhead shrike, *Lanius ludovicianus* (SC)
- Lewis' woodpecker, *Melanerpes lewis* (SC)
- long-billed curlew, *Numenius americanus* (SC)
- Nuttall's woodpecker, *Picoides nuttallii* (SLC)
- white-faced ibis, *Plegadis chihi* (SC)
- bank swallow, *Riparia riparia* (CA)
- rufous hummingbird, *Selasphorus rufus* (SC)

Reptiles

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

Amphibians

- foothill yellow-legged frog, *Rana boylii* (SC)
- western spadefoot toad, *Spea hammondii* (SC)

Fish

- green sturgeon, *Acipenser medirostris* (SC)
- river lamprey, *Lampetra ayresi* (SC)
- Kern brook lamprey, *Lampetra hubbsi* (SC)
- Pacific lamprey, *Lampetra tridentata* (SC)
- longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

- Antioch Dunes anthicid beetle, *Anthicus antiochensis* (SC)
- Sacramento anthicic beetle, *Anthicus sacramento* (SC)
- Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
- California linderiella fairy shrimp, *Linderiella occidentalis* (SC)

Plants

- Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)
- legenere, *Legenere limosa* (SC)
- valley sagittaria (=Sanford's arrowhead), *Sagittaria sanfordii* (SC)

Endangered and Threatened Species that May Occur in or be Affected by
Projects in the Area of the Following California Counties
Reference File No. 1-1-02-TA-0501
February 20, 2002

SACRAMENTO COUNTY

Listed Species

Mammals

- riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *

Birds

- bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

- giant garter snake, *Thamnophis gigas* (T)

Amphibians

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

Fish

- Central Valley spring-run chinook salmon, *Oncorhynchus tshawytscha* (T) NMFS
- Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
- Critical Habitat, Central Valley spring-run chinook, *Oncorhynchus tshawytscha* (T) NMFS
- Critical habitat, Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
- Critical habitat, delta smelt, *Hypomesus transpacificus* (T)
- Critical habitat, winter-run chinook salmon, *Oncorhynchus tshawytscha* (E) NMFS
- Sacramento splittail, *Pogonichthys macrolepidotus* (T)
- delta smelt, *Hypomesus transpacificus* (T)
- winter-run chinook salmon, *Oncorhynchus tshawytscha* (E) NMFS

Invertebrates

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

Plants

- Antioch Dunes evening-primrose, *Oenothera deltoides ssp. howellii* (E)
- Sacramento Orcutt grass, *Orcuttia viscida* (E)
- slender Orcutt grass, *Orcuttia tenuis* (T)
- soft bird's-beak, *Cordylanthus mollis ssp. mollis* (E) *

Proposed Species

Birds

mountain plover, *Charadrius montanus* (PT)

Candidate Species

Birds

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

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)

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

San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

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

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

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

pale Townsend's big-eared bat, *Corynorhinus (=Plecotus) townsendii pallescens* (SC)

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

Birds

Aleutian Canada goose, *Branta canadensis leucopareia* (D)

American bittern, *Botaurus lentiginosus* (SC)

American peregrine falcon, *Falco peregrinus anatum* (D)

Brewer's sparrow, *Spizella breweri* (SC)

California thrasher, *Toxostoma redivivum* (SC)

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

Lewis' woodpecker, *Melanerpes lewis* (SC)

Nuttall's woodpecker, *Picoides nuttallii* (SLC)

Snowy Egret, *Egretta thula* (MB)

Swainson's hawk, *Buteo Swainsoni* (CA)

bank swallow, *Riparia riparia* (CA)

black rail, *Laterallus jamaicensis coturniculus* (CA)

black tern, *Chlidonias niger* (SC)
common loon, *Gavia immer* (SC)
ferruginous hawk, *Buteo regalis* (SC)
grasshopper sparrow, *Ammodramus savannarum* (SC)
greater sandhill crane, *Grus canadensis tabida* (CA)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
loggerhead shrike, *Lanius ludovicianus* (SC)
long-billed curlew, *Numenius americanus* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
short-eared owl, *Asio flammeus* (SC)
tricolored blackbird, *Agelaius tricolor* (SC)
western burrowing owl, *Athene cunicularia hypugaea* (SC)
white-faced ibis, *Plegadis chihi* (SC)
white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)

Reptiles

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

Amphibians

foothill yellow-legged frog, *Rana boylii* (SC)
western spadefoot toad, *Spea hammondii* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)
Pacific lamprey, *Lampetra tridentata* (SC)
green sturgeon, *Acipenser medirostris* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)
river lamprey, *Lampetra ayresi* (SC)

Invertebrates

Antioch Dunes anthicid beetle, *Anthicus antiochensis* (SC)
California linderiella fairy shrimp, *Linderiella occidentalis* (SC)
Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
Sacramento anthicid beetle, *Anthicus sacramento* (SC)
San Joaquin dune beetle, *Coelus gracilis* (SC)
curved-foot hygrotus diving beetle, *Hygrotus curvipes* (SC)

Plants

- Ahart's (dwarf) rush, *Juncus leiospermus var. ahartii* (SC)
- Amador (Bisbee Peak) rush-rose, *Helianthemum suffrutescens* (SLC)
- Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)
- Mason's lilaeopsis, *Lilaeopsis masonii* (SC)
- Northern California black walnut, *Juglans californica var. hindsii* (SC) *
- Red Bluff (dwarf) rush, *Juncus leiospermus var. leiospermus* (SC)
- San Joaquin spearscale (=saltbush), *Atriplex joaquiniana* (SC)
- Suisun Marsh aster, *Aster lentus* (SC)
- Tuolumne coyote-thistle (=button-celery), *Eryngium pinnatisectum* (SC)
- delta tule-pea, *Lathyrus jepsonii var. jepsonii* (SC)
- legenere, *Legenere limosa* (SC)
- pincushion navarretia, *Navarretia myersii spp. myersii* (SC)
- stinkbells, *Fritillaria agrestis* (SLC)
- valley sagittaria (=Sanford's arrowhead), *Sagittaria sanfordii* (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.
(PX)	*Proposed Critical Habitat*	Proposed as an area essential to the conservation of the species.
(C)	*Candidate*	Candidate to become a *proposed* species.
(SC)	*Species of Concern*	Other species of concern to the Service.
(SLC)	*Species of Local Concern*	Species of local or regional concern or conservation significance.
(D)	*Delisted*	Delisted. Status to be monitored for 5 years.
(CA)	*State-Listed*	Listed as threatened or endangered by the State of California.
NMFS	NMFS species	Under jurisdiction of the National Marine Fisheries Service. Contact them directly.
*	*Extirpated*	Possibly extirpated from the area.
**	*Extinct*	Possibly extinct
	Critical Habitat	Area essential to the conservation of a species.