

Bib # 161271

Special Status Species &
Occurance @ Fort Baker
from:

FORT BAKER PLAN
FINAL ENVIRONMENTAL IMPACT STATEMENT



October 1999

For Stefanie S.
From Jessica



Volume I

FORT BAKER

Proposed Plan EIS

APPENDIX C LIST OF SPECIAL STATUS SPECIES

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
Mammals				
Yuma myotis bat <i>Myotis yumanensis</i>	FSC	Roosts in caves, mines, and buildings.	Found within the SF Bay Area and Marin Headlands.	May occur in buildings at Fort Baker.
Long-eared myotis bat <i>Myotis evotis</i>	FSC	Roosts in trees, caves, mines, and buildings.	Found within the SF Bay Area.	May occur in buildings at Fort Baker.
Fringed myotis bat <i>Myotis thysanodes</i>	FSC	Roosts in caves, mines, and buildings.	Found within the SF Bay Area.	May occur in buildings at Fort Baker.
Long-legged myotis bat <i>Myotis volans</i>	FSC	Roosts in trees, caves, mines, and buildings.	Found within the SF Bay Area.	May occur in buildings at Fort Baker.
Townsend's western big-eared bat <i>Plecotus townsendii townsendii</i>	FSC	Roosts in caves, mines, and buildings.	Found within the SF Bay Area and Marin Headlands.	Likely to occur in low numbers in buildings at Fort Baker.
Greater western mastiff bat <i>Eumops perotis californicus</i>	FSC	Roosts in trees, caves, mines, and buildings.	Found within the SF Bay Area.	May occur in buildings at Fort Baker.
Salt marsh harvest mouse <i>Reithrodontomys raviventris</i>	FE/SE	Salt marshes with dense pickleweed.	Isolated populations in salt marshes around SF Bay.	Salt marsh habitat not present; species not likely to occur.
San Francisco dusky-footed woodrat <i>Neotoma fuscipes annectens</i>	FSC	Found in grasslands, scrub, and wooded areas.	Found throughout the SF Bay Area.	Most likely occurs at Fort Baker.
Point Reyes jumping mouse <i>Zapus trinotatus orarius</i>	FSC	Coastal forests	Found only along the coast north of Marin County.	May occur at Fort Baker.

FE - Federally Endangered
FT - Federally Threatened
FSC - Federal Species of Concern
MMPA - Marine Mammal Protection Act

FPE - Federally Proposed Endangered
FPT - Federally Proposed Threatened
IB - CNPS Rare Plant

SE - State Endangered
ST - State Threatened
CSC - California Species of Concern

FORT BAKER

Proposed Plan EIS

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
American badger <i>Taxidea taxus</i>	CSC	Grasslands	Found throughout California.	Observed on Wolfback Ridge.
California sea lion <i>Zalophus californianus</i>	MMPA	Coastal waters and haul-out areas along the coast and islands.	Found within SF Bay, with a number of haul-out locations.	Sea lions have been observed using Horseshoe Bay.
Harbor seal <i>Phoca vitulina</i>	MMPA	Coastal waters and haul-out areas along the coast and islands.	Found within SF Bay, with a number of haul-out locations.	Harbor seals have been observed using Horseshoe Bay.

Birds

American peregrine falcon <i>Falco peregrinus anatum</i>	FE/SE	Breeds on cliffs and ledges adjacent to open water. Will nest on tall city buildings.	Coast range and Sierra Nevada range.	Nests have been observed on the Golden Gate Bridge, and probably forages over Fort Baker.
California brown pelican <i>Pelecanus occidentalis californicus</i>	FE/SE	Fishes in coastal waters and the SF Bay. Nest on channel islands and Mexico.	Coastal California.	Observed foraging and resting within Horseshoe Bay.
California clapper rail <i>Rallus longirostris obsoletus</i>	FE/SE	Salt marshes.	California coastal wetlands, known in SF Bay salt marshes.	The appropriate habitat does not exist at Fort Baker. It is unlikely that this species occurs at Fort Baker.
Least tern <i>Sterna antillarum</i>	FE/SE	Forages in shallow and open water and nests in colonies in salt ponds.	Known to nest and forage in the SF Bay.	Least terns have been observed feeding in Horseshoe Bay and next to the jetties.
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	FT/CSC	Forages on dry upper beaches. Nests on sandy beaches or salt pond levees.	Spring and summer migratory visitor to coasts. Known to nest at Pt. Reyes.	Small beach with frequent human disturbance unlikely used for foraging. Fort Baker beach not suitable for nesting.

FE - Federally Endangered
FT - Federally Threatened
FSC - Federal Species of Concern
MMPA - Marine Mammal Protection Act

FPE - Federally Proposed Endangered
FPT - Federally Proposed Threatened
IB - CNPS Rare Plant

SE - State Endangered
ST - State Threatened
CSC - California Species of Concern

FORT BAKER

Proposed Plan EIS

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
Bald eagle <i>Haliaeetus leucocephalus</i>	FE/SE	Forages on fish in large rivers and water bodies.	Remote locations in Northern California; does not nest in Bay Area.	Rare migrant in the GGNRA, but highly unlikely to use Fort Baker due to human disturbance.
Common loon <i>Gavia immer</i>	CSC	Breeds in large fresh water lakes, forages along Pacific coast.	Common migrant along coastal California.	Has been observed in Horseshoe Bay.
Double-crested cormorant <i>Phalacrocorax auritus</i>	CSC	Yearlong resident of large salt and fresh water bodies.	Known to occur within SF Bay, and nest on Bay Area bridges.	Has been observed in Horseshoe Bay.
Tricolored blackbird <i>Agelaius tricolor</i>	FSC	Breeds near fresh water wetlands.	Found in limited locations within the SF Bay and Central Valley.	Unlikely to be found at Fort Baker, as breeding habitat is not present.
Bell's sage sparrow <i>Amphispiza belli belli</i>	FSC	Dense stands of scrubs.	Range includes SF Bay Area.	Could possibly use Fort Baker.
Salt-marsh common yellowthroat <i>Geothlypis trichas sinuosa</i>	FSC	Dense thickets of willows near fresh water.	Found throughout SF Bay Area.	Could possibly use Fort Baker.
Ashy storm-petrel <i>Oceanodroma homochroa</i>	FSC	Marine Habitats.	Coastal California.	No reports of occurrence at Fort Baker.
Ferruginous hawk <i>Buteo regalis</i>	FSC	Hunts in grasslands and scrub habitats.	Only winters in California, found within SF Bay Area.	May visit Fort Baker during winter.
California gull <i>Larus californicus</i>	CSC	Frequents many types of habitats, yet breeds east of the Sierra Nevada range. Two nesting colonies found in salt ponds in SF Bay.	April through August at breeding grounds east of Sierra Nevada range, otherwise found throughout coastal California.	Has been observed in Horseshoe Bay.

FE – Federally Endangered
 FT – Federally Threatened
 FSC – Federal Species of Concern
 MMPA – Marine Mammal Protection Act

FPE – Federally Proposed Endangered
 FPT – Federally Proposed Threatened
 IB – CNPS Rare Plant

SE – State Endangered
 ST – State Threatened
 CSC – California Species of Concern

FORT BAKER

Proposed Plan EIS

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
Amphibians and Reptiles				
California red-legged frog <i>Rana aurora draytoni</i>	FT/CSC	Pools of streams, marshes, and pond edges with willows and emergent vegetation.	Occurs in the coast range east to the Sierra Nevada range.	Occurs within the Marin Headlands, but unlikely to occur at Fort Baker as suitable wetland habitat does not exist.
Foothill yellow-legged frog <i>Rana boylei</i>	SC	Wooded streams with rocky bottoms.	Found in coastal California streams.	Unlikely to occur as habitat is not present.
California Tiger Salamander <i>Ambystoma californiense</i>	Federal Candidate	Adults wait for prey in subterranean burrows. Pre-metamorphic juveniles require permeate or temporary ponds.	Annual grassland and Valley-foothill hardwood forests along the coast from Marin to Santa Barbara, and from Yolo to Tulare counties in the Central Valley.	Required wetland breeding habitat does not occur at Fort Baker. It is unlikely that this species occurs.
Fish				
Winter-run chinook salmon <i>Oncorhynchus tshawytscha</i>	FE/SE	Adults feed in open ocean and migrate to inland streams. Eggs and young require cold rivers with pools and clean gravel.	Pacific coast rivers from central California to central Washington.	Breeding habitat does not occur at Fort Baker. Salmon may enter Horseshoe Bay as they enter or leave SF Bay.
Winter-run chinook salmon critical habitat <i>Oncorhynchus tshawytscha</i>		Adults feed in open ocean and migrate to inland streams. Eggs and young require cold rivers with pools and clean gravel.	The Sacramento River and related riparian zones from Keswick Dam downstream to and including SF Bay.	Horseshoe Bay is considered critical habitat for the winter run chinook salmon.

FE - Federally Endangered
 FT - Federally Threatened
 FSC - Federal Species of Concern
 MMPA - Marine Mammal Protection Act

FPE - Federally Proposed Endangered
 FPT - Federally Proposed Threatened
 LB - CNPS Rare Plant

SE - State Endangered
 ST - State Threatened
 CSC - California Species of Concern

FORT BAKER

Proposed Plan EIS

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
Spring-run chinook salmon	ESU	same as above	same as above	Adults migrating to the Sacramento-San Joaquin River system may be present in the S.F. Bay from March through July. Outmigrating smolts may be present from November through March.
Fall and late-fall run chinook salmon	ESU	same as above	same as above	Adults migrating to the Sacramento-San Joaquin River system may be present in the S.F. Bay from July through February. Outmigrating smolts may be present throughout the year.
Coho salmon - central California ESU <i>Oncorhynchus kisutch</i>	FT	Adults feed in open ocean and migrate to inland streams. Eggs and young require cold rivers with pools and clean gravel.	Pacific coast rivers from Monterey Bay to northern boarder.	Breeding habitat does not occur at Fort Baker. Salmon may enter Horseshoe Bay as they enter SF Bay.
Steelhead - central valley and central California coast ESUs <i>Oncorhynchus mykiss</i>	FT	Adults feed in open ocean and migrate to inland streams. Eggs and young require cold rivers with pools and clean gravel.	Pacific coast rivers.	Breeding habitat does not occur at Fort Baker. Salmon may enter Horseshoe Bay as they enter SF Bay.
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	FPT	Sloughs and backwaters for the SF Bay Delta and adjacent Sacramento River.	The SF Bay Delta and adjacent Sacramento River.	Horseshoe Bay is outside the range of this species. Required habitat does not exist at Fort Baker.

FE - Federally Endangered
 FT - Federally Threatened
 FSC - Federal Species of Concern
 MMPA - Marine Mammal Protection Act

FPE - Federally Proposed Endangered
 FPT - Federally Proposed Threatened
 IB - CNPS Rare Plant

SE - State Endangered
 ST - State Threatened
 CSC - California Species of Concern

FORT BAKER

Proposed Plan EIS

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
Invertebrates				
Mission blue butterfly <i>Icaricia icariodes missionensis</i>	FE	Butterflies require larval host plant (lupines) within coastal scrub and grasslands.	Locally distributed in Marin, SF, and San Mateo counties.	Butterflies currently occupy existing habitat within Fort Baker.
San Bruno elfin butterfly <i>Incisalia mossii bayensis</i>	FE	Butterflies require larval host plant (<i>Sedum spathulifolium</i>) on rocky outcrops within coastal scrub.	Locally distributed only on the SF Peninsula.	Fort Baker is not within the species range.
Monarch butterfly <i>Danaus plexippus</i>	CSC Special Phenomenon	Throughout California, yet require autumn cluster sites for the fall migration.	Throughout most of California.	Autumn clusters occur at Fort Baker.
Opler's longhorn moth <i>Addela oplerella</i>	FSC	Found on serpentine grasslands.	Found in Marin County and San Francisco County.	May occur in the grasslands of Fort Baker.
Sandy beach tiger beetle <i>Cicindela hirticollis gravida</i>	FSC	Sand dune habitats.	Central coastal California.	Habitat not present at Fort Baker.
Glogose dune beetle <i>Coelus globosus</i>	FSC	Sand dune habitats.	Central coastal California.	Habitat not present at Fort Baker.
Ricksecker's water scavenger beetle <i>Hydrochara rickseckeri</i>	FSC	Fresh water habitats.	Found in the SF Bay Area.	No reports of occurrence at Fort Baker.
Bumblebee scarab beetle <i>Lichnanthe ursina</i>	FSC	Sand dune habitats.	Central coastal California.	Habitat not present at Fort Baker.
Plants				
San Francisco wallflower <i>Erysimum franciscanum</i>	FSC	Coastal bluffs.	Found in San Francisco and Marin counties.	Occurs on coastal bluffs adjacent to the north tower of the GG Bridge adjacent to Fort Baker.

FE – Federally Endangered
 FT – Federally Threatened
 FSC – Federal Species of Concern
 MMPA – Marine Mammal Protection Act

FPE – Federally Proposed Endangered
 FPT – Federally Proposed Threatened
 1B – CNPS Rare Plant

SE – State Endangered
 ST – State Threatened
 CSC – California Species of Concern

FORT BAKER

Proposed Plan EIS

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
Presidio manzanita <i>Arctostaphylos hookeri ravenii</i>	FE/SE/1B	Serpentine chaparral and coastal grasslands.	Only found in the Presidio in SF County.	Fort Baker is not within the species range. In addition, serpentine communities are not found at Fort Baker.
San Francisco manzanita <i>Arctostaphylos hookeri</i> <i>ssp. franciscana</i>	FSC	Serpentine scrub.	Only found in cultivation.	Only found in cultivation.
Marsh sandwort <i>Arenaria paludicola</i>	FE/SE/1B	Marsh wetlands.	Currently only found in San Luis Obispo County.	Unlikely to occur at Fort Baker as suitable wetland habitat does not exist.
Presidio clarkia <i>Clarkia franciscana</i>	FE/SE/1B	Coastal scrub and grassland, associated with serpentine.	Only found in the Presidio in SF County.	Fort Baker is not within the species range. In addition, serpentine communities are not found at Fort Baker.
Beach layia <i>Layia carnosa</i>	FE/SE/1B	Coastal sand dunes.	Found in sand dunes in central and northern coastal California.	The appropriate dune habitat does not exist at Fort Baker. It is unlikely that this species occurs at Fort Baker.
Marian dwarf-flax <i>Hesperolinon congestum</i>	FT/ST/1B	Serpentine grasslands, scrub, and coastal prairie habitats.	Locally distributed in Marin, SF, and San Mateo counties.	The appropriate serpentine-based habitats do not exist at Fort Baker. It is unlikely that this species occurs at Fort Baker.
Alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i>	FSC	Annual herb found in grasslands.	Known to occur in the Central Valley.	Not reported at Fort Baker.
San Francisco gumplant <i>Grindelia hirsutula</i> var. <i>maritima</i>	FSC	Perennial herb found in coastal scrub and grasslands.	Found in Marin County.	Not reported at Fort Baker.
Kellogg's horkelia <i>Horkelia cuneata</i> ssp. <i>Sericea</i>	FSC	Perennial herb found in coastal forests and scrub.	Found in Marin County.	Not reported at Fort Baker.

FE – Federally Endangered
 FT – Federally Threatened
 FSC – Federal Species of Concern
 MMPA – Marine Mammal Protection Act

FPE – Federally Proposed Endangered
 FPT – Federally Proposed Threatened
 1B – CNPS Rare Plant

SE – State Endangered
 ST – State Threatened
 CSC – California Species of Concern

FORT BAKER

Proposed Plan EIS

Species	Status	Habitat	Known Distribution	Occurrence at Fort Baker
Adobe sanicle <i>Sanicula maritima</i>	FSC	Perennial herb found in coastal grasslands and scrub habitats.	Found in San Francisco County.	Not reported at Fort Baker.
Mission Dolores campion <i>Silene verecunda</i> ssp. <i>Verecunda</i>	FSC	Perennial herb found in coastal grasslands and scrub habitats.	Found in San Francisco County.	Not reported at Fort Baker.
San Francisco owl's clover <i>Triphysaria floribunda</i>	FSC	Annual herb found in coastal parries and grasslands.	Found in San Francisco County.	Not reported at Fort Baker.
Marin checkermallow <i>Sidalcea hickmanii</i> ssp. <i>viridis</i>	FSC	Perennial herb found in serpentine scrub	Found in Marin County.	Not reported at Fort Baker.
San Francisco lessingia <i>Lessingia germanorum</i>	FPE/CSC	Coastal scrub.	Found only in SF (Presidio) and San Bruno Mountain.	Out of species current range, no known occurrence of species within Fort Baker.

FE – Federally Endangered
 FT – Federally Threatened
 FSC – Federal Species of Concern
 MMPA – Marine Mammal Protection Act

FPE – Federally Proposed Endangered
 FPT – Federally Proposed Threatened
 IB – CNPS Rare Plant

SE – State Endangered
 ST – State Threatened
 CSC – California Species of Concern