

Appendix 9
Biological Resources

Appendix 9
California Natural Diversity Database (CNDDDB) Query



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Query Criteria: Quad IS (San Francisco North (3712274))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
adobe sanicle <i>Sanicula maritima</i>	PDAP11Z0D0	None	Rare	G2	S2	1B.1
alkali milk-vetch <i>Astragalus tener var. tener</i>	PDFAB0F8R1	None	None	G2T2	S2	1B.2
American badger <i>Taxidea taxus</i>	AMAJF04010	None	None	G5	S3	SSC
American peregrine falcon <i>Falco peregrinus anatum</i>	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
Angel Island mole <i>Scapanus latimanus insularis</i>	AMABB02032	None	None	G5T1	S1	
bank swallow <i>Riparia riparia</i>	ABPAU08010	None	Threatened	G5	S2	
Bay checkerspot butterfly <i>Euphydryas editha bayensis</i>	IILEPK4055	Threatened	None	G5T1	S1	
beach layia <i>Layia carnosa</i>	PDAST5N010	Endangered	Endangered	G2	S2	1B.1
blue coast gilia <i>Gilia capitata ssp. chamissonis</i>	PDPLM040B3	None	None	G5T2	S2	1B.1
bristly sedge <i>Carex comosa</i>	PMCYP032Y0	None	None	G5	S2	2B.1
bumblebee scarab beetle <i>Lichnanthe ursina</i>	IICOL67020	None	None	G2	S2	
California black rail <i>Laterallus jamaicensis coturniculus</i>	ABNME03041	None	Threatened	G3G4T1	S1	FP
California giant salamander <i>Dicamptodon ensatus</i>	AAAAH01020	None	None	G3	S2S3	SSC
California red-legged frog <i>Rana draytonii</i>	AAABH01022	Threatened	None	G2G3	S2S3	SSC
callippe silverspot butterfly <i>Speyeria callippe callippe</i>	IILEPJ6091	Endangered	None	G5T1	S1	
Choris' popcornflower <i>Plagiobothrys chorisianus var. chorisianus</i>	PDBOR0V061	None	None	G3T2Q	S2	1B.2
coastal triquetrella <i>Triquetrella californica</i>	NBMUS7S010	None	None	G2	S2	1B.2
congested-headed hayfield tarplant <i>Hemizonia congesta ssp. congesta</i>	PDAST4R065	None	None	G5T1T2	S1S2	1B.2
dark-eyed gilia <i>Gilia millefoliata</i>	PDPLM04130	None	None	G2	S2	1B.2
double-crested cormorant <i>Phalacrocorax auritus</i>	ABNFD01020	None	None	G5	S4	WL



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
fragrant fritillary <i>Fritillaria liliacea</i>	PMLIL0V0C0	None	None	G2	S2	1B.2
Franciscan manzanita <i>Arctostaphylos franciscana</i>	PDERI040J3	Endangered	None	G1	S1	1B.1
Franciscan thistle <i>Cirsium andrewsii</i>	PDAST2E050	None	None	G3	S3	1B.2
hairless popcornflower <i>Plagiobothrys glaber</i>	PDBOR0V0B0	None	None	GH	SH	1A
hoary bat <i>Lasiurus cinereus</i>	AMACC05030	None	None	G5	S4	
Kellogg's horkelia <i>Horkelia cuneata var. sericea</i>	PDROS0W043	None	None	G4T1?	S1?	1B.1
longfin smelt <i>Spirinchus thaleichthys</i>	AFCHB03010	Candidate	Threatened	G5	S1	SSC
Marin hesperian <i>Vespericola marinensis</i>	IMGASA4140	None	None	G2	S2	
Marin western flax <i>Hesperolinon congestum</i>	PDLIN01060	Threatened	Threatened	G1	S1	1B.1
marsh microseris <i>Microseris paludosa</i>	PDAST6E0D0	None	None	G2	S2	1B.2
marsh sandwort <i>Arenaria paludicola</i>	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
Mission blue butterfly <i>Plebejus icarioides missionensis</i>	IILEPG801A	Endangered	None	G5T1	S1	
monarch - California overwintering population <i>Danaus plexippus pop. 1</i>	IILEPP2012	None	None	G4T2T3	S2S3	
Mt. Tamalpais thistle <i>Cirsium hydrophilum var. vaseyi</i>	PDAST2E1G2	None	None	G2T1	S1	1B.2
northern meadow sedge <i>Carex praticola</i>	PMCYP03B20	None	None	G5	S2	2B.2
obscure bumble bee <i>Bombus caliginosus</i>	IHYM24380	None	None	G4?	S1S2	
Oregon polemonium <i>Polemonium carneum</i>	PDPLM0E050	None	None	G3G4	S2	2B.2
Point Reyes jumping mouse <i>Zapus trinotatus orarius</i>	AMAFH01031	None	None	G5T1T3Q	S1S3	SSC
Point Reyes salty bird's-beak <i>Chloropyron maritimum ssp. palustre</i>	PDSCR0J0C3	None	None	G4?T2	S2	1B.2
Presidio clarkia <i>Clarkia franciscana</i>	PDONA050H0	Endangered	Endangered	G1	S1	1B.1
Presidio manzanita <i>Arctostaphylos montana ssp. ravenii</i>	PDERI040J2	Endangered	Endangered	G3T1	S1	1B.1



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
rose leptosiphon <i>Leptosiphon rosaceus</i>	PDPLM09180	None	None	G1	S1	1B.1
round-headed Chinese-houses <i>Collinsia corymbosa</i>	PDSCR0H060	None	None	G1	S1	1B.2
San Francisco Bay Area leaf-cutter bee <i>Trachusa gummifera</i>	IIHYM80010	None	None	G1	S1	
San Francisco Bay spineflower <i>Chorizanthe cuspidata</i> var. <i>cuspidata</i>	PDPGN04081	None	None	G2T1	S1	1B.2
San Francisco campion <i>Silene verecunda</i> ssp. <i>verecunda</i>	PDCAR0U213	None	None	G5T2	S2	1B.2
San Francisco collinsia <i>Collinsia multicolor</i>	PDSCR0H0B0	None	None	G2	S2	1B.2
San Francisco gumplant <i>Grindelia hirsutula</i> var. <i>maritima</i>	PDAST470D3	None	None	G5T1Q	S1	3.2
San Francisco lessingia <i>Lessingia germanorum</i>	PDAST5S010	Endangered	Endangered	G1	S1	1B.1
San Francisco owl's-clover <i>Triphysaria floribunda</i>	PDSCR2T010	None	None	G2?	S2?	1B.2
San Francisco popcornflower <i>Plagiobothrys diffusus</i>	PDBOR0V080	None	Endangered	G1Q	S1	1B.1
San Pablo song sparrow <i>Melospiza melodia samuelis</i>	ABPBXA301W	None	None	G5T2?	S2?	SSC
sandy beach tiger beetle <i>Cicindela hirticollis gravida</i>	IICOL02101	None	None	G5T2	S2	
Santa Cruz microseris <i>Stebbinsoseris decipiens</i>	PDAST6E050	None	None	G2	S2	1B.2
southern sea otter <i>Enhydra lutris nereis</i>	AMAJF09012	Threatened	None	G4T2	S2	FP
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	AMACC08010	None	None	G3G4	S2	SSC
water star-grass <i>Heteranthera dubia</i>	PMPON03010	None	None	G5	S2	2B.2
western bumble bee <i>Bombus occidentalis</i>	IIHYM24250	None	None	G2G3	S1	
western pond turtle <i>Emys marmorata</i>	ARAAD02030	None	None	G3G4	S3	SSC
western red bat <i>Lasiurus blossevillii</i>	AMACC05060	None	None	G5	S3	SSC
white-rayed pentachaeta <i>Pentachaeta bellidiflora</i>	PDAST6X030	Endangered	Endangered	G1	S1	1B.1

Record Count: 61

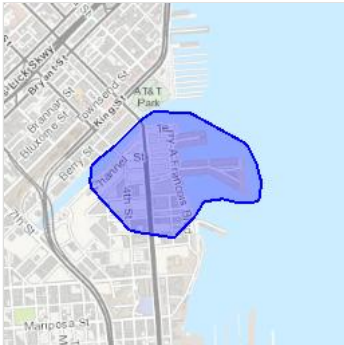
Appendix 9

U.S. Fish and Wildlife Service (USFWS) Species List Database

IPaC resource list

Location

San Francisco County, California



DESCRIPTION

The project will be located at the Seawall Lot and will be constructed as development of businesses.

Local offices

Sacramento Fish And Wildlife Office

☎ (916) 414-6600

📠 (916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

San Francisco Bay-delta Fish And Wildlife

☎ (916) 930-5603

📠 (916) 930-5654

650 Capitol Mall
Suite 8-300
Sacramento, CA 95814

http://kim_squires@fws.gov

Endangered species

This resource list is for informational purposes only and should not be used for planning or analyzing project level impacts.

[Section 7](#) of the Endangered Species Act **requires** Federal agencies to “request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action” for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Review section in IPaC or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by creating a project and making a request from the Regulatory Review section.

Listed species¹ are managed by the [Endangered Species Program](#) of the U.S. Fish and Wildlife Service.

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.

The following species are potentially affected by activities in this location:

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/2891	Threatened

Birds

NAME	STATUS
California Clapper Rail <i>Rallus longirostris obsoletus</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/4240	Endangered
California Least Tern <i>Sterna antillarum browni</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/8104	Endangered
Short-tailed Albatross <i>Phoebastria (=Diomedea) albatrus</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/433	Endangered
Western Snowy Plover <i>Charadrius alexandrinus nivosus</i> There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/8035	Threatened

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/321	Threatened
Steelhead <i>Oncorhynchus (=Salmo) mykiss</i> There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/1007	Threatened
Tidewater Goby <i>Eucyclogobius newberryi</i> There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/57	Endangered

Flowering Plants

NAME	STATUS
Franciscan Manzanita <i>Arctostaphylos franciscana</i> There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/5350	Endangered
Marin Dwarf-flax <i>Hesperolinon congestum</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/5363	Threatened

Marsh Sandwort <i>Arenaria paludicola</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/2229	Endangered
Presidio Clarkia <i>Clarkia franciscana</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/3890	Endangered
Presidio Manzanita <i>Arctostaphylos hookeri</i> var. <i>ravenii</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/7216	Endangered
San Francisco Lessingia <i>Lessingia germanorum</i> (=L.g. var. <i>germanorum</i>) No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/8174	Endangered
Sonoma Sunshine <i>Blennosperma bakeri</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/1260	Endangered
White-rayed Pentachaeta <i>Pentachaeta bellidiflora</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/7782	Endangered

Insects

NAME	STATUS
Bay Checkerspot Butterfly <i>Euphydryas editha bayensis</i> There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/2320	Threatened
Callippe Silverspot Butterfly <i>Speyeria callippe callippe</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/3779	Endangered
Mission Blue Butterfly <i>Icaricia icarioides missionensis</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/6928	Endangered
San Bruno Elfin Butterfly <i>Callophrys mossii bayensis</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/3394	Endangered

Mammals

NAME	STATUS
Salt Marsh Harvest Mouse <i>Reithrodontomys raviventris</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/613	Endangered
Southern Sea Otter <i>Enhydra lutris nereis</i> No critical habitat has been designated for this species. http://ecos.fws.gov/ecp/species/8560	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service³. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Conservation measures for birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Year-round bird occurrence data <http://www.birdscanada.org/birdmon/default/datasummaries.jsp>

The migratory birds species listed below are species of particular conservation concern (e.g. [Birds of Conservation Concern](#)) that may be potentially affected by activities in this location, not a list of every bird species you may find in this location. Although it is important to try to avoid and minimize impacts to all birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the [AKN Histogram Tools](#) and [Other Bird Data Resources](#).

NAME	SEASON(S)
Bald Eagle <i>Haliaeetus leucocephalus</i> http://ecos.fws.gov/ecp/species/1626	Year-round
Bell's Sparrow <i>Amphispiza belli</i> http://ecos.fws.gov/ecp/species/9303	Year-round
Black Oystercatcher <i>Haematopus bachmani</i> http://ecos.fws.gov/ecp/species/9591	Year-round
Black Rail <i>Laterallus jamaicensis</i> http://ecos.fws.gov/ecp/species/7717	Breeding
Black Skimmer <i>Rynchops niger</i> http://ecos.fws.gov/ecp/species/5234	Breeding
Black-vented Shearwater <i>Puffinus opisthomelas</i>	Wintering
Burrowing Owl <i>Athene cucularia</i> http://ecos.fws.gov/ecp/species/9737	Year-round
Costa's Hummingbird <i>Calypte costae</i> http://ecos.fws.gov/ecp/species/9470	Breeding
Fox Sparrow <i>Passerella iliaca</i>	Wintering
Lawrence's Goldfinch <i>Carduelis lawrencei</i> http://ecos.fws.gov/ecp/species/9464	Breeding
Lesser Yellowlegs <i>Tringa flavipes</i> http://ecos.fws.gov/ecp/species/9679	Wintering

Lewis's Woodpecker <i>Melanerpes lewis</i> http://ecos.fws.gov/ecp/species/9408	Wintering
Long-billed Curlew <i>Numenius americanus</i> http://ecos.fws.gov/ecp/species/5511	Wintering
Marbled Godwit <i>Limosa fedoa</i> http://ecos.fws.gov/ecp/species/9481	Wintering
Nuttall's Woodpecker <i>Picoides nuttallii</i> http://ecos.fws.gov/ecp/species/9410	Year-round
Oak Titmouse <i>Baeolophus inornatus</i> http://ecos.fws.gov/ecp/species/9656	Year-round
Olive-sided Flycatcher <i>Contopus cooperi</i> http://ecos.fws.gov/ecp/species/3914	Breeding
Peregrine Falcon <i>Falco peregrinus</i> http://ecos.fws.gov/ecp/species/8831	Year-round
Pink-footed Shearwater <i>Puffinus creatopus</i>	Year-round
Red Knot <i>Calidris canutus ssp. roselaari</i> http://ecos.fws.gov/ecp/species/8880	Wintering
Short-billed Dowitcher <i>Limnodromus griseus</i> http://ecos.fws.gov/ecp/species/9480	Wintering
Short-eared Owl <i>Asio flammeus</i> http://ecos.fws.gov/ecp/species/9295	Wintering
Snowy Plover <i>Charadrius alexandrinus</i>	Breeding
Western Grebe <i>Aechmophorus occidentalis</i> http://ecos.fws.gov/ecp/species/6743	Wintering
Whimbrel <i>Numenius phaeopus</i> http://ecos.fws.gov/ecp/species/9483	Wintering
Yellow Rail <i>Coturnicops noveboracensis</i> http://ecos.fws.gov/ecp/species/9476	Wintering
Yellow Warbler <i>Dendroica petechia ssp. brewsteri</i> http://ecos.fws.gov/ecp/species/3230	Breeding

What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

Landbirds:

Migratory birds that are displayed on the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2008 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

Atlantic Seabirds:

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date.

NOAANCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance and richness of bird species within your project area off the Atlantic Coast, see the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAANCCOS models: the models were developed as part of the NOAANCCOS project: [Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#). The models resulting from this project are being used in a number of decision-support/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the [Northeast Ocean Data Portal](#), which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?

Landbirds:

The [Avian Knowledge Network \(AKN\)](#) provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest, survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the [Migratory Bird Programs AKN Histogram Tools](#) webpage.

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

Atlantic Seabirds:

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAANCCOS [Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project](#) webpage.

Facilities

Wildlife refuges

Any activity proposed on [National Wildlife Refuge](#) lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGES AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location overlaps the following wetlands:

ESTUARINE AND MARINE DEEPWATER

[E1UBL](#)

ESTUARINE AND MARINE WETLAND

[E2USN](#)

A full description for each wetland code can be found at the National Wetlands Inventory website:

<https://ecos.fws.gov/ipac/wetlands/decoder>

Not for consultation

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Appendix 9

California Native Plant Society (CNPS) Online Inventory of Rare
and Endangered Plants for the San Francisco North 7.5-minute
U.S. Geological Survey (USGS) quadrangle

Plant List

6 matches found. [Click on scientific name for details](#)

Search Criteria

Rare Plant Rank is one of [1A, 1B, 2A, 2B], FESA is one of [Endangered, Threatened, Species of Concern], CESA is one of [Endangered, Threatened, Rare], Found in Quad 37122G4

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
Arctostaphylos montana ssp. ravenii	Presidio manzanita	Ericaceae	perennial evergreen shrub	1B.1	S1	G3T1
Arenaria paludicola	marsh sandwort	Caryophyllaceae	perennial stoloniferous herb	1B.1	S1	G1
Clarkia franciscana	Presidio clarkia	Onagraceae	annual herb	1B.1	S1	G1
Hesperolinon congestum	Marin western flax	Linaceae	annual herb	1B.1	S1	G1
Layia carnosa	beach layia	Asteraceae	annual herb	1B.1	S2	G2
Lessingia germanorum	San Francisco lessingia	Asteraceae	annual herb	1B.1	S1	G1

Suggested Citation

CNPS, Rare Plant Program. 2017. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website <http://www.rareplants.cnps.org> [accessed 13 February 2017].

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