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Final
General Management Plan Amendment
Environmental Impact Statement

Golden Gate National Recreation Area
Presidio of San Francisco
San Francisco, California



This *Final General Management Plan Amendment and Final Environmental Impact Statement* describes and analyzes a proposed action and three alternatives for future management and use of the Presidio of San Francisco. The proposed action and alternatives were fully examined in the *Draft General Management Plan and Environmental Impact Statement* released in October 1993. The final proposed action (alternative A) and other alternatives have been formulated to address problems and management concerns related to visitor use and programs (access, traffic congestion, increased visitation, inadequate facilities), resource management (cultural and natural resource preservation), management of an extensive building inventory, park management, financial and legislative needs, and preservation of a sense of community. All of the alternatives have been designed to protect and preserve exceptional resources and to meet planning objectives and goals for the future Presidio. The alternatives differ primarily in approach to overall management, level and extent of resource preservation and enhancement, and diversity and level of visitor programs. Alternatives A and D call for a congressionally authorized management entity to help with overall management of the Presidio; alternatives B and C use existing NPS authorities for management. Alternatives A and C provide the highest level of overall resource protection and enhancement; alternatives B and D the lowest levels. Alternatives A and C provide the highest level

of program diversity for the public; alternatives B and D provide the lowest levels. Alternatives B and C do not include the former Public Health Service hospital within the boundaries of Golden Gate National Recreation Area. Major impact topics assessed for the proposed action and alternatives include natural and cultural resources, traffic and transportation systems, city services, native plant communities, regional economy and employment, noise, and air quality.

The no-action period on this plan and environmental impact statement will end 30 days after the Environmental Protection Agency has accepted the document and published a notice of availability in the *Federal Register*. For further information, contact:

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Introduction

In 1972 Congress authorized the establishment of Golden Gate National Recreation Area, a collection of parklands and historic sites surrounding San Francisco's Golden Gate. The national recreation area was to "preserve for public use and enjoyment certain areas . . . possessing outstanding natural, historic, scenic, and recreational values, and . . . to provide for the maintenance of needed recreational open space necessary to urban environment and planning" (Public Law 92-589).

The Presidio of San Francisco was included in the 1972 authorization. The law stated that the post was to be transferred to the national recreation area when the Army determined it to be excess to its needs. In 1989, as a result of the Base Realignment and Closure Act, the Army announced that the post would be closed and began plans to vacate by 1995.

The 1980 Golden Gate National Recreation Area *General Management Plan/Environmental Analysis* (NPS 1980) was completed before the Army determined the Presidio to be excess to its needs and began steps to transfer it to the National Park Service. Therefore, the plan did not identify management actions for the area. The Golden Gate plan is now being amended to include decisions about future management and use of the Presidio. The amendment is being presented in two companion documents — the *Final General Management Plan Amendment*, which identifies the Park Service's proposed action for the Presidio; and this *Final Environmental Impact Statement* (FEIS), which describes four alternatives, including the NPS proposed action, and analyzes the environmental consequences of implementing them.

The proposed action and three alternatives were included in the *Draft General Management Plan Amendment* (NPS 1993a) and *Draft Environmental Impact Statement* (NPS 1993a), which were distributed for public review October through December of 1993. Based on the comments received during the review, the proposed action has been revised, and the text of this *Final Environmental Impact Statement* revised to clarify certain sections. The final proposed action has also been modified to reflect changes due to the Sixth Army's future occupancy of the Presidio.

Appendix A: Threatened, Endangered, Sensitive, and Special-Status Species

TABLE A-1: KNOWN OR POTENTIALLY OCCURRING SPECIAL-STATUS PLANT SPECIES

Common Name	Scientific Name	Federal/State/CNPS Legal Status ^a	Habitat
Laurel Hill manzanita	<i>Arctostaphylos hookeri</i> ssp. <i>franciscana</i>	C1**/-/1A	Coastal serpentine scrub
Raven's manzanita ^b	<i>Arctostaphylos hookeri</i> var. <i>ravenii</i>	E/E/1B	Serpentine chaparral; coastal prairie endemic to the Presidio
Marsh sandwort	<i>Arenaria paludicola</i>	E/E/1B	Freshwater marsh
Coast rock cress ^b	<i>Arabis blepharophylla</i>	C3/-/4	Coastal prairie and scrub; broadleaved upland forest
Point Reyes bird's-beak	<i>Cordylanthus maritimus</i> ssp. <i>palustris</i>	C2/-/1B	Coastal salt marsh
Presidio clarkia ^b	<i>Clarkia franciscana</i>	PE/E/1B	Coastal scrub; valley and foothill grassland, often on serpentine endemic to the Presidio
San Francisco wallflower	<i>Erysimum franciscanum</i>	C2/-/4	Coastal dunes; coastal scrub, often serpentine
San Francisco gumplant ^b	<i>Grindelia hirsutula</i> var. <i>maritima</i>	C2/-/1B	Coastal scrub and bluff scrub; valley and foothill grassland
Marin dwarf flax ^b	<i>Hesperolinon congestum</i>	PT/T/1B	Serpentine grassland
Wedge-leaved horkelia	<i>Horkelia cuneata</i> ssp. <i>sericea</i>	C2/-/1B	Closed-cone conifer forest; coastal scrub
Beach layia	<i>Layia carnosa</i>	E/E/1B	Coastal dunes
San Francisco lessingia ^b	<i>Lessingia germanorum</i>	C1/E/1B	Coastal scrub endemic to the Presidio
Coast lily	<i>Lilium maritimum</i>	C1/-/1B	Closed-cone pine forest; coastal prairie and scrub
San Francisco owl clover ^b	<i>Triphysaria floribunda</i>	C2/-/1B	Coastal prairie; valley and foothill grassland
San Francisco popcorn flower ^c	<i>Plagiobothrys reticulatus</i> var. <i>rossianorum</i>	C2*/E/1B	Valley and foothill grassland
Marina checkerbloom	<i>Sidalcea hickmanii</i> ssp. <i>viridis</i>	C2/-/1B	Chaparral
San Francisco campion	<i>Silene verecunda</i> ssp. <i>verecunda</i>	C2/-/1B	Coastal scrub; valley and foothill grassland

SOURCES: Jones & Stokes Associates 1990a, National Park Service.

TABLE A-1: KNOWN OR POTENTIALLY OCCURRING SPECIAL-STATUS PLANT SPECIES, CONTINUED

a. Status definitions:

Federal	=	U.S. Fish and Wildlife Service (50 CFR 17.12; 55 FR 6184, February 21, 1990).
E	=	Listed as endangered under the federal Endangered Species Act.
PE	=	Proposed for listing as endangered under federal Endangered Species Act.
PT	=	Proposed for listing as threatened under federal Endangered Species Act.
C1	=	A candidate species under review for federal listing. Category 1 includes species for which the USFWS has substantial information on biological vulnerability and threats to support the appropriateness of proposing to list them as threatened or endangered.
C2	=	A candidate species under review for federal listing. Category 2 includes species for which the USFWS presently has some information indicating that proposing to list them as threatened or endangered is warranted but for which further biological research and field study are needed to determine biological vulnerability and threats.
C3	=	Non-candidate species at this time, too wide-spread or not threatened.
State	=	California Department of Fish and Game (1987).
E	=	Listed as endangered under the state Endangered Species Act
T	=	Listed as threatened under the state Endangered Species Act.
CNPS	=	California Native Plant Society (Smith and Berg 1988).
1A	=	Presumed extinct in California.
1B	=	Considered rare and endangered in California and probably meets state definition for listing as rare, threatened, or endangered.
2	=	Considered rare and endangered in California but more common elsewhere.
3	=	Suggested for listing, but necessary information is lacking that would allow assignment to one of the other lists or to reject assignment.
4	=	Considered rare but not endangered (species that do not presently meet state criteria for listing under the Endangered Species Act).
*	=	Possibly extinct.
**	=	Believed to be extinct in the wild but extant in cultivation.

b. Known occurrence at the Presidio.

c. Last known occurrence at the Presidio (1933).

TABLE A-2: POSSIBLE THREATENED, ENDANGERED, AND SPECIAL-STATUS ANIMAL SPECIES

Common Name	Scientific Name	Status	Habitat
FISHES:			
Sacramento River winter-run chinook salmon	<i>Oncorhynchus tshawytscha</i>	FE, SE	Critical habitat includes SF Bay east of Golden Gate Bridge.
AMPHIBIANS:			
California red-legged frog	<i>Rana aurora draytonii</i>	PE, CSC	*Mountain Lake; has not been found during recent surveys.
REPTILES:			
San Francisco garter snake	<i>Thamnophis sirtalis tetrataenia</i>	FE, SE	Never occurred in San Francisco; requires ponds or marshes with emergent vegetation.
Southwestern pond turtle	<i>Clemmys marmorata pallida</i>	FC2, CSC	*Mountain Lake; may be extirpated. Not found during recent surveys.
BIRDS:			
American white pelican	<i>Pelecanus erythrorhynchos californicus</i>	CSC	*SF Bay, uncommon.
Bald eagle	<i>Haliaeetus leucocephalus</i>	FE, SE	*Winter resident in SF bay area.
Brown pelican	<i>Pelecanus occidentalis californicus</i>	FE, SE	*Occurs along coastal areas.
California gull	<i>Larus californicus</i>	CSC	*Common, non-breeding season, aerial, ocean and bay.
California least tern	<i>Sterna antillarum browni</i>	FE, SE	*Coast Guard station pier and breakwater during summer, offshore, aerial.
Common loon	<i>Gavia immer</i>	CSC	*Uncommon migrant and winter resident, ocean.
Cooper's hawk	<i>Accipiter cooperi</i>	CSC	*Uncommon non-breeding.
Double-crested cormorant	<i>Phalacrocorax auritus</i>	CSC	*Year-round resident on fresh and salt water, nests on Bay Bridge.
Elegant tern	<i>Sterna elegans</i>	FC2, CSC	*Coast Guard pier and breakwater during summer and fall; offshore.
Ferruginous hawk	<i>Buteo regalis</i>	FC2, CSC	*Rare on migration, aerial.
Golden eagle	<i>Aquila chrysaetos</i>	CSC	*Uncommon migrant, aerial.
Harlequin duck	<i>Histrionicus histrionicus</i>	FC2, CSC	*Very rare winter visitor, ocean.
Loggerhead shrike	<i>Lanius ludovicianus</i>	FC2, CSC	*Rare winter migrant.
Long-billed curlew	<i>Numenius americanus</i>	CSC	*Rare winter visitor, sandy beach.

TABLE A-2: POSSIBLE THREATENED, ENDANGERED, AND SPECIAL-STATUS ANIMAL SPECIES *CONTINUED*

Common Name	Scientific Name	Status	Habitat
Northern goshawk	<i>Accipiter gentilis</i>	FC2, CSC	*Very rare fall migrant, aerial.
Northern harrier	<i>Circus cyaneus</i>	CSC	*Uncommon migrant.
Osprey	<i>Pandion haliaetus</i>	CSC	*Uncommon year-round, aerial.
Peregrine falcon	<i>Falco peregrinus anatum</i>	FE, SE	*Resident, breeds in SF Bay.
Prairie falcon	<i>Falco mexicanus</i>	CSC	*Rare migrant, aerial.
Sharp-shinned hawk	<i>Accipiter striatus</i>	CSC	*Uncommon, non-breeding.
Snowy plover	<i>Charadrius alexandrinus nivosus</i>	FT, CSC	*Crissy Field and Fort Point, occasional winter resident.
Swainson's hawk	<i>Buteo swainsoni</i>	ST	*Very rare migrant, aerial.
Willow flycatcher	<i>Empidonax traillii</i>	SE	*Uncommon migrant.
Vaux's swift	<i>Chaetura vauxi</i>	CSC	*Uncommon migrant, aerial.
Yellow warbler	<i>Dendroica petechia</i>	CSC	*Uncommon during non-breeding season, woodlands.
MAMMALS:			
Greater western mastiff bat	<i>Eumops perotis californicus</i>	FC2, CSC	No records; could live on buildings or cliffs temporarily during migration.
Pallid bat	<i>Antrozous pallidus</i>	CSC	No records, could occur in buildings, trees.
Townsend's western big-eared bat	<i>Plecotus townsendii</i>	FC2, CSC	No records, could occur in buildings and trees.
INVERTEBRATES:			
Bumblebee scarab beetle	<i>Lichnanthe ursina</i>	FC2	Potentially in dunes and sandy areas such as Crissy Field, Baker Beach.
Globose dune beetle	<i>Coelus globosus</i>	FC2	Potentially in dunes and sandy areas such as Crissy Field.
Mission blue butterfly	<i>Icaricia icarioides missionensis</i>	FE	Coastal scrub with populations of <i>Lupinus albifrons</i> , <i>L. varicolor</i> and <i>L. formosus</i> . Not found during recent surveys.
San Francisco fork-tailed damselfly	<i>Ischnura gemina</i>	FC2	Not found on Lobos Creek survey
Ricksecker's water scavenger beetle	<i>Hydrochara rickseckeri</i>	FC2	Potentially in riparian areas such as Lobos Creek

TABLE A-2: POSSIBLE THREATENED, ENDANGERED, AND SPECIAL-STATUS ANIMAL SPECIES, *CONTINUED*

*Species marked with an asterisk have been recorded from the Presidio. For the other species, the habitat entry describes areas or habitats that should be searched for these species.

Status Definitions:

Federal

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| FE | = | Listed as endangered under the federal Endangered Species Act. |
| FT | = | Listed as threatened under the federal Endangered Species Act. |
| FC1 | = | A candidate species under review for listing as endangered or threatened. Category 1 species are those for which the USFWS has enough substantial information on biological vulnerability and threat(s) to support a proposal to list a species. Development and publication of the proposed rule is anticipated. |
| FC2 | = | A candidate species for which there is some evidence of vulnerability but for which there are not enough data to support a listing proposal at this time. USFWS has some information indicating that a listing proposal is warranted but for which further biological research and field study are needed to determine biological vulnerability and threats. |
| PE | = | Proposed for listing as endangered under the Federal Endangered Species Act. |

State

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|----|---|---|
| SE | = | Listed as endangered under the California Endangered Species Act. |
| ST | = | Listed as threatened under the California Endangered Species Act. |

CSC

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| = | Considered by the California Department of Fish and Game to be a species of special concern. These species fall into one or more of the following categories: species that are biologically rare, very restricted in distribution, or declining throughout their range; populations in California that may be peripheral to the major portion of the species' range but which are threatened with extirpation in California; species closely associated with a habitat that is declining in California at an alarming rate. |
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