

APPENDIX F:
SPECIAL-STATUS SPECIES APPENDIX

APPENDIX F
SPECIAL-STATUS UPLAND SPECIES CONSIDERED IN EVALUATION OF THE PROJECT AREA

Common Name <i>Scientific Name</i>	Listing Status USFWS/ CDFG/CNPS ^a	General Habitat	Potential for Species Occurrence Within Project Area
STATE OR FEDERALLY LISTED SPECIES			
San Bruno elfin butterfly <i>Callophrys mossii bayensis</i>	FE/--	Inhabits rocky outcrops and cliffs on north-facing, often shady slopes in coastal scrub and relatively undisturbed grasslands. Larval host plant is <i>Sedum spathulifolium</i> .	Low. Species occurrences at Milagra Ridge but no suitable habitat in project area.
Bay checkerspot butterfly <i>Euphydras editha bayensis</i>	FT/--	Restricted to native grasslands on outcrops of serpentine, with dwarf plantain and owl's clover as host plants.	Low. Suitable native serpentine grasslands do not occur on project area.
Mission blue butterfly <i>Icaricia icariodes missionensis</i>	FE/--	Coastal scrub and grassland habitat. Requires <i>Lupinus albifrons</i> , <i>L. variicolor</i> , or <i>L. formosus</i> as larval host plant.	Present. Found in Tennessee Valley, Marin Headlands including Fort Baker.
Callippe silverspot butterfly <i>Speyeria callippe callippe</i>	FE/--	Occurs in grasslands with a native component. Host plant is <i>Viola pedunculata</i> .	Absent. Current populations known only south of San Francisco.
California red-legged frog <i>Rana draytonii</i>	FT/CSC	Breeds in stock ponds, pools, and slow-moving streams.	Absent. Although present at various localities within Marin County, including Muir Beach and Rodeo Lagoon, no suitable habitat in project area.
San Francisco garter snake <i>Thamnophis sirtalis tetrataenia</i>	FE/CE	Most often observed in the vicinity of standing water; ponds, lakes, marshes, and sloughs. Temporary ponds and seasonal bodies of water are also used. Banks with emergent and bankside vegetation are preferred and used for cover.	Absent. Historically occurred on San Francisco peninsula but current populations known only south of San Francisco.
American peregrine falcon <i>Falco peregrinus anatum</i>	DL/DL	Woodlands, coastal habitats, riparian areas, coastal and inland waters, humanmade structures that may be used as nest or temporary perch sites.	Moderate. Although the species is present near the Bay Bridge, it is unlikely to forage in the project area.
Western snowy plover <i>Charadrius alexandrius nivosus</i>	FT/CSC	Sandy coastal beaches, salt pans, coastal dredged spoils sites, dry salt ponds, salt pond levees, and gravel bars. Nests in sandy substrate and forages in sandy marine and estuarine bodies.	Present. Overwintering populations on Ocean Beach and smaller population at Wildlife Protection Area at Crissy Field. Periodically sighted at other beaches such as Baker Beach and Rodeo Beach.
Brown pelican <i>Pelecanus occidentalis</i>	DL/DL&FPS	Nests on protected islets near freshwater lakes and marine waters.	Present. Forage and roost within the project area.
California least tern <i>Sterna antillarum browni</i>	FE/FPS	Feeds in relatively shallow, near-shore waters, coastal freshwater ponds, channels, and lakes occupied by small fish. Colonial nesters on sand, gravel, or shell beaches where visibility is good.	Present. Forages within the project area. Nearest extant breeding colony in San Francisco Bay is located at the former Alameda Naval Air Station.
Bank swallow <i>Riparia riparia</i>	--/ST	Requires vertical banks/cliffs with fine textured/sandy soils near streams, rivers, lakes, ocean to dig nesting burrows.	Present. Species nests in the Fort Funston cliffs.

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STATE OR FEDERALLY LISTED SPECIES (cont.)			
San Francisco lessingia <i>Lessingia germanorum</i>	FE/CE/List 1B	Remnant dunes in coastal scrub	Present. Extant at Baker Beach.
Presidio manzanita <i>Arctostaphylos hookeri</i> ssp. <i>ravenii</i>	FE/CE/1B	Chaparral, coastal prairie, coastal scrub.	Present. Extant at Baker Beach.
Marin dwarf-flax (Marin western flax) <i>Hesperolinon congestum</i>	FT/CT	Serpentine chaparral (coastal prairie- grassland) habitat.	Present. Extant at Baker Beach..
California seablite <i>Suaeda californica</i>	FE/ 1B.1	Coastal salt marshes.	Present at Crissy Marsh
Presidio clarkia <i>Clarkia franciscana</i>	FE/CE/List 1B.1	Inhabits coastal scrub, valley and foothill grasslands.	Present. Known from Inspiration Point and along bluffs east and north of Baker Beach.
OTHER SPECIAL-STATUS SPECIES			
ANIMALS			
San Francisco forktail damselfly <i>Ischnura gemina</i>	None	Permanent freshwater marshes	Low. The damselfly is limited to wetland vegetation. Reported from ditch adjacent to Marine Drive.
Tree lupine moth <i>Actinemys marmorata</i>	FSC/--	Coastal sand dunes are typically associated with the moth's larval host plant, yellow bush lupine (<i>Lupinus</i> <i>arboreus</i>).	Moderate. The tree lupine moth is found at several locations south of the Golden Gate Bridge.
Western pond turtle <i>Actinemys marmorata</i>	FSC/CSC	Freshwater ponds and slow streams edged with sandy soils for laying eggs.	Low. Aquatic habitat not available in the project area. Nearest occurrence is Lake Merced.
Great blue heron <i>Ardea herodias</i>	--/* Rookeries only	Nest colonially in groves of trees. Rookery sites located near marshes, tide-flats, irrigated pastures, and margins of rivers and lakes.	Low. Breeding has been observed at Stow Lake in Golden Gate Park, and at Lake Merced. Known to nest at Alcatraz as individuals.
Great horned owl <i>Bubo virginianus</i>	--/3503.5	Often uses abandoned nests of corvids or squirrels; nests in large oaks, conifers, eucalyptus.	Present. Breeds in the historic forest of the Presidio.
Cooper's hawk <i>Accipiter cooperii</i>	--/3503.5	Nests mainly in dense evergreen and deciduous forests or riparian zones.	Known to occur.
Sharp-shinned hawk <i>Accipiter striatus</i>	--/CSC	Nests in forest canopy	Present. Breeds in the historic forest of the Presidio.
Red-shouldered hawk <i>Buteo lineatus</i>	--/3503.5	Usually nests in large trees, often in woodland or riparian deciduous habitats. Forages over open grasslands and woodlands.	Present. Breeds in the historic forest of the Presidio.
Red-tailed hawk <i>Buteo jamaicensis</i>	--/3503.5	Usually nests in large trees, often in woodland or riparian deciduous habitats.	Present. Breeds in the historic forest of the Presidio.
Northern harrier <i>Circus cyaneus</i>	--/CSC	Mostly nests in emergent vegetation, wet meadows or near rivers and lakes, but may nest in grasslands away from water.	Probable, but does not breed in the historic forest of the Presidio.
White-tailed kite <i>Elanus leucurus</i>	--/FPS	Nests in isolated trees in open grasslands, meadows, and marshes.	Known to occur.

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OTHER SPECIAL-STATUS SPECIES (cont.)			
ANIMALS (cont.)			
American kestrel <i>Falco sparverius</i>	--/3503.5	Nests in cavities in large trees near open areas.	Probable. Breeds in the historic forest of the Presidio.
Western screech owl <i>Megascops kennicottii</i>	--/3503.5	Nests in dense evergreen or deciduous forests and riparian woodlands.	Known to occur.
Barn owl <i>Tyto alba</i>	--/3503.5	Nests in old buildings or hollow trees in lowlands including farmlands, marshes, shrub lands, and woodlands.	Known to occur.
Double-crested cormorant <i>Phalacrocorax auritus</i>	--/CSC	Nests colonially on coastal cliffs, offshore islands, and along lake margins.	Present. Breeds on Yerba Buena Island and <u>roosts on Little Alcatraz just offshore</u> Alcatraz and forages throughout the project area.
Allen's hummingbird <i>Selasphorus sasin</i>	FSC/* (AWLY)	Inhabits coastal scrub and a variety of woodlands and riparian habitat, as well as gardens in the urban-wildland interface.	Low. Suitable nesting and foraging habitat is present throughout San Francisco, but not along the northern waterfront at spectator sites or secondary viewing areas.
Black-crowned night-heron <i>Nycticorax nycticorax</i>	*(Nesting colony)	Nests colonially on along margins of water bodies.	Present. Breeds on Alcatraz and forages throughout the project area.
Snowy egret <i>Egretta thula</i>	*(Nesting colony)	Nests colonially on along margins of water bodies.	Present. Breeds on Alcatraz and forages throughout the project area.
Black oystercatcher <i>Haematopus bachmani</i>	*(Nesting colony)	Nests frequently on islands, where a pair builds a nest above the high tide mark and then defends an adjacent feeding area.	Present. Nests near Pier 98, Alcatraz, Marin Headlands, and Baker Beach.
Caspian tern <i>Sterna caspia</i>	*(Nesting colony)	Nests in colonies on sandy estuarine shores, on levees in salt ponds, and on islands in alkali and freshwater lakes	Present. Nests at Pier 64.
Townsend's Pacific big-eared bat <i>Corynorhinus townsendii townsendii</i>	FSC/CSC	Inhabits a variety of habitats, requires caves or human made structures for roosting.	Present. Potential roosting habitat is available in abandoned or underused buildings throughout the project area. Recorded CNDDDB occurrence at Angel Island.
<u>Fringed and Yuma myotis</u> <u><i>Myotis thysanodes</i></u> , <u><i>yumanenesis</i></u>	FSC/--	Inhabits a variety of woodland habitats, roosts in crevices or caves, and forages over water and open habitats.	Low. Potential roosting abandoned or underused buildings in the project area.
Angel Island mole <i>Scapanus latimanus insularis</i>	/CSC	Inhabits northern coastal scrub and chaparral.	Presumed present on Angel Island.
PLANTS			
Dune gilia <i>Gilia capitata</i> ssp. <i>chamissonis</i>	//List 1B.1	Restricted to coastal dunes and sandy openings in coastal scrub from San Francisco to Bodega Bay.	Present. Known from Yerba Buena Island and introduced at Crissy Field, Baker Beach, and Lobos Creek Valley.
Presidio manzanita <i>Arctostaphylos montana</i> ssp <i>ravenii</i>	//List 1B.1	Inhabits coastal scrub, occasionally serpentine.	Present. Introduced west of Lincoln Boulevard, near Baker Beach.
Franciscan manzanita <i>Arctostaphylos franciscana</i>	//List 1B.1	Inhabits coastal scrub, occasionally serpentine.	Present. Recently re-discovered near the project area.

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OTHER SPECIAL-STATUS SPECIES (cont.)			
PLANTS (cont.)			
San Francisco Bay spineflower <i>Chorizanthe cuspidata</i> var. <i>cuspidata</i>	//List 1B.2	Inhabits coastal scrub, coastal dunes.	Probable. California Natural Diversity Database (CNDDB) records in project area.
Franciscan thistle <i>Cirsium andrewsii</i>	//List 1B.2	Inhabits coastal scrub, coastal bluff scrub.	Present. Occurs in Marin Headlands. 2008 CNDDB record from Fort Pont vicinity.
Blue coast gilia <i>Gilia capitata</i> ssp. <i>chamissoni</i>	//List 1B.1	Inhabits coastal scrub, coastal dunes.	Probable. Multiple current CNDDB records in project area.
Point Reyes bird's beak <i>Cordylanthus maritimus</i> ssp. <i>palustris</i>	//List 1B.2	Inhabits coastal salt marsh, wetland-riparian.	Present. Reintroduced into Crissy Field area.
San Francisco gumplant <i>Grindelia hirsutula</i> var. <i>maritime</i>	//List 1B.2	Inhabits coastal scrub, valley and foothill grasslands.	Present. Known from Baker Beach.
San Francisco champion <i>Silene verecunda</i> ssp. <i>verecunda</i>	//List 1B.2	Inhabits coastal scrub, valley and foothill grasslands.	Present. Known from Crissy Field area.
San Francisco owl's clover <i>Triphysaria floribunda</i>	//List 1B.2	Inhabits coastal scrub, valley and foothill grasslands.	Present. Known from Doyle Drive area.
Rose rock cress <i>Arabis blepharophylla</i>	//List 4.3	Inhabits rocky, broadleafed upland forest, coastal bluff scrub, coastal prairie, and coastal scrub habitats.	Known to occur.
Round-headed Chinese houses <i>Collinsia corymbosa</i>	//List 1B.2	Inhabits coastal dunes.	Known to occur.
San Francisco wallflower <i>Erysimum franciscanum</i>	//List 4.2	Inhabits serpentinite or granitic substrates, and sometimes roadsides, in chaparral, coastal dunes, coastal scrub and valley and foothill grasslands.	Known to occur.

^a STATUS CODES

Federal (United States Fish and Wildlife Service [USFWS]):

DL = De-listed

FE = Listed as Endangered (in danger of extinction) by the federal government.

FT = Listed as Threatened (likely to become Endangered within the foreseeable future) by the federal government.

FP = Proposed for Listing as Endangered or Threatened.

FC = Candidate to become a *proposed* species.

FSC = Former Federal Species of Concern. The USFWS no longer lists Species of Concern but recommends that species considered to be at potential risk by a number of organizations and agencies be addressed during project environmental review.

State (California Department of Fish and Game [CDFG]):

CE = Listed as Endangered by the State of California.

CT = Listed as Threatened by the State of California.

CR = Listed as Rare by the State of California (plants only).

CSC = California Species of Special Concern.

FPS = California Fully Protected Species.

3503.5 = Protection for nesting species of Falconiformes (hawks) and Strigiformes (owls).

*Special animal—listed on CDFG's Special Animals List.

California Native Plant Society (CNPS):

List 1A = Plants presumed extinct in California.

List 1B = Plants rare, threatened, or endangered in California and elsewhere.

List 2 = Plants rare, threatened, or endangered in California but more common elsewhere.

List 3 = Plants for which we need more information – Review list

List 4 = Plants of limited distribution – Watch list

An extension reflecting the level of threat to each species is appended to each rarity category as follows:

.1 – Seriously endangered in California.

.2 – Fairly endangered in California.

.3 – Not very endangered in California.

Audubon Watch List (AWL):

AWLR = Red List; species that are declining rapidly, have very small populations or limited ranges, and face major conservation threats. These typically are species of global conservation concern.

AWLY = Yellow List; species that are also declining but at a slower rate than those in the red category. These typically are species of national conservation concern.

SOURCE: CDFG, 2011; CNDDDB, 2011; CNPS, 2011; USFWS, 2011.

APPENDIX F
SPECIAL-STATUS FISH AND MARINE MAMMAL SPECIES THAT MAY OCCUR WITHIN THE BAY WATERS OF THE PROPOSED PROJECT

Common Name Scientific Name	Listing Status		General Habitat	Potential for Species Occurrence Within Project Site ²	Time Period Present in Project Waters
	Federal FESA/ MMPA	State CFESA			
Longfin smelt <i>Spirinchus thaleichthys</i>	FC/-	CT	Throughout the nearshore coastal waters and open waters of San Francisco Bay-Delta including the river channels and sloughs of the Delta	C	Year round
Pacific harbor seal <i>Phoca vitulina</i>	-/FP	-	Coastal waters, and throughout Bay-Delta	C	Year round
Northern Elephant Seal <i>Mirounga angustirostris</i>	<u>-/FP</u>	-	Northern elephant seals are the largest phocid, or "true" seal, in the Northern Hemisphere. They are found in the eastern and central North Pacific Ocean. They range as far north as Alaska and as far south as Mexico, with established Central California breeding colonies on the Farallon Islands, at Año Nuevo State Park, and near San Simeon, California. In recent years, young -of-the-year individuals have been observed hauling out on the sandy beach at Crissy field.	P	Primarily April to August with occasional occurrences in October and November
California sea lion <i>Zalophus californianus</i>	-/FP	-	Coastal waters, and throughout Bay-Delta	C	Year round
Harbor porpoise <i>Phocoena phocoena</i>	-/FP	-	An inshore species inhabiting shallow, coastal waters and occasional large rivers, including San Francisco Bay-Delta.	C	Year round
Bottlenose Dolphin <i>Tursiops truncatus</i>	-/FP	-	Found along the California coastline, bottlenose dolphins segregate into coastal or oceanic ecotypes with the coastal ecotype inhabiting waters within 1-kilometer of shore normally between Baja, California and Point Conception. During El Niño events and in recent years, bottlenose dolphins have been observed as far as San Francisco Bay with individuals making occasional forays to the Golden Gate.	C	Potentially Year-round, especially May to October
Gray whale <i>Eschrichtius robustus</i>	FDL/FP	-	Predominantly coastal waters although occasional individuals enter the Bay-Delta and have been observed swimming up the Sacramento River and into south Bay.	P	December to April, during migration from Alaska to Baja California, occasionally enter Bay-Delta, transient
Humpback whale	FE/FD	-	Predominantly coastal waters although occasional	P	April to December, during

Common Name Scientific Name	Listing Status		General Habitat	Potential for Species Occurrence Within Project Site ²	Time Period Present in Project Waters
	Federal FESA/ MMPA	State CFESA			
<i>Megoptera noveangliae</i>			individuals enter the Bay-Delta		migration, occasionally enter Bay-Delta, transient

SOURCE CODES:

Federal (U.S. Fish and Wildlife Service [USFWS]):

FDL = Delisted

FE = Listed as Endangered (in danger of extinction) by the federal government.

FT = Listed as Threatened (likely to become Endangered within the foreseeable future) by the federal government.

FP = Proposed for Listing as Endangered or Threatened.

FC = Candidate to become a proposed species.

FSC = Former Federal Species of Concern. The USFWS no longer lists Species of Concern but recommends that species considered to be at potential risk by a number of organizations and agencies be addressed during project environmental review. *NMFS still lists Species of Concern.

Federal (National Oceanographic and Atmospheric Administration (NOAA) MMPS listings

FD = Depleted Population

FP = Federally Protected

State (California Department of Fish and Game [CDFG]):

CE = Listed as Endangered by the State of California.

CT = Listed as Threatened by the State of California.

CR = Listed as Rare by the State of California (plants only).

CSC = California Species of Special Concern.

Likelihood of occurrence in the waters of the project site

C = Confirmed

P = Potentially may occur

NP = Not present

SOURCE: National Marine Fisheries Service (now known as NOAA Fisheries) Southwest Region (NMFS SWR). 2001. Fisheries Management Plan Species Distributions in San Francisco, San Pablo and Suisun Bays. Accessed April 10, 2011. <http://swr.nmfs.noaa.gov/hcd/loclist.htm>

