

ATTACHMENT

5

SPECIAL-STATUS SPECIES
THAT MAY OCCUR
IN THE PROJECT AREA

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For the purpose of this EA, special-status species include:

1. Species listed or proposed for listing as threatened or endangered under the federal Endangered Species Act (50 CFR 17.12 [listed plants], 17.11 [listed animals], and various notices in the Federal Register [FR] [proposed species]);
2. Species that are candidates for possible future listing as threatened or endangered under the federal Endangered Species Act (61 FR 40, February 28, 1996);
3. Species listed or proposed for listing by the State of California as threatened or endangered under the California Endangered Species Act (14 Cal. Code Regs. 670.5);
4. Species formerly designated by the USFWS as species of concern or species designated by the CDFW as species of special concern;¹
5. Species designated as “special animals” by the state;²
6. Species designated as “fully protected” by the state (there are about 35, most of which are also listed as either endangered or threatened);³
7. Raptors (birds of prey), which are specifically protected by California Fish and Game Code Section 3503.5, thus prohibiting the take, possession, or killing of raptors and owls, their nests, and their eggs;⁴

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¹ A California species of special concern is one that: has been extirpated from the state; meets the state definition of threatened or endangered but has not been formally listed; is undergoing or has experienced serious population declines or range restrictions that put it at risk of becoming threatened or endangered; and/or has naturally small populations susceptible to high risk from any factor that could lead to declines that would qualify it for threatened or endangered status.

² Species listed on the current CDFW “special animals” list (March 2015), which includes 900 species. This list includes species that CDFW considers “those of greatest conservation need.” (CDFW 2015a)

³ The “fully protected” classification was California’s initial effort in the 1960s to identify and provide additional protection to those animals that were rare or faced possible extinction. The designation can be found in the Fish and Game Code.

⁴ The inclusion of birds protected by Fish and Game Code Section 3503.5 is in recognition of the fact that these birds are substantially less common in California than most other birds, having lost much of their habitat to development, and that the populations of these species are therefore substantially more vulnerable to further loss of habitat and to interference with nesting and breeding than most other birds. It is noted that a number of raptors and owls are already specifically listed as threatened or endangered by State and federal wildlife authorities.

8. Plants listed as rare or endangered under the California Native Plant Protection Act (California Fish and Game Code, Section 1900 et seq.);
9. Plants considered by the CNPS to be “rare, threatened or endangered in California” under the California Rare Plant Ranking system (CNPR) which include Rank 1A, 1B, 2A, and 2B as well as Rank 3 and 4⁵ plant species.

Lists of special-status plant and animal species that have the potential to occur within the project area for biological resources were compiled based on data contained in the CNDDDB (2015), the USFWS My Project IPaC Trust Resource Report of Federal Endangered and Threatened Species that Occur in or may be Affected by the proposed project (USFWS 2015), and the CNPS Inventory of Rare and Endangered Plants for the North San Francisco and South San Francisco U.S. Geological Survey 7.5 minute topographical quadrangles (CNPS 2015a). Tables 5-1 and 5-2 present the special-status species, their status, their habitat requirements, and plant blooming periods, and considers the potential for each species to occur within the project area and the project site.

Based on review of the biological literature of the region, information presented in previous environmental documentation, and an evaluation of the habitat conditions of the project area, a species was designated as “absent” if: 1) the species’ specific habitat requirements are not present, or 2) the species is presumed, based on the best scientific information available, to be extirpated from the project area or region. A species was designated as having a “low potential” for occurrence if: 1) its known current distribution or range is outside of the project area, or 2) only limited or marginally suitable habitat is present within the project area. A species was designated as having a “moderate potential” for occurrence if: 1) there is low to moderate quality habitat present within the project area or immediately adjacent areas, or 2) the project area is within the known range of the species, even though the species was not observed during reconnaissance surveys. A species was designated as having a “high potential” for occurrence if: 1) moderate to high quality habitat is present within the project area, and 2) the project area is within the known range of the species.

Special-status fish, marine mammals, and crustaceans were not included in Table 5-2 as the project area does not contain their respective habitats.

⁵ Rank 3 plants may be analyzed under if sufficient information is available to assess potential impacts to such plants. Factors such as regional rarity vs. statewide rarity should be considered in determining whether cumulative impacts to a Rank 4 plant are significant even if individual project impacts are not. CRPR Rank 3 and 4 may be considered regionally significant if, e.g., the occurrence is located at the periphery of the species’ range, or exhibits unusual morphology, or occurs in an unusual habitat/substrate. For these reasons, CRPR Rank 3 and 4 plants should be included in the special-status species analysis. Rank 3 and 4 plants are also included in the CNDDDB Special Vascular Plants, Bryophytes, and Lichens List. The current online published list is available at: <http://www.dfg.ca.gov/biogeodata> (CDFW 2015b).

5-1: SPECIAL-STATUS PLANT SPECIES THAT MAY OCCUR IN THE PROJECT AREA

| Common Name Scientific Name | Listing Status USFWS/ CDFW/CRPR | Habitat Requirements / Blooming Period | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|--|------------------------------------|---|--|---|
| PLANT SPECIES LISTED OR PROPOSED FOR LISTING | | | | |
| Franciscan Manzanita <i>Arctostaphylos franciscana</i> | FE/--/1B.1 | Serpentine outcrops in chaparral and serpentinite coastal scrub. February-April | Absent. Former San Francisco area endemic, This species was believed to be extinct in the wild (although still extant through cultivation), but was rediscovered in Presidio In late 2009. No suitable habitat within the project area. | Absent. No suitable habitat present within the project site. |
| Presidio Manzanita <i>Arctostaphylos hookeri</i> <i>ssp. ravenii</i> | FE/CE/1B.1 | Chaparral, coastal prairie and coastal scrub; rocky serpentinite slopes. February-March | Absent. Former San Francisco area endemic; limited in wild to one plant and clones on serpentinite bluff above Baker's beach. | Absent. No suitable habitat present within the project site. |
| Marsh sandwort <i>Arenaria paludicola</i> | FE/CE/1B.1 | Marshes and swamps. Grows up through dense mats of typha, juncus and schoenoplectus. May-August | Absent. Presumed extirpated from the Presidio and San Francisco County. | Absent. No suitable habitat present within the project site. |
| Presidio clarkia <i>Clarkia franciscana</i> | FE/CE/1B.1 | Serpentine outcrops in coastal scrub or valley and foothill grassland. May-July | Absent. Occurrences and habitat occur in the greater Presidio but not within the project area. | Absent. No suitable habitat present within the project site. |
| Marin western flax <i>Hesperolinon congestum</i> | FT/CT/1B.1 | Chaparral and valley/foothill grassland; serpentinite soils. April-July | Low. Known to occur in dry, serpentinite scrub and grassland slopes in the Presidio. No suitable habitat within the project area. | Absent. No suitable habitat present within the project site. |

| Common Name Scientific Name | Listing Status USFWS/ CDFW/CRPR | Habitat Requirements / Blooming Period | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|--|------------------------------------|---|---|---|
| Beach layia <i>Layia carnosa</i> | FE/CE/1B.1 | Coastal dunes. May-July | Absent. Recorded generally from sand dunes in San Francisco in 1904; may be present in the seed bank. Possibly extirpated from San Francisco County. | Absent. No suitable habitat present within the project site. |
| San Francisco lessingia <i>Lessingia germanorum</i> | FE/CE/1B.1 | Open sandy soils of remnant dunes in coastal scrub. June-November | Present. Known to occur on open sandy soils and is only known from San Francisco and San Mateo counties. Occurs at Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| White-rayed pentachaeta <i>Pentachaeta bellidiflora</i> | FE/CE/1B.1 | Open dry rocky slopes and grassland, often on soils derived from serpentinite. March-May | Absent. Occurrences and habitat occur in the greater Presidio but not within the project area. | Absent. No suitable habitat present within the project site. |
| 5-4 San Francisco popcorn flower <i>Plagiobothrys diffusus</i> | --/CE/1B.1 | Coastal prairie; grassland with marine influence. April-June | Historically documented in the Presidio but presumed extirpated from San Francisco County. | Absent. No suitable habitat present within the project site. |
| Adobe sanicle <i>Sanicula maritima</i> | --/CR/1B.1 | Occurs in meadows and seeps. Generally associated with clayey or ultramafic soils. April-May | Absent. No suitable habitat present; presumed extirpated from the area. | Absent. No suitable habitat present within the project site. |
| CNPS CALIFORNIA RARE PLANT RANK SPECIES | | | | |
| Alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i> | --/--/1B.2 | Low ground, alkali flats, and flooded lands. March-June | Absent. Presumed extirpated in San Francisco; no suitable habitat within the Presidio; | Absent. No suitable habitat present within the project site. |
| Salt marsh owl's clover <i>Castilleja ambigua</i> ssp. <i>ambigua</i> | --/--/4.2/LS | Salt marshes. May-August | Present. Occurs at Crissy Marsh. | Absent. No suitable habitat present within the project site. |

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|--|------------------------------------|--|--|---|
| Point Reyes bird's-beak <i>Chloropyron maritimum</i> <i>ssp. palustre</i> | --/-- 1B.2 | Upper zones of coastal salt marsh. May-September | Present. Reintroduced at Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| San Francisco spineflower <i>Chorizanthe cuspidata</i> <i>var. cuspidata</i> | --/--/1B.2 | Sandy terraces and slopes of coastal bluff scrub, coastal dunes, coastal prairie and coastal scrub. April-August | Present. Coastal scrub and dune habitat is found in the project area at Crissy Marsh. All Presidio records are from the southern portion of the park. Reintroduced at Crissy Field. | Absent. No suitable habitat present within the project site. |
| Franciscan thistle <i>Cirsium andrewsii</i> | --/--/1B.2 | Coastal bluff scrub, serpentine habitats in moist sites. June-July | Low. Documented in the Presidio outside of the project area. | Absent. No suitable habitat present within the project site. |
| Round-headed Chinese-houses <i>Collinsia corymbosa</i> | --/--/1B.2 | Coastal dunes and coastal prairie. April-June | Low. Documented in the Presidio but not within the project area. Could occur within suitable habitat at Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| San Francisco collinsia <i>Collinsia multicolor</i> | --/--/1B.2 | Closed-cone coniferous forests, coastal scrub, sometimes on serpentinite derived soils. March-May | Absent. Documented in San Francisco outside of the Presidio. | Absent. No suitable habitat present within the project site. |
| San Francisco wallflower <i>Erysimum franciscanum</i> | --/--/4.2/LS | Northern foredune, northern coastal scrub, northern coastal bluff scrub, central dune scrub. March-June | Present. Observed at Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| Fragrant fritillary <i>Fritillaria liliacea</i> | --/--/1B.2 | Coastal bluff scrub, coastal scrub, valley and foothill grassland; clayey soils, often serpentinite. February-April | Absent. Historically present in San Francisco though not documented in the project area. | Absent. No suitable habitat present within the project site. |

| Common Name Scientific Name | Listing Status USFWS/ CDFW/CRPR | Habitat Requirements / Blooming Period | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|---|------------------------------------|---|--|---|
| blue coast gilia <i>Gilia capitata</i> ssp. <i>chamissonis</i> | --/-- /1B.1 | Coastal sand dunes and openings of coastal dune scrub. May-July | Present. Occurs at Crissy Marsh in dune habitat at Crissy Field. | Absent. No suitable habitat present within the project site. |
| San Francisco gumplant <i>Grindelia hirsutula</i> var. <i>maritima</i> | --/--/3.2 | Coastal bluff scrub, coastal scrub, valley and foothill grassland; slopes with sandy or serpentine soils. August-September | Moderate. Suitable habitat present at Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| Kellogg's horkelia <i>Horkelia cuneata</i> ssp. <i>sericea</i> | --/--/1B.1 | In openings of closed-coned coniferous forest, coastal scrub, maritime chaparral; sandy or gravelly soils. April-September | Absent. Documented in the Presidio but not within the project area. | Absent. No suitable habitat present within the project site. |
| 5-6 Rose leptosiphon <i>Leptosiphon rosaceus</i> | --/--/1B.1 | Coastal bluff scrub. April-June | Absent. Historically documented from the area but currently thought to be extirpated from the San Francisco North quadrangle. | Absent. No suitable habitat present within the project site. |
| Marsh microseris <i>Microseris paludosa</i> | --/--/1B.2 | Wet areas in a variety of habitats, including coastal scrub and valley and foothill grassland. April-June | Absent. Limited suitable habitat present in project area. Thought to be extirpated from the San Francisco North quadrangle. | Absent. No suitable habitat present within the project site. |
| Northern curly-leaved monardella <i>Monardella sinuata</i> ssp. <i>nigrescens</i> | --/--/1B.2 | Dunes, sandy soils in sagebrush scrub; Contra Costa and San Francisco Counties. May-September | Low. Limited suitable habitat present in project area. | Absent. No suitable habitat present within the project site. |
| Choris's popcorn-flower <i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i> | --/--/1B.2 | Chaparral, coastal prairie, coastal scrub, on mesic sites. March-June | Absent. Occurred historically at the Presidio but thought to be extirpated. | Absent. No suitable habitat present within the project site. |

| Common Name Scientific Name | Listing Status USFWS/ CDFW/CRPR | Habitat Requirements / Blooming Period | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|---|------------------------------------|---|---|---|
| San Francisco campion <i>Silene verecunda</i> ssp. <i>verecunda</i> | --/--/1B.2 | Coastal habitats (scrub, prairie, bluff scrub), grassland and chaparral; sandy to mudstone or shale soils. March-August | High. Occurs in coastal dune scrub and documented at Crissy Field. Suitable habitat is present in the project area. | Absent. No suitable habitat present within the project site. |
| California seablite <i>Suaeda californica</i> | --/--/1B.1 | Margins of coastal saltmarshes. July- October | Present. Reintroduced to Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| San Francisco owl's clover <i>Triphysaria floribunda</i> | --/--/1B.2 | Coastal prairie and scrub, valley and foothill grassland; often on serpentine soils. April-June | Low. Documented in Presidio but not within the project area. Could occur in coastal scrub habitat of the project area. | Absent. No suitable habitat present within the project site. |
| LOCALLY SIGNIFICANT SPECIES | | | | |
| Nuttall's milk-vetch <i>Astragalus nuttallii</i> var. <i>virgatus</i> | --/--/LS | Open bluffs, dunes, and sandy areas. January-November | Moderate. Historically documented in the Presidio. Reintroduced at Crissy Field. Could occur in suitable habitat within the project area. | Absent. No suitable habitat present within the project site. |
| California saltbush <i>Atriplex californica</i> | /--/LS | Salt marsh April-November | Present. Reintroduced at Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| California goosefoot <i>Chenopodium</i> <i>californicum</i> | --/--/LS | Generally open sites; sandy to clay soils. March-June | Present. Reintroduced at Crissy Marsh. | Absent. No suitable habitat present within the project site. |
| California croton <i>Croton californicus</i> | --/--/LS | Sandy soils, dunes and washes. June-September | Present. Reintroduced in dune habitat at Crissy Field. Could occur in suitable habitat within the project area. | Absent. No suitable habitat present within the project site. |

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| Common Name Scientific Name | Listing Status USFWS/ CDFW/CRPR | Habitat Requirements / Blooming Period | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|--|------------------------------------|---|--|---|
| Dune tansy <i>Tanacetum camphoratum</i> | --/--/LS | Coastal dunes. June-September | Present. Reintroduced to Crissy Marsh | Absent. No suitable habitat present within the project site. |

Status Codes:

**Federal Categories
(U.S. Fish and Wildlife Service)**

FE = Listed as "endangered" under the federal Endangered Species Act
 FT = Listed as "threatened" under the federal Endangered Species Act
 FPD = Proposed delisted
 FD = Delisted
 FC = Federal Candidate
 -- No listing status

**State Categories
(California Department of
Fish and Game)**

CE = Listed as "Endangered" under the California Endangered Species Act
 CT = Listed as "Threatened" under the California Endangered Species Act
 CR = Listed as "Rare" by the State of California
 SSC = CDFW designated "Species of Special Concern"
 CFP = CDFW designated "Fully Protected"
 SC = CDFW designated "candidate threatened"
 WL = CDFW designated "watch list"

California Rare Plant Rank (CRPR)

Rank1A = Plants presumed extirpated in California and either rare or extinct elsewhere.
 Rank 1B = Plants rare, threatened, or endangered in California and elsewhere
 Rank 2A = Plants presumed extirpated in California, but more common elsewhere.
 Rank 2B = Plants rare, threatened, or endangered in California but more common elsewhere.
 Rank 3 = Plants about which more information is needed
 Rank 4 = Plants of limited distribution
 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.
 LS = Locally Significant Plant Species for San Francisco County as designated by the CNPS Yerba Buena Chapter

TABLE 5-2: SPECIAL-STATUS ANIMAL SPECIES THAT MAY OCCUR IN THE PROJECT AREA

| Common Name <i>Scientific Name</i> | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|--|------------------------------|--|---|--|
| FEDERAL AND STATE LISTED ANIMAL SPECIES | | | | |
| Invertebrates | | | | |
| Bay checkerspot butterfly <i>Euphydryas editha bayensis</i> | FT/-- | Native grasslands on serpentine soils in San Francisco Bay area. Host plants: <i>Plantago erecta</i> (primary); <i>Castilleja densiflorus</i> and <i>C. exserta</i> Period of identification: March - May | Absent. Only one record in San Francisco area- a colony at Twin Peaks which disappeared in the 1970's. | Absent. No suitable habitat. Host plants absent in project site. |
| Mission blue butterfly <i>Plebejus icarioides missionensis</i> | FE/-- | Grasslands and coastal scrub with larval food plants (<i>Lupinus albifrons</i> , <i>L. variicolor</i> and <i>L. formosus</i>) Period of identification: March-June (adults) | Low potential. Primarily known from San Mateo County, but occurs at Twin Peaks in San Francisco, and at the north end of Golden Gate Bridge in Marin County. | Absent. No suitable habitat occurs in the project site. |
| San Bruno elfin butterfly <i>Callophrys mossii bayensis</i> | FE/-- | Coastal scrub and bunchgrass grassland habitats, with larval foodplant, <i>Sedum spathulifolium</i> ; adults nectar on <i>Lomatium utriculatum</i> , <i>Achillea millefolium</i> , <i>Arabis blepharophylla</i> , <i>Erysimum franciscanum</i> , <i>Ranunculus californicus</i> , and <i>Fragaria californica</i> Period of Identification: March-April | Absent. All known populations from San Mateo County. No nearby sightings. | Absent. All known populations from San Mateo County. No nearby sightings. |
| Reptiles | | | | |
| San Francisco garter snake <i>Thamnophis sirtalis tetrataenia</i> | FE/CE, CFP | Densely vegetated ponds near open hillsides with abundant small mammal burrows. | Absent. No suitable habitat within the project area. | Absent. No suitable habitat within the project site. |

| Common Name <i>Scientific Name</i> | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|--|------------------------------|--|--|---|
| Amphibians | | | | |
| California red-legged frog <i>Rana draytonii</i> | FT/SSC | Breed in stock ponds, pools, and slow-moving streams | Absent. No suitable habitat within the project area. | Absent. No suitable habitat within the project site. |
| Birds | | | | |
| Western snowy plover <i>Charadrius alexandrinus nivosus</i> | FT/SSC | Sandy beaches on marine and estuarine shores - requires sandy, gravelly, or friable soils for nesting Period of identification: Year-round | No nesting potential. Uncommon winter visitor to Crissy Marsh and beach. | No nesting potential. No suitable habitat within the project site. |
| Short-tailed albatross <i>Phoebastria albatrus</i> | FE/SSC | A pelagic species that spends most of its time at sea and returns to land only for breeding purposes. | No nesting potential. Breeds only at one or two sites off the coast of Japan, occasional visitor to California coast. | No nesting potential. No suitable habitat within the project site. |
| 5-10 Willow flycatcher <i>Empidonax traillii</i> (nesting) | --/CE | Large willow riparian forest along rivers and streams Period of identification: Spring and fall | Very Low nesting potential. Uncommon spring and fall migrant at Lobos Creek and Mountain Lake within the Presidio. Willow riparian not extensive enough in project area therefore no suitable habitat. Not known to breed in San Francisco. | No nesting potential. No suitable habitat within the project site. |
| American peregrine falcon <i>Falco peregrinus anatum</i> | FD/CFP | Nests in cliffs and outcrops usually adjacent to lakes Period of identification: Year-round | No nesting potential. Uncommon nonbreeding resident in the project area. | No nesting potential. Uncommon nonbreeding resident. |
| Bald eagle <i>Haliaeetus leucocephalus</i> (nesting and wintering) | FD/CE, CFP | Nests and forages on inland lakes, reservoirs, and rivers Period of identification: Fall | No nesting potential. Rare fall migrant potentially in project area. | No nesting potential. No suitable habitat within the project site. |

| Common Name Scientific Name | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|--|------------------------------|--|--|---|
| California black rail <i>Laterallus jamaicensis coturniculus</i> | --/CT, CFP | Nests and forages in tidal emergent wetland with pickleweed Period of identification: Year-round | No nesting potential. No suitable habitat present. | No nesting potential. No suitable habitat present. |
| Brown pelican <i>Pelecanus occidentalis californicus</i> | FD/CD, CFP | Forages in open water – roosting in flatlands such as berms and islands Period of identification: Winter | No nesting potential. Regular visitor in shore areas of Presidio. Roosts, bathes and forages at Crissy Marsh. | No nesting potential. Do not breed in San Francisco Bay. |
| Ridgway's rail <i>Rallus obsoletus obsoletus</i> | FE/CE, CFP | Nests and forages in dense emergent wetland with pickleweed, cordgrass, and bulrush Period of identification: Year-round | Absent. No suitable habitat present. | Absent. No suitable habitat present in the project site. |
| Bank swallow <i>Riparia riparia</i> | --/CT | A colonial nester. Nests in vertical banks of dirt or sand near water. | No nesting potential. No suitable nesting habitat present. In San Francisco known only to nest at Fort Funston. | Absent. No suitable habitat occurs in the project site. |
| California least tern <i>Sterna antillarum browni</i> (nesting colony) | FE/CE, CFP | Nests along the coast from San Francisco Bay south to northern Baja California - colonial breeder on bare or sparsely vegetated flat substrates including sand beaches, alkali flats, land fills, or paved areas Period of identification: Fall | No nesting potential. Rare non-breeding fall transient to Crissy Marsh. | Absent. No suitable habitat occurs in the project site. |
| Mammals | | | | |
| Salt marsh harvest mouse <i>Reithrodontomys raviventris</i> | FE/CE, CFP | Saline emergent marsh with dense pickleweed Period of identification: Year-round | Absent. No suitable habitat present in project area. | Absent. No suitable habitat present in project site. |

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| Common Name Scientific Name | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|--------------------------------|------------------------------|--|--|--|
|--------------------------------|------------------------------|--|--|--|

OTHER SPECIAL STATUS SPECIES

Reptiles

| | | | | |
|---|--------|--|---|--|
| Silvery legless lizard <i>Anniella pulchra pulchra</i> | --/SSC | Areas with sandy or loose loamy soils under open vegetation near beaches, chaparral, or pine-oak woodland Period of identification: April-September | Low potential. Considered extirpated from Presidio. Project area does not provide suitable habitat for this species. | Absent. No suitable habitat occurs in the project site. |
| Western pond turtle <i>Emmys marmorata</i> | --/SSC | Lakes, ponds, reservoirs, and slow-moving streams and rivers, primarily in foothills and lowlands Period of identification: Year-round | Absent. No suitable habitat present in project area. | Absent. No suitable habitat present in project site. |

Birds

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| | | | | |
|--|------------|--|--|---|
| Tricolored blackbird <i>Agelaius tricolor</i> (nesting colony) | --/CE, SSC | Nests in freshwater marshes with dense stands of cattails or bulrushes, occasionally in willows, thistles, mustard, blackberry brambles, and dense shrubs and grains Period of identification: Year-round | Low potential. Suitable habitat considered too fragmented within the Presidio. No suitable habitat within the project area. | Absent. No suitable habitat present in project site. |
| Vaux's swift <i>Chaetura vauxi</i> | --/SSC | Nests in hollow, burned-out tree trunks in large conifers Period of identification: Fall/Spring | No nesting potential. Rare to uncommon seasonal migrant that does not breed locally. | No nesting potential. Rare to uncommon seasonal migrant that does not breed locally. |
| olive-sided flycatcher <i>Contopus cooperi</i> | BCC/SSC | Nests in open conifer forest and woodland habitats. | Present. Known to breed in the Presidio. Suitable habitat is present in the project area. | Moderate potential. Suitable nesting habitat is present in the project site. |

| Common Name Scientific Name | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|---|------------------------------|---|---|---|
| yellow warbler <i>Dendroica petechia brewsteri</i> | BCC/SSC | Nests in riparian areas dominated by willows, cottonwoods, sycamores, alders, or mature chaparral; may use urban areas near waterways Period of identification: April-June | Low nesting potential. Uncommon seasonal migrant; not known to breed at Presidio. Could occur in willows of the project area. | Absent. No suitable habitat occurs in the project site. |
| San Francisco common yellowthroat <i>Geothlypis trichas sinuosa</i> | BCC/SSC | Nests in fresh and saltwater marshes, needs thick continuous cover down to water surface for foraging Period of identification: April-July | Low nesting potential. Uncommon resident and possible breeder at Mountain Lake outside of project area. | Absent. No suitable habitat occurs in the project site. |
| California gull <i>Larus californicus</i> (nesting colony) | --/WL | Colonial nester on islets in large interior lakes either fresh or strongly alkaline. Period of identification: Fall-spring | Low nesting potential. Common nonbreeding visitor in fall, winter and spring; occurs at Crissy Marsh mudflats. | No nesting potential. Common nonbreeding visitor. |
| Long-billed curlew <i>Numenius americanus</i> | --/WL | Breeds in upland shortgrass prairies and wet meadows in northeastern California in gravelly soils. Period of identification: Winter | No nesting potential. Uncommon winter visitor to sandy beaches and mudflats at Crissy Marsh. | Absent. No suitable habitat occurs in the project site. |
| Double-crested cormorant <i>Phalacrocorax auritus</i> (rookery site) | --/WL | Forages in a variety of habitats and nests in riparian forests or on protected islands. Period of identification: Year-round | No nesting potential. Common nonbreeding resident at Crissy Marsh. | Absent. No suitable habitat occurs in the project site. |
| Black skimmer <i>Rynchops niger</i> (nesting colony) | --/SSC | Requires shallow, calm water for foraging, and sand bars, beaches, or dikes for roosting and nesting. Period of identification: Spring-Summer | Low potential. Rare visitor to Bay Area that does not breed locally. | Absent. No suitable habitat occurs in the project site. |
| Allen's hummingbird <i>Selasphorus sasin</i> | BCC/-- | Brush and woodlands. Period of identification: Winter – Summer | Present. Known to nest at the Presidio and likely to nest in the project area. | High potential. May nest in landscape scrub within the project site. |

| Common Name Scientific Name | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|---|------------------------------|---|---|--|
| Mammals | | | | |
| Pallid bat <i>Antrozous pallidus</i> | --/SSC | Day roosts are mainly in caves, crevices and mines; also found in buildings and under bark. Forages in open lowland areas. Period of identification: February-August | Low potential. Occurrence at Presidio is unlikely. | Low Potential. Occurrence at Presidio is unlikely. |
| western mastiff bat <i>Eumops perotis californicus</i> | --/SSC | Needs rock crevices, grassland, coastal scrub; may use urban areas. Period of identification: February-August | Low potential. Roosting habitat considered poor; occurrence at Presidio is unlikely. | Low potential. Roosting habitat considered poor; occurrence at Presidio is unlikely. |
| western red bat <i>Lasiurus blossevillii</i> | --/SSC | Roosts primarily in trees, 2-40 feet above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging. | Moderate potential. Suitable habitat is present in mature trees the project area. | Moderate potential. Suitable habitat is present in the project site within the Historic Forest. |
| San Francisco dusky-footed woodrat <i>Neotoma fuscipes annectens</i> | --/SSC | Forests with moderate canopy cover and brushy understory. Period of identification: Year-round | Low potential. Marginal habitat occurs in the project area. | Absent. No suitable habitat occurs in project site. |
| Townsend's big-eared bat <i>Corynorhinus townsendii</i> | --/SC,SSC | Roosts in caves, mines, buildings or other human-made structures for roosting. Forages in open lowland areas. Period of identification: February-August | Low potential. Roosting habitat considered poor; occurrence at Presidio is unlikely. | Low potential. Roosting habitat considered poor; occurrence at the project site is unlikely. |

5-14

| Common Name <i>Scientific Name</i> | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|---|------------------------------|---|---|---|
| SPECIES ON OTHER LISTS | | | | |
| Invertebrates | | | | |
| Monarch butterfly <i>Danaus plexippus</i> (wintering sites) | --/* | Eucalyptus groves (winter sites). Period of identification: Winter | Low potential. Few eucalyptus trees remain in the project area. Wintering sites not previously documented in the project area. | Absent. No suitable habitat occurs in project site. |
| Birds | | | | |
| Cooper's hawk ⁶ <i>Accipiter cooperi</i> | --/3503.5 | Deciduous, coniferous, or riparian woodlands or forests. Nests in large conifers or deciduous trees. Period of identification: Year-round | Present. Known to nest at the Presidio. | Low potential. Potentially nests in suitable vegetation within the project site however human presence in this area may act as deterrence. |
| Great horned owl <i>Bubo virginianus</i> | --/3503.5 | Coniferous or deciduous forests and woodlands, parks. Often uses stick nests abandoned by corvids or other raptors. Nests in large trees, including eucalyptus and pines. Period of identification: Year-round | Present. Known to nest at the Presidio. | Low potential. May nest in Historic Forest within the project site however human presence in this area may act as deterrence. |
| Red-tailed hawk <i>Buteo jamaicensis</i> | --/3503.5 | Open stands of deciduous and coniferous forests; frequents croplands and pastures Period of identification: Year-round | Present. Potentially nests in mature trees within project area. | Moderate potential. May nest in Historic Forest within the project site however human presence in this area may act as deterrence. |

5-15

⁶Nesting raptors (hawks, falcons, and owls) are protected under California Fish and Game Code Section 3503.5

| Common Name <i>Scientific Name</i> | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|---|------------------------------|---|---|--|
| Red-shouldered hawk <i>Buteo lineatus</i> | --/3503.5 | Dense riparian woodland, hardwood-conifer habitats adjacent to swamps, marshes, and wet meadow Period of identification: Year-round | Present. Potentially nests in mature trees within project area. | Low potential. May nest in Historic Forest within the project site however human presence in this area may act as deterrence. |
| American kestrel <i>Falco sparverius</i> | --/3503.5 | Generally nests in cavities in large snags or on cliffs. Requires open to semi-open habitat for foraging. Period of identification: Year-round | Present. Uncommon to rare breeder at the Presidio but may forage in the project area. | Low potential. May nest in Historic Forest within the project site however human presence in this area may act as deterrence. |
| Western screech-owl <i>Megascops kennicottii</i> | --/3503.5 | Woodland, especially oak and riparian, and scrub habitats. Cavity nester, generally in snags. | Present. Last known San Francisco population occurs at Presidio, breeding not confirmed. | Low potential. May nest in Historic Forest within the project site however human presence in this area may act as deterrence. |
| Mammals | | | | |
| hoary bat <i>Lasiurus cinereus</i> | --/* | Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Feeds primarily on moths; requires water. | Moderate potential. Suitable roosting habitat potentially in Historic Forest trees in project area. Species previously documented in the Presidio. | Moderate potential. Suitable roosting habitat potentially in Historic Forest trees in project site. |

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| Common Name <i>Scientific Name</i> | Listing Status USFWS/CDFW | Habitat Requirements / Period of Identification | Potential Species Occurrence in the Project Area | Potential Species Occurrence in the Project Site |
|---|------------------------------|---|--|---|
| Yuma myotis <i>Myotis yumanensis</i> | --/* | Roosts in caves, old buildings and under bark. Forms maternity colony in the spring. Period of identification: August – October, January – February | High potential. Documented in the Presidio. Suitable roosting habitat potentially in Historic Forest trees in project area. | High potential. Suitable roosting habitat potentially in Historic Forest trees in project site and vacant buildings. |

Status Codes:

**Federal Categories
(U.S. Fish and Wildlife Service)**

FE = Listed as Endangered by the Federal Government
 FT = Listed as Threatened by the Federal Government
 FD = Federal Delisted; status monitored for five years
 FC = Federal Candidate
 BCC = Federal Bird of Conservation Concern
 -- No listing status

**State Categories
(California Department of Fish and Wildlife)**

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
 SSC = Species of Special Concern
 CFP = Fully Protected by the State of California
 SC = State Candidate
 CD = California Delisted
 * = California Natural Diversity Database Special Animals List

Source: CDFW 2015a; CDFW 2015b; CNPS 2015a; CNPS 2015b; CNDDDB 2015; eBird 2015; ESA 2015; Jones and Stokes Associates 1997; Krauel 2009; Presidio Trust 2010c; Presidio Trust and NPS 2001; San Francisco Field Ornithologists 2003; USFWS 2015; Wood Biological Consulting 2014.