

APPENDIX C

Special-Status Species List

This page intentionally left blank



United States Department of the Interior
FISH AND WILDLIFE SERVICE

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



August 29, 2012

Document Number: 120829105821

Aindrea Jensen
Environmental Science Associates
1425 N. McDowell Boulevard, Suite 200
Petaluma, CA 94952

Subject: Species List for Phillips 66 Company Installation of New Fuel Gas Hydrotreating and Propane Recovery Plants

Dear: Mrs. Jensen

We are sending this official species list in response to your August 29, 2012 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.

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 and candidate 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 November 27, 2012.

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 [here](#).

Endangered Species Division



U.S. Fish & Wildlife Service
Sacramento Fish & Wildlife Office
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: 120829105821

Database Last Updated: September 18, 2011

Quad Lists

BENICIA (482C)

Listed Species

Invertebrates

Branchinecta conservatio

Conservancy fairy shrimp (E)

Branchinecta lynchi

vernal pool fairy shrimp (T)

Speyeria callippe callippe

callippe silverspot butterfly (E)

Syncaris pacifica

California freshwater shrimp (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Hypomesus transpacificus

Critical habitat, delta smelt (X)

delta smelt (T)

Oncorhynchus mykiss

Central Valley steelhead (T) (NMFS)

Critical habitat, Central California coastal steelhead (X) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS)

Critical habitat, winter-run chinook salmon (X) (NMFS)

winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana draytonii

California red-legged frog (T)

Critical habitat, California red-legged frog (X)

Reptiles

Masticophis lateralis euryxanthus

Alameda whipsnake [=striped racer] (T)

Critical habitat, Alameda whipsnake (X)

Thamnophis gigas

giant garter snake (T)

Birds

Charadrius alexandrinus nivosus

western snowy plover (T)

Pelecanus occidentalis californicus

California brown pelican (E)

Rallus longirostris obsoletus

California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni

California least tern (E)

Mammals

Reithrodontomys raviventris

salt marsh harvest mouse (E)

Plants

Cordylanthus mollis ssp. mollis

soft bird's-beak (E)

Lasthenia conjugens

Contra Costa goldfields (E)

Critical habitat, Contra Costa goldfields (X)

Proposed Species

Plants

Cordylanthus mollis ssp. mollis

Critical habitat, soft bird's-beak (PX)

MARE ISLAND (483D)

Listed Species

Invertebrates

Branchinecta conservatio

Conservancy fairy shrimp (E)

Speyeria callippe callippe

callippe silverspot butterfly (E)

Syncaris pacifica

California freshwater shrimp (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Hypomesus transpacificus

delta smelt (T)

Oncorhynchus kisutch

coho salmon - central CA coast (E) (NMFS)

Oncorhynchus mykiss

Central California Coastal steelhead (T) (NMFS)

Central Valley steelhead (T) (NMFS)

Critical habitat, Central California coastal steelhead (X) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS)

Critical habitat, winter-run chinook salmon (X) (NMFS)

winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana draytonii

California red-legged frog (T)

Reptiles

Masticophis lateralis euryxanthus

Alameda whipsnake [=striped racer] (T)

Birds

Charadrius alexandrinus nivosus

western snowy plover (T)

Pelecanus occidentalis californicus

California brown pelican (E)

Rallus longirostris obsoletus

California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni

California least tern (E)

Strix occidentalis caurina

northern spotted owl (T)

Mammals

Reithrodontomys raviventris

salt marsh harvest mouse (E)

Plants

Cordylanthus mollis ssp. mollis

soft bird's-beak (E)

Lasthenia conjugens

Contra Costa goldfields (E)

Critical habitat, Contra Costa goldfields (X)

Proposed Species

Plants

Cordylanthus mollis ssp. mollis

Critical habitat, soft bird's-beak (PX)

County Lists

Contra Costa County

Listed Species

Invertebrates

Apodemia mormo langei

Lange's metalmark butterfly (E)

Branchinecta conservatio

Conservancy fairy shrimp (E)

Branchinecta longiantenna

Critical habitat, longhorn fairy shrimp (X)

longhorn fairy shrimp (E)

Branchinecta lynchi

Critical habitat, vernal pool fairy shrimp (X)

vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus

valley elderberry longhorn beetle (T)

Elaphrus viridis

delta green ground beetle (T)

Lepidurus packardii

vernal pool tadpole shrimp (E)

Speyeria callippe callippe

callippe silverspot butterfly (E)

Syncaris pacifica

California freshwater shrimp (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Eucyclogobius newberryi

tidewater goby (E)

Hypomesus transpacificus

Critical habitat, delta smelt (X)

delta smelt (T)

Oncorhynchus kisutch

coho salmon - central CA coast (E) (NMFS)

Critical habitat, coho salmon - central CA coast (X) (NMFS)

Oncorhynchus mykiss

Central California Coastal steelhead (T) (NMFS)

Central Valley steelhead (T) (NMFS)

Critical habitat, Central California coastal steelhead (X) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS)
Critical Habitat, Central Valley spring-run chinook (X) (NMFS)
Critical habitat, winter-run chinook salmon (X) (NMFS)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense

California tiger salamander, central population (T)
Critical habitat, CA tiger salamander, central population (X)

Rana draytonii

California red-legged frog (T)
Critical habitat, California red-legged frog (X)

Reptiles

Masticophis lateralis euryxanthus

Alameda whipsnake [=striped racer] (T)
Critical habitat, Alameda whipsnake (X)

Thamnophis gigas

giant garter snake (T)

Birds

Charadrius alexandrinus nivosus

western snowy plover (T)

Pelecanus occidentalis californicus

California brown pelican (E)

Rallus longirostris obsoletus

California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni

California least tern (E)

Strix occidentalis caurina

northern spotted owl (T)

Mammals

Reithrodontomys raviventris

salt marsh harvest mouse (E)

Vulpes macrotis mutica

San Joaquin kit fox (E)

Plants

Amsinckia grandiflora

large-flowered fiddleneck (E)

Arctostaphylos pallida

pallid manzanita (=Alameda or Oakland Hills manzanita) (T)

Calochortus tiburonensis

Tiburon mariposa lily (T)

Castilleja affinis ssp. neglecta

Tiburon paintbrush (E)

Chorizanthe robusta var. robusta

robust spineflower (E)

Clarkia franciscana

Presidio clarkia (E)

Cordylanthus mollis ssp. mollis

soft bird's-beak (E)

Cordylanthus palmatus

palmate-bracted bird's-beak (E)

Erysimum capitatum ssp. angustatum

Contra Costa wallflower (E)

Critical Habitat, Contra Costa wallflower (X)

Hesperolinon congestum

Marin dwarf-flax (=western flax) (T)

Holocarpha macradenia

Critical habitat, Santa Cruz tarplant (X)

Santa Cruz tarplant (T)

Lasthenia conjugens

Contra Costa goldfields (E)

Critical habitat, Contra Costa goldfields (X)

Neostapfia colusana

Colusa grass (T)

Oenothera deltoides ssp. howellii

Antioch Dunes evening-primrose (E)

Critical habitat, Antioch Dunes evening-primrose (X)

Pentachaeta bellidiflora

white-rayed pentachaeta (E)

Sidalcea keckii

Keck's checker-mallow (=checkerbloom) (E)

Streptanthus niger

Tiburon jewelflower (E)

Suaeda californica

California sea blite (E)

Trifolium amoenum

showy Indian clover (E)

Proposed Species

Plants

Cordylanthus mollis ssp. mollis

Critical habitat, soft bird's-beak (PX)

Key:

(E) *Endangered* - Listed 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 Oceanic & Atmospheric Administration 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.

(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.

(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 area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the 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 and/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. See our [Protocol](#) and [Recovery Permits](#) pages.

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.

Your Responsibilities Under the Endangered Species Act

All 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 §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. 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 [Map Room](#) page.

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

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

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) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate 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 November 27, 2012.



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S3	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	None	G2G3	S2	SSC
<i>Alkali Meadow</i> Alkali Meadow	CTT45310CA	None	None	G3	S2.1	
<i>Alkali Seep</i> Alkali Seep	CTT45320CA	None	None	G3	S2.1	
<i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	SSC
<i>Amsinckia grandiflora</i> large-flowered fiddleneck	PDBOR01050	Endangered	Endangered	G1	S1	1B.1
<i>Amsinckia lunaris</i> bent-flowered fiddleneck	PDBOR01070	None	None	G2?	S2?	1B.2
<i>Andrena blennospermatis</i> Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S2	
<i>Anniella pulchra pulchra</i> silvery legless lizard	ARACC01012	None	None	G3G4T3T4Q	S3	SSC
<i>Anomobryum julaceum</i> slender silver moss	NBMUS80010	None	None	G4G5	S2	2.2
<i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020	None	None	G1	S1	
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Apodemia mormo langei</i> Lange's metalmark butterfly	IILEPH7012	Endangered	None	G5T1	S1	
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Archoplites interruptus</i> Sacramento perch	AFCQB07010	None	None	G3	S1	SSC
<i>Arctostaphylos auriculata</i> Mt. Diablo manzanita	PDERI04040	None	None	G2	S2	1B.3
<i>Arctostaphylos manzanita ssp. laevigata</i> Contra Costa manzanita	PDERI04273	None	None	G5T2	S2	1B.2
<i>Arctostaphylos pallida</i> pallid manzanita	PDERI04110	Threatened	Endangered	G1	S1	1B.1
<i>Asio flammeus</i> short-eared owl	ABNSB13040	None	None	G5	S3	SSC
<i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1	None	None	G2T2	S2	1B.2
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S2	SSC



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Atriplex cordulata</i> var. <i>cordulata</i> heartscale	PDCHE040B0	None	None	G3T2	S2.2?	1B.2
<i>Atriplex depressa</i> brittlescale	PDCHE042L0	None	None	G2Q	S2.2	1B.2
<i>Atriplex joaquinana</i> San Joaquin spearscale	PDCHE041F3	None	None	G2	S2	1B.2
<i>Blepharizonia plumosa</i> big tarplant	PDAST1C011	None	None	G1	S1	1B.1
<i>Branchinecta longiantenna</i> longhorn fairy shrimp	ICBRA03020	Endangered	None	G1	S1	
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S2S3	
<i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150	None	None	G2	S2	
<i>Branta hutchinsii leucopareia</i> cackling (=Aleutian Canada) goose	ABNJB05035	Delisted	None	G5T4	S2	
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S2	
<i>California macrophylla</i> round-leaved filaree	PDGER01070	None	None	G2	S2	1B.1
<i>Callophrys mossii bayensis</i> San Bruno elfin butterfly	IILEPE2202	Endangered	None	G4T1	S1	
<i>Calochortus pulchellus</i> Mt. Diablo fairy-lantern	PMLIL0D160	None	None	G2	S2	1B.2
<i>Calystegia purpurata</i> ssp. <i>saxicola</i> coastal bluff morning-glory	PDCON040D2	None	None	G4T2	S2.2	1B.2
<i>Campanula exigua</i> chaparral harebell	PDCAM020A0	None	None	G2	S2.2	1B.2
<i>Carex comosa</i> bristly sedge	PMCYP032Y0	None	None	G5	S2	2.1
<i>Centromadia parryi</i> ssp. <i>congdonii</i> Congdon's tarplant	PDAST4R0P1	None	None	G4T2	S2	1B.2
<i>Chloropyron molle</i> ssp. <i>molle</i> soft bird's-beak	PDSCR0J0D2	Endangered	Rare	G2T1	S1	1B.2
<i>Cicuta maculata</i> var. <i>bolanderi</i> Bolander's water-hemlock	PDAPI0M051	None	None	G5T3T4	S2	2.1
<i>Circus cyaneus</i> northern harrier	ABNKC11010	None	None	G5	S3	SSC
<i>Cirsium andrewsii</i> Franciscan thistle	PDAST2E050	None	None	G2	S2.2	1B.2



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Cismontane Alkali Marsh</i> Cismontane Alkali Marsh	CTT52310CA	None	None	G1	S1.1	
<i>Coastal and Valley Freshwater Marsh</i> Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
<i>Coastal Brackish Marsh</i> Coastal Brackish Marsh	CTT52200CA	None	None	G2	S2.1	
<i>Coelus gracilis</i> San Joaquin dune beetle	IICOL4A020	None	None	G1	S1	
<i>Cordylanthus nidularius</i> Mt. Diablo bird's-beak	PDSCR0J0F0	None	Rare	G1	S1.2	1B.1
<i>Cryptantha hooveri</i> Hoover's cryptantha	PDBOR0A190	None	None	GH	SH	1A
<i>Danaus plexippus</i> monarch butterfly	IILEPP2010	None	None	G5	S3	
<i>Delphinium californicum ssp. interius</i> Hospital Canyon larkspur	PDRAN0B0A2	None	None	G3T2?	S2?	1B.2
<i>Delphinium recurvatum</i> recurved larkspur	PDRAN0B1J0	None	None	G3	S3	1B.2
<i>Didymodon norrisii</i> Norris' beard moss	NBMUS2C0H0	None	None	G3G4	S3S4	2.2
<i>Dipodomys heermanni berkeleyensis</i> Berkeley kangaroo rat	AMAFD03061	None	None	G3G4T1	S1	
<i>Dirca occidentalis</i> western leatherwood	PDTHY03010	None	None	G2G3	S2S3	1B.2
<i>Efferia antiochi</i> Antioch efferian robberfly	IIDIP07010	None	None	G1G3	S1S3	
<i>Egretta thula</i> snowy egret	ABNGA06030	None	None	G5	S4	
<i>Elanus leucurus</i> white-tailed kite	ABNKC06010	None	None	G5	S3	FP
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eremophila alpestris actia</i> California horned lark	ABPAT02011	None	None	G5T3Q	S3	WL
<i>Eriastrum brandegeeeae</i> Brandegee's eriastrum	PDPLM03020	None	None	G3	S3	1B.2
<i>Eriogonum nudum var. psychicola</i> Antioch Dunes buckwheat	PDPGN0849Q	None	None	G5T1	S1	1B.1
<i>Eriogonum truncatum</i> Mt. Diablo buckwheat	PDPGN085Z0	None	None	G1	S1.1	1B.1
<i>Eryngium racemosum</i> Delta button-celery	PDAP10Z0S0	None	Endangered	G1Q	S1	1B.1



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Erysimum capitatum var. angustatum</i> Contra Costa wallflower	PDBRA16052	Endangered	Endangered	G5T1	S1	1B.1
<i>Eschscholzia rhombipetala</i> diamond-petaled California poppy	PDPAP0A0D0	None	None	G1	S1.1	1B.1
<i>Eucerceris ruficeps</i> redheaded sphecid wasp	IIHYM18010	None	None	G1G3	S1S2	
<i>Euphydryas editha bayensis</i> Bay checkerspot butterfly	IILEPK4055	Threatened	None	G5T1	S1	
<i>Falco mexicanus</i> prairie falcon	ABNKD06090	None	None	G5	S3	WL
<i>Fritillaria agrestis</i> stinkbells	PMLIL0V010	None	None	G3	S3.2	4.2
<i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
<i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	ABPBX1201A	None	None	G5T2	S2	SSC
<i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S2	FP
<i>Helianthella castanea</i> Diablo helianthella	PDAST4M020	None	None	G2	S2	1B.2
<i>Helminthoglypta nickliniana bridgesi</i> Bridges' coast range shoulderband	IMGASC2362	None	None	G2T1	S1	
<i>Hesperolinon breweri</i> Brewer's western flax	PDLIN01030	None	None	G2	S2	1B.2
<i>Hibiscus lasiocarpus var. occidentalis</i> woolly rose-mallow	PDMAL0H0R3	None	None	G4	S2.2	1B.2
<i>Hoita strobilina</i> Loma Prieta hoita	PDFAB5Z030	None	None	G2	S2	1B.1
<i>Holocarpa macradenia</i> Santa Cruz tarplant	PDAST4X020	Threatened	Endangered	G1	S1	1B.1
<i>Hydroprogne caspia</i> Caspian tern	ABNNM08020	None	None	G5	S4	
<i>Hygrotus curvipes</i> curved-foot hygrotus diving beetle	IICOL38030	None	None	G1	S1	
<i>Hypomesus transpacificus</i> Delta smelt	AFCHB01040	Threatened	Endangered	G1	S1	
<i>Idiostatus middlekauffi</i> Middlekauff's shieldback katydid	IIORT31010	None	None	G1G2	S1	
<i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050	None	None	G1	S1	1B.1
<i>Juglans hindsii</i> Northern California black walnut	PDJUG02040	None	None	G1	S1.1	1B.1



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Lanius ludovicianus</i> loggerhead shrike	ABPBR01030	None	None	G4	S4	SSC
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<i>Lasiurus blossevillii</i> western red bat	AMACC05060	None	None	G5	S3?	SSC
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4?	
<i>Lasthenia conjugens</i> Contra Costa goldfields	PDAST5L040	Endangered	None	G1	S1	1B.1
<i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041	None	Threatened	G4T1	S1	FP
<i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2	None	None	G5T2	S2.2	1B.2
<i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G3	S2S3	
<i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030	None	Rare	G2	S2	1B.1
<i>Limosella subulata</i> Delta mudwort	PDSCR10050	None	None	G4?Q	S2.1	2.1
<i>Linderiella occidentalis</i> California linderiella	ICBRA06010	None	None	G3	S2S3	
<i>Lytta molesta</i> molestan blister beetle	IICOL4C030	None	None	G2	S2	
<i>Madia radiata</i> showy golden madia	PDAST650E0	None	None	G2	S2.1	1B.1
<i>Malacothamnus hallii</i> Hall's bush-mallow	PDMAL0Q0F0	None	None	G2Q	S2	1B.2
<i>Masticophis flagellum ruddocki</i> San Joaquin whipsnake	ARADB21021	None	None	G5T2T3	S2?	SSC
<i>Masticophis lateralis euryxanthus</i> Alameda whipsnake	ARADB21031	Threatened	Threatened	G4T2	S2	
<i>Meconella oregana</i> Oregon meconella	PDPAP0G030	None	None	G2G3	S1.1	1B.1
<i>Melospiza melodia maxillaris</i> Suisun song sparrow	ABPBXA301K	None	None	G5T2	S2	SSC
<i>Melospiza melodia pusillula</i> Alameda song sparrow	ABPBXA301S	None	None	G5T2?	S2?	SSC
<i>Melospiza melodia samuelis</i> San Pablo song sparrow	ABPBXA301W	None	None	G5T2?	S2?	SSC
<i>Metapogon hurdi</i> Hurd's metapogon robberfly	IIDIP08010	None	None	G1G3	S1S3	



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Microtus californicus sanpabloensis</i> San Pablo vole	AMAFF11034	None	None	G5T1T2	S1S2	SSC
<i>Monolopia gracilens</i> woodland woollythreads	PDAST6G010	None	None	G2G3	S2S3	1B.2
<i>Myrmosula pacifica</i> Antioch multilid wasp	IIHYM15010	None	None	GH	SH	
<i>Navarretia gowenii</i> Lime Ridge navarretia	PDPLM0C120	None	None	G1	S1	1B.1
<i>Navarretia nigelliformis ssp. radians</i> shining navarretia	PDPLM0C0J2	None	None	G4T2	S2	1B.2
<i>Neotoma fuscipes annectens</i> San Francisco dusky-footed woodrat	AMAFF08082	None	None	G5T2T3	S2S3	SSC
Northern Claypan Vernal Pool Northern Claypan Vernal Pool	CTT44120CA	None	None	G1	S1.1	
Northern Coastal Salt Marsh Northern Coastal Salt Marsh	CTT52110CA	None	None	G3	S3.2	
Northern Maritime Chaparral Northern Maritime Chaparral	CTT37C10CA	None	None	G1	S1.2	
<i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010	None	None	G5	S3	
<i>Nyctinomops macrotis</i> big free-tailed bat	AMACD04020	None	None	G5	S2	SSC
<i>Oenothera deltooides ssp. howellii</i> Antioch Dunes evening-primrose	PDONA0C0B4	Endangered	Endangered	G5T1	S1	1B.1
<i>Perdita scitula antiochensis</i> Antioch andrenid bee	IIHYM01031	None	None	G1T1	S1	
<i>Perognathus inornatus inornatus</i> San Joaquin pocket mouse	AMAFD01061	None	None	G4T2T3	S2S3	
<i>Phacelia phacelioides</i> Mt. Diablo phacelia	PDHYD0C3Q0	None	None	G1	S1.2	1B.2
<i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020	None	None	G5	S3	WL
<i>Philanthus nasalis</i> Antioch specid wasp	IIHYM20010	None	None	G1	S1	
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G4G5	S3S4	SSC
<i>Potamogeton zosteriformis</i> eel-grass pondweed	PMPOT03160	None	None	G5	S2.2?	2.2
<i>Rallus longirostris obsoletus</i> California clapper rail	ABNME05016	Endangered	Endangered	G5T1	S1	FP
<i>Rana boylei</i> foothill yellow-legged frog	AAABH01050	None	None	G3	S2S3	SSC



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Rana draytonii</i> California red-legged frog	AAABH01022	Threatened	None	G4T2T3	S2S3	SSC
<i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	AMAFF02040	Endangered	Endangered	G1G2	S1S2	FP
<i>Sanicula saxatilis</i> rock sanicle	PDAP11Z0H0	None	Rare	G2	S2	1B.2
<i>Scutellaria galericulata</i> marsh skullcap	PDLAM1U0J0	None	None	G5	S2	2.2
<i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0	None	None	G5	S1	2.2
<i>Senecio aphanactis</i> chaparral ragwort	PDAST8H060	None	None	G3?	S1.2	2.2
<i>Serpentine Bunchgrass</i> Serpentine Bunchgrass	CTT42130CA	None	None	G2	S2.2	
<i>Sorex vagrans halicoetes</i> salt-marsh wandering shrew	AMABA01071	None	None	G5T1	S1	SSC
<i>Sphecodogastra antiochensis</i> Antioch Dunes halcitud bee	IIHYM78010	None	None	G1	S1	
<i>Stabilized Interior Dunes</i> Stabilized Interior Dunes	CTT23100CA	None	None	G1	S1.1	
<i>Sternula antillarum browni</i> California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2S3	FP
<i>Streptanthus albidus ssp. peramoenus</i> most beautiful jewel-flower	PDBRA2G012	None	None	G2T2	S2.2	1B.2
<i>Streptanthus hispidus</i> Mt. Diablo jewel-flower	PDBRA2G0M0	None	None	G1	S1.2	1B.3
<i>Stuckenia filiformis</i> slender-leaved pondweed	PMPOT03090	None	None	G5	S1S2	2.2
<i>Suaeda californica</i> California seablite	PDCHE0P020	Endangered	None	G1	S1	1B.1
<i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470	None	None	G2	S2	1B.2
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S4	SSC
<i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
<i>Trifolium hydrophilum</i> saline clover	PDFAB400R5	None	None	G2	S2	1B.2
<i>Triquetrella californica</i> coastal triquetrella	NBMUS7S010	None	None	G1	S1	1B.2
<i>Tropidocarpum capparideum</i> caper-fruited tropidocarpum	PDBRA2R010	None	None	G1	S1.1	1B.1



Selected Elements by Scientific Name
California Department of Fish and Game
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
Valley Needlegrass Grassland Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Sink Scrub Valley Sink Scrub	CTT36210CA	None	None	G1	S1.1	
Viburnum ellipticum oval-leaved viburnum	PDCPR07080	None	None	G5	S2.3	2.3
Vulpes macrotis mutica San Joaquin kit fox	AMAJA03041	Endangered	Threatened	G4T2T3	S2S3	
Xanthocephalus xanthocephalus yellow-headed blackbird	ABPBXB3010	None	None	G5	S3S4	SSC

Record Count: 152

CRPR County List 2012

Scientific Name	Common Name	Rare Plant Rank	CESA	FESA	Elevation H	Elevation L	CA Endemic
<i>Amsinckia grandiflora</i>	large-flowered fiddleneck	1B.1	CE	FE	550	275	T
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	1B.2	None	None	500	3	T
<i>Androsace elongata</i> ssp. <i>acuta</i>	California androsace	4.2	None	None	1200	150	F
<i>Anomobryum julaceum</i>	slender silver moss	2.2	None	None	1000	100	F
<i>Arabis blepharophylla</i>	coast rockcress	4.3	None	None	1100	3	T
<i>Arctostaphylos auriculata</i>	Mt. Diablo manzanita	1B.3	None	None	650	135	T
<i>Arctostaphylos manzanita</i> ssp. <i>laevigata</i>	Contra Costa manzanita	1B.2	None	None	1100	500	T
<i>Arctostaphylos pallida</i>	pallid manzanita	1B.1	CE	FT	465	185	T
<i>Astragalus tener</i> var. <i>tener</i>	alkali milk-vetch	1B.2	None	None	60	1	T
<i>Atriplex cordulata</i> var. <i>cordulata</i>	heartscale	1B.2	None	None	560	0	T
<i>Atriplex coronata</i> var. <i>coronata</i>	crownscale	4.2	None	None	590	1	T
<i>Atriplex depressa</i>	brittlescale	1B.2	None	None	320	1	T
<i>Atriplex joaquinana</i>	San Joaquin spearscale	1B.2	None	None	835	1	T
<i>Blepharizonia plumosa</i>	big tarplant	1B.1	None	None	505	30	T
<i>Calandrinia breweri</i>	Brewer's calandrinia	4.2	None	None	1220	10	F
<i>California macrophylla</i>	round-leaved filaree	1B.1	None	None	1200	15	F
<i>Calochortus pulchellus</i>	Mt. Diablo fairy-lantern	1B.2	None	None	840	30	T
<i>Calochortus umbellatus</i>	Oakland star-tulip	4.2	None	None	700	100	T
<i>Calochortus uniflorus</i>	large-flowered mariposa lily	4.2	None	None	1070	10	F
<i>Calystegia purpurata</i> ssp. <i>saxicola</i>	coastal bluff morning-glory	1B.2	None	None	105	10	T
<i>Campanula exigua</i>	chaparral harebell	1B.2	None	None	1250	275	T
<i>Carex comosa</i>	bristly sedge	2.1	None	None	625	0	F
<i>Castilleja ambigua</i> ssp. <i>ambigua</i>	johnny-nip	4.2	None	None	435	0	F
<i>Castilleja rubicundula</i> ssp. <i>rubicundula</i>	pink creamsacs	1B.2	None	None	910	20	T
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Congdon's tarplant	1B.2	None	None	230	0	T
<i>Chloropyron molle</i> ssp. <i>molle</i>	soft bird's-beak	1B.2	CR	FE	3	0	T
<i>Cicuta maculata</i> var. <i>bolanderi</i>	Bolander's water-hemlock	2.1	None	None	200	0	F
<i>Cirsium andrewsii</i>	Franciscan thistle	1B.2	None	None	150	0	T
<i>Collomia diversifolia</i>	serpentine collomia	4.3	None	None	600	300	T
<i>Convolvulus simulans</i>	small-flowered morning-glory	4.2	None	None	700	30	F
<i>Cordylanthus nidularius</i>	Mt. Diablo bird's-beak	1B.1	CR	None	800	600	T
<i>Cryptantha hooveri</i>	Hoover's cryptantha	1A	None	None	150	9	T
<i>Delphinium californicum</i> ssp. <i>interius</i>	Hospital Canyon larkspur	1B.2	None	None	1095	230	T
<i>Delphinium recurvatum</i>	recurved larkspur	1B.2	None	None	790	3	T
<i>Didymodon norrisii</i>	Norris' beard moss	2.2	None	None	1973	600	F
<i>Dirca occidentalis</i>	western leatherwood	1B.2	None	None	425	25	T
<i>Eleocharis parvula</i>	small spikerush	4.3	None	None	3020	1	F
<i>Eriastrum brandegeeeae</i>	Brandegee's eriastrum	1B.2	None	None	1030	305	T
<i>Eriogonum luteolum</i> var. <i>caninum</i>	Tiburon buckwheat	1B.2	None	None	700	0	T
<i>Eriogonum nudum</i> var. <i>psychicola</i>	Antioch Dunes buckwheat	1B.1	None	None	20	0	T
<i>Eriogonum truncatum</i>	Mt. Diablo buckwheat	1B.1	None	None	350	3	T
<i>Eriogonum umbellatum</i> var. <i>bahiiforme</i>	bay buckwheat	4.2	None	None	2200	700	T

CRPR County List 2012

<i>Eriophyllum jepsonii</i>	Jepson's woolly sunflower	4.3	None	None	1025	200 T
<i>Eryngium racemosum</i>	Delta button-celery	1B.1	CE	None	30	3 T
<i>Erysimum capitatum</i> var. <i>angustatum</i>	Contra Costa wallflower	1B.1	CE	FE	20	3 T
<i>Eschscholzia rhombipetala</i>	diamond-petaled California poppy	1B.1	None	None	975	0 T
<i>Fritillaria agrestis</i>	stinkbells	4.2	None	None	1555	10 T
<i>Fritillaria liliacea</i>	fragrant fritillary	1B.2	None	None	410	3 T
<i>Galium andrewsii</i> ssp. <i>gatense</i>	phlox-leaf serpentine bedstraw	4.2	None	None	1450	150 T
<i>Helianthella castanea</i>	Diablo helianthella	1B.2	None	None	1300	60 T
<i>Hesperevax caulescens</i>	hogwallow starfish	4.2	None	None	505	0 T
<i>Hesperolinon breweri</i>	Brewer's western flax	1B.2	None	None	900	30 T
<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	woolly rose-mallow	1B.2	None	None	120	0 T
<i>Hoita strobilina</i>	Loma Prieta hoita	1B.1	None	None	860	30 T
<i>Holocarpa macradenia</i>	Santa Cruz tarplant	1B.1	CE	FT	220	10 T
<i>Iris longipetala</i>	coast iris	4.2	None	None	600	0 T
<i>Juglans hindsii</i>	Northern California black walnut	1B.1	None	None	440	0 T
<i>Lasthenia conjugens</i>	Contra Costa goldfields	1B.1	None	FE	470	0 T
<i>Lasthenia ferrisiae</i>	Ferris' goldfields	4.2	None	None	700	20 T
<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	Delta tule pea	1B.2	None	None	4	0 T
<i>Leptosiphon acicularis</i>	bristly leptosiphon	4.2	None	None	1500	55 T
<i>Leptosiphon ambiguus</i>	serpentine leptosiphon	4.2	None	None	1130	120 T
<i>Lilaeopsis masonii</i>	Mason's lilaeopsis	1B.1	CR	None	10	0 T
<i>Limosella subulata</i>	Delta mudwort	2.1	None	None	3	0 F
<i>Madia radiata</i>	showy golden madia	1B.1	None	None	1215	25 T
<i>Malacothamnus hallii</i>	Hall's bush-mallow	1B.2	None	None	760	10 T
<i>Meconella oregana</i>	Oregon meconella	1B.1	None	None	620	250 F
<i>Micropus amphibolus</i>	Mt. Diablo cottonweed	3.2	None	None	825	45 T
<i>Microseris sylvatica</i>	sylvan microseris	4.2	None	None	1500	45 T
<i>Monardella antonina</i> ssp. <i>antonina</i>	San Antonio Hills monardella	3	None	None	1000	500 T
<i>Monolopia gracilens</i>	woodland woolythreads	1B.2	None	None	1200	100 T
<i>Myosurus minimus</i> ssp. <i>apus</i>	little mouseltail	3.1	None	None	640	20 F
<i>Navarretia cotulifolia</i>	cotula navarretia	4.2	None	None	1830	4 T
<i>Navarretia gowenii</i>	Lime Ridge navarretia	1B.1	None	None	305	180 T
<i>Navarretia nigelliformis</i> ssp. <i>nigelliformis</i>	adobe navarretia	4.2	None	None	1000	100 T
<i>Navarretia nigelliformis</i> ssp. <i>radians</i>	shining navarretia	1B.2	None	None	1000	76 T
<i>Oenothera deltoides</i> ssp. <i>howellii</i>	Antioch Dunes evening-primrose	1B.1	CE	FE	30	0 T
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Gairdner's yampah	4.2	None	None	610	0 T
<i>Phacelia phacelioides</i>	Mt. Diablo phacelia	1B.2	None	None	1370	500 T
<i>Piperia michaelii</i>	Michael's rein orchid	4.2	None	None	915	3 T
<i>Potamogeton zosteriformis</i>	eel-grass pondweed	2.2	None	None	1860	0 F
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	4.2	None	None	470	15 F
<i>Sanicula saxatilis</i>	rock sanicle	1B.2	CR	None	1175	620 T
<i>Senecio aphanactis</i>	chaparral ragwort	2.2	None	None	800	15 F
<i>Streptanthus albidus</i> ssp. <i>peramoenus</i>	most beautiful jewel-flower	1B.2	None	None	1000	94 T
<i>Streptanthus hispidus</i>	Mt. Diablo jewel-flower	1B.3	None	None	1200	365 T
<i>Stuckenia filiformis</i>	slender-leaved pondweed	2.2	None	None	2150	300 F
<i>Suaeda californica</i>	California seablite	1B.1	None	FE	15	0 T
<i>Symphotrichum lentum</i>	Suisun Marsh aster	1B.2	None	None	3	0 T
<i>Trifolium hydrophilum</i>	saline clover	1B.2	None	None	300	0 T
<i>Triquetrella californica</i>	coastal triquetrella	1B.2	None	None	100	10 F
<i>Tropidocarpum capparideum</i>	caper-fruited tropidocarpum	1B.1	None	None	455	1 T
<i>Viburnum ellipticum</i>	oval-leaved viburnum	2.3	None	None	1400	215 F