APPENDIXES

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APPENDIX A: MAJOR DEVELOPMENT PRIORITIES AND COST SUMMARY

The following list represents the major development priorities for the parks. The numerical ranking of the projects is based on a number of considerations including legislative mandates to preserve cultural and natural resources as well as the responsibility to deliver safe recreation opportunities to the public.

FORT POINT NATIONAL HISTORIC SITE

1.	seawall rehabilitation	$500,000
2.	historic restoration of fort	$2,000,000

MUIR WOODS NATIONAL MONUMENT

1.	relocate maintenance and administrative facilities	$300,000
2.	relocate 100-car parking area, construct new restrooms	$400,000

POINT REYES NATIONAL SEASHORE

1.	BEAR VALLEY new visitor information center	$1,500,000
2.	LIMANTOUR repair/rehabilitation of utilities, roads, parking area, and visitor facilities	$2,700,000
3.	LIGHTHOUSE historic preservation and rehabilitation of visitor facilities	$401,000
4.	PARK ROAD SYSTEMS repair and rehabilitation of roadways and improved trailhead facilities	$6,580,000
5.	MISC. INTERPRETIVE IMPROVEMENTS	$270,000
6.	LIFEBOAT STATION historic preservation and adaptation for public use	$1,137,000
7.	PIERCE POINT RANCH historic preservation and adaptation for public use	$1,460,000

8.	BACKCOUNTRY CAMPGROUNDS construct three new camps and rehabilitate existing facilities	$505,000
9.	TOMALES BAY boat dock and ranger station	$235,000
10.	BEAR VALLEY administrative and maintenance facilities	$3,270,000

GOLDEN GATE NATIONAL RECREATION AREA

1.	FORT MASON adaptation of historic buildings for public use, landscaping, and site improvement	$5,000,000
2.	AQUATIC PARK repair and rehabilitation of historic ships	$5,000,000
3.	AQUATIC PARK ship protection, mooring, and repair facilities	$3,000,000
4.	ALCATRAZ historic structure preservation	$4,000,000
5.	MARIN HEADLANDS sewage system	$1,700,000
6.	FORTS BARRY AND CRONKHITE historic structure preservation	$1,000,000
7.	STINSON BEACH new entrance to beach parking area	$500,000
8.	ALCATRAZ building demolition, rubble disposal, and hazard abatement	$2,500,000
9.	FORT BAKER waterfront improvements	$2,000,000
10.	AQUATIC PARK new maritime museum--Haslett Warehouse	$15,000,000
11.	ALCATRAZ landscaping and site improvements	$3,000,000
12.	SUTRO BATHS park development	$6,000,000

13.	CRISSY FIELD landscaping and site improvements	$2,000,000
14.	CLIFF HOUSE AREA esplanade rehabilitation	$1,000,000
15.	AQUATIC PARK site improvements	$2,000,000
16.	CLIFF HOUSE historic restoration	$3,500,000

Of the congressional acts that established Point Reyes, Fort Point, and Golden Gate, only those for Fort Point and Golden Gate specified an amount not to be exceeded in the development of each park. Those amounts were $5,250,000 (February 1970 prices) for Fort Point and $58,000,000 (May 1971 prices) for Golden Gate. As of 1980 these figures were approximately doubled through adjustments for inflation. Based on current plan proposals, total development costs will easily remain within the ceilings.

ALCATRAZ

A	B	C
Museum (50 people)	Museum (50 people)	*Museum (250 people)
Ranger tour area (12 acres/300 people)	*Ranger tour area (6 acres/150 people)	Ranger tour area (12 acres/300 people)
*Informal recreation space (3.5 acres)	*Informal recreation space (6 acres)	*Informal recreation space (2 acres)
*Open space (6 acres)	*Open space (9 acres)	*Open space (6 acres)
Ferry terminal (400 people/0.2 acre)	Ferry terminal (400 people/0.2 acre)	*Ferry terminal (800 people/0.3 acre)
	*Wayside exhibits and interpretive area (30 people/1 acre)	*Wayside exhibits
		*Self-guiding trails and interpretive areas (60 people/2 acres)

*New facility or condition

Capacity figures indicate number of people at one time.

AQUATIC PARK

A	B	C	D
Hyde Street Pier and historic ships (4 ships/450 people)	Hyde Street Pier and historic ships (4 ships/450 people)	*Historic ships (12 ships/850 people)	Hyde Street Pier and historic ships (4 ships/450 people)
		**Environmental living program	
Maritime Museum (250 people)	Maritime Museum (250 people)	Maritime Museum (500 people)	**Maritime Museum relocated to Haslett Warehouse (1,000 people)
		*Wayside exhibits	
Senior center (200 people)	Senior center (200 people)		
Private office space in Haslett Warehouse			**Indoor senior center in old Maritime Museum building (450 people)
Rowing and swimming clubs	**Rowing and swimming clubs relocated to Haslett Warehouse	Rowing and swimming clubs	*Public rowing, swimming, and sailing facilities
Sea Scout facility	Sea Scout facility	Sea Scout facility	
Beach comfort facility	Beach comfort facility	Beach comfort facility	*New beach comfort facility
Food service	Food service	Food service	Food service
Municipal fishing pier (250 people)	Municipal fishing pier (250 people)	*Municipal fishing pier with cleaning stations (250 people)	*Municipal fishing pier with cleaning stations (250 people)

A	B	C	D
		*Bait and tackle sales and rental	*Bait and tackle sales and rental
Recreation space – includes lawn, beach, bleachers, bocce ball courts (5-6 acres)	Recreation space – includes lawn, beach, bleachers, bocce ball courts (6-8 acres)	Recreation space – includes plaza, lawn, beach, bleachers, bocce ball courts (5-7 acres)	Recreation space – includes plaza, lawn, beach, bleachers, bocce ball courts (5-7 acres)
Other open space (3 acres)	Other open space (3 acres)	Other open space (3 acres)	Other open space (3 acres)
Waterfront promenade	Waterfront promenade	Waterfront promenade	Waterfront promenade
			*Bike path
Parking (85 spaces/0.8 acre)	*Transportation juncture	*Transportation juncture	*Transportation juncture
Cable car turnaround (240 people)	Cable car turnaround (240 people)	Cable car turnaround (240 people)	Cable car turnaround (240 people)

*New facility or condition

** New adaptive use of historic structure

Capacity figures indicate number of people at one time

FORT MASON

A	B	C	D
Visitor center in Bldg. 201 (90 people)	**Visitor center (150 people)	**Visitor center/Bay Area history center (460 people)	**Visitor center (200 people)
		**Senior center (200 people)	
Historic residential district retained by Army (7.3 acres)	**Historic residential district – adaptive uses determined when buildings become available (7.3 acres/140 people)	**Historic residential district-restoration/exhibits/adaptive use considered (7.3 acres/1,100 people)	**Historic residential district – adaptive uses determined when buildings become available (7.3 acres/140 people)
*Wayside exhibits	*Wayside exhibits	*Wayside exhibits	
	**Environmental education center (250 people)	**Marine museum/environmental education center (500 people)	
		*Historic ships at piers	*Visiting ships (500 people)
**Art facilities by permit in piers and warehouses (200 people)	*Landscaped pier (500 people)	**Performing arts facilities/outdoor program space (3,300 people)	*Performing arts facilities/outdoor amphitheater (2,400 people)
		**Arts and crafts facilities (1,300 people)	**Arts and crafts facilities (1,300 people)
	**Community educational and cultural programs (500 people)		**Day camp/community educational and cultural programs (500 people)
			**Indoor recreation space (1,000 people)

A	B	C	D
**Hostel in warehouse (180 people)		**Hostel and group retreat (230 people)	**Hostel (330 people)
		**Food service – 2 (400 people)	**Food service (200 people)
			**Recreational equipment rental
Fishing piers (100 people)	*Fishing piers (170 people)	Fishing piers (100 people)	*Fishing piers with fish-cleaning stations (100 people)
*Lawn area (23 acres)	*Lawn area (27 acres)	*Lawn area (15-20 acres)	*Lawn area (10-15 acres)
Picnic area (2 acres)	*Picnic area (5 acres)	*Picnic area (3 acres)	*Picnic area (5 acres)
			*Plaza (5 acres)
*Other open space (25 acres)	*Other open space (25 acres)	*Other open space (25 acres)	*Other open space (25 acres)
Waterfront promenade (0.4 mile)	Waterfront promenade (0.4 mile)	Waterfront promenade (0.4 mile)	Waterfront promenade (0.4 mile)
*Bike path (0.4 mile)	*Bike path (0.4 mile)	*Bike path (0.4 mile)	*Bike path (0.4 mile)
*Parking lot (514 spaces/5 acres)	*Parking lot (350 spaces/3.5 acres)	*Parking structure (1,000 spaces/2-3 acres)	*Parking structure (1,000 spaces/2-3 acres)
		*Parking lot (350 spaces/3.5 acres)	*Parking lot (350 spaces/3.5 acres)
*Ferry landing (1,000 people)	*Ferry landing (920 people)	*Ferry landing (1,400 people)	*Ferry landing (1,400 people)

*New facility or condition

**New adaptive use of a historic structure

Capacity figures indicate number of people at one time

CRISSY FIELD

A	B	C	D
Environmental education center (15 people)	**Environmental education facility (25 people)	**Educational facilities (80 people)	**Educational facilities (80 people)
Wayside exhibits	Wayside exhibits	Wayside exhibits	Wayside exhibits
	*Interpretive area (5-10 acres)	**Aviation museum (320 people/1 acre)	
Beach (7 acres)	*Natural appearing shoreline – beach/dunes/ marsh (30-35 acres)	Beach (7 acres)	*Beach (5 acres)
		*Beach comfort facility	*Beach comfort facility
Picnic area (2 acres)		*Picnic area (3-5 acres)	*Picnic area (5 acres)
		*Lawn (10-15 acres)	*Lawn (5-10 acres)
Use of runway for game courts (1 acre)			*Hard-surfaced sports area (3 acres)
			*Swimming lagoon (5 acres)
			*Children's play area (0.25 acre)
Other open space (29 acres)		*Other open space (10 acres)	*Other open space (10 acres)
		*Food service (25 people)	*Food service (25 people)
			*Recreation equipment rental

A	B	C	D
*Waterfront promenade (1.25 miles/1.5 acres)	*Trail or boardwalk (2 miles/2 acres)	*Waterfront promenade/wind shelters, benches (1.25 miles/3 acres)	*Waterfront promenade (1.25 miles/3 acres)
			*Plaza along promenade
*Bike path (1.25 miles)	*Bike path (1.25 miles)	*Bike path (1.25 miles)	*Bike path (1.25 miles)
Parking lot (50 spaces/0.3 acre)	*Parking lot (150 spaces/2 acres)	*Parking lot (300 spaces/3 acres)	*Parking lot (300 spaces/3 acres)
*Pedestrian and equestrian connection with Presidio	*Pedestrian and equestrian connection with Presidio	*Pedestrian and equestrian connection with Presidio	*Pedestrian and equestrian connection with Presidio

*New facility or condition

**New adaptive use of a historic structure

Capacity figures indicate number of people at one time

SAN FRANCISCO HEADLANDS

	A	C	D
General	Informal recreation space (38 acres)	*Informal recreation space (41 acres)	*Informal recreation space (41 acres)
	Other open space – hillsides, cliffs, vegetated areas (195 acres)	Other open space (195 acres)	Other open space (195 acres)
	*Trails (3 miles)	*Trails (3-5 miles)	*Trails (3-5 miles)
	Parking (680 spaces/7 acres)	*Parking (865 spaces/9 acres)	*Parking (865 spaces/9 acres)
Baker Beach	*Wayside exhibits	*Wayside exhibits	*Wayside exhibits
		*Beach comfort facility	*Beach comfort facility
	Picnic area (5 acres)	Picnic area (5 acres)	Picnic area (5 acres)
			**Food service facility
Lands End	*Wayside exhibits	*Wayside exhibits	Wayside exhibits
		*Self-guiding trail (5 miles)	
Phelan Beach	Beach comfort facility		Beach comfort facility
West Fort Miley		**Interpretive facilities (200 people)	**Interpretive facilities (100 people)
		*Campfire circle/campground (200 people)	*Amphitheater (400 people)

	A	C	D
West Fort Miley (cont.)	*Wayside exhibits		*Wayside exhibits
	*Picnic area (3 acres)	*Picnic area (3 acres)	*Picnic area (3 acres)
East Fort Miley			*Structured recreation space (includes game courts and jogging areas) (3-5 acres)

*New facility or condition

**New adaptive use of a historic structure

Capacity figures indicate number of people at one time

CLIFF HOUSE

A	B	C	D
*Wayside exhibits at Cliff House, Sutro Baths, and Sutro Heights	*Wayside exhibits at Cliff House, Sutro Baths, and Sutro Heights	*Wayside exhibits at Sutro Heights	*Wayside exhibits at Cliff House, Sutro Baths, and Sutro Heights
Cliff House complex (770 people): – Food and beverage service – Gift sales – Amusements	Cliff House complex (770 people): – Food and beverage service – Gift sales – Amusements	*1890s Cliff House (1,500 people): – Food and beverage service – Overnight accommodations	**Cliff House complex (850 people): – Food and beverage service – Gift sales – Amusements – Information kiosk – Wind shelter, viewing area, cafe – Bicycle rental
Informal recreation space (15.5 acres): – Sutro Heights Park (10.5 acres) – Sutro Baths ruins (5 acres)	Informal recreation space (15.5 acres): – Sutro Heights Park (10.5 acres) *– Restored ocean shoreline (5 acres)	*Informal recreation space at Sutro Heights (10.5 acres)	*Informal recreation space (20-25 acres): – Sutro Heights Park (10.5 acres) – Lawn, picnic area, plaza, viewing station at Sutro Baths ruins (10-15 acres)
Other open space (14.5 acres)	Other open space (14.5 acres)	Other open space (14.5 acres)	*Other open space (5-10 acres)
Parking at Merrie Way (100 spaces/1.4 acres)	*Parking at Merrie Way (50 spaces/0.7 acre)	*Parking in Merrie Way/Sutro area (250 spaces)	Parking at Merrie Way (100 spaces/1.4 acres)

A	B	C	D
*Transportation juncture in Merrie Way area	*Transportation juncture in Merrie Way area	*Transportation juncture in Merrie Way area	*Transportation juncture in Merrie Way area
Parking at Sutro Heights (85 spaces/1.7 acres)	Parking at Sutro Heights (85 spaces/1.7 acres)	Parking at Sutro Heights (85 spaces/1.7 acres)	Parking at Sutro Heights (85 spaces/1.7 acres)
Parking outside park near Cliff House (146 spaces)			*Parking outside park near Cliff House (75 spaces)
Waterfront promenade (½ mile)	Waterfront promenade (½ mile)		*Improved waterfront promenade (½ mile)
		*Sutro Baths reconstruction (24,000 people)	
		*Sutro-era museum at Sutro Baths	
			*Pedestrian overpass from Cliff House to Sutro Heights

*New facility or condition

**New adaptive use of a historic structure

Capacity figures indicate number of people at one time

OCEAN BEACH

A	B	C	D
*Wayside exhibits throughout the area	*Wayside exhibits throughout the area	*Wayside exhibits throughout the area	
Informal recreation space including beach, dunes (150 acres)	Informal recreation space including beach, dunes (150 acres)	*Informal recreation space including beach, dunes (137 acres)	*Informal recreation space including beach, dunes, plaza space along promenade, landscape connection to Golden Gate Park (132 acres)
Other open space (180 acres)	Other open space (180 acres)	Other open space (180 acres)	Other open space (180 acres)
Waterfront promenade (1 mile)	Waterfront promenade (1 mile)	*Improved waterfront promenade (1 mile)	*Improved waterfront promenade (1 mile)
	**Interpretive programs		
		*Beach comfort facilities at north Ocean Beach	*Beach comfort facilities at north Ocean Beach
		*Group picnic area at Funston (3 acres)	*Group picnic area at Funston (3 acres)
		*Group campground at Funston (50 people)	*Group campground at Funston (50 people)
		**Overnight education facilities at Funston (100 people)	
		*Bicycle path (1 mile)	*Bicycle path (1 mile)

A	B	C	D
		*Pedestrian and bicycle overpasses to Golden Gate Park	
		*Information kiosk near zoo	*Information kiosk near zoo
Parking (265 spaces/2.6 acres)	Parking (265 spaces/2.6 acres)	*Parking (370 spaces/3.7 acres)	*Parking (520 spaces/5.2 acres), includes equestrian trailer parking

*New facility or condition

**New adaptive use of a historic structure

Capacity figures indicate number of people at one time

MARIN HEADLANDS

	A	B	C	D
General	Hiking trails (33 miles)	*Hiking trails (37 miles)	*Hiking trails (37 miles)	*Hiking trails (37 miles)
	Riding trails (17 miles)	Riding trails (17 miles)	Riding trails (17 miles)	Riding trails (17 miles)
	Parking (1,480 total spaces)	Parking (1,480 total spaces)	Parking (1,480 total spaces)	Parking (1,480 total spaces)
	Campground (1)	Campgrounds (3)	Campgrounds (3)	Campgrounds (5)
			Picnic areas (2)	Picnic areas (6)
Conzelman Road	Hill 129 viewing area with *wayside exhibits	Hill 129 viewing area with *wayside exhibits	Hill 129 viewing area with *wayside exhibits	Hill 129 viewing area with *wayside exhibits
			*Food service (25 people)	*Food service (25 people)
				*Self-guiding trail along Headlands Ridge
Kirby Cove	Walk-in group campground (3 sites/120 people)	*Hike-in campground (15 sites/60 people)	Walk-in group campground (3 sites/120 people)	Walk-in group campground (3 sites/120 people)
Point Bonita			*Wayside exhibit at lighthouse	*Walk-in campground (20 sites/80 people)
East Fort Baker		**Information center (100 people)	**Visitor center (200 people)	**Information center (150-200 people)
			**Educational conference center (300 people)	
				**Hostel (30 people)

	A	B	C	D
East Fort Baker (cont.)	Lawn area (5 acres)	Lawn area (5 acres)	*Lawn and picnic area/outdoor program space (5 acres)	*Lawn and picnic area/outdoor program space (5 acres)
	Fishing pier (40 people)	*Fishing pier with rest rooms, cleaning stations, etc. (40 people)	*Fishing pier with rest rooms, cleaning stations, etc. (40 people)	*Fishing pier with rest rooms, cleaning stations, etc. (40 people)
			*Bicycle rental	*Sports and fishing equipment rental
				Food service (25 people)
	Private boat mooring slips (65 boats)	*Public boat mooring slips (50-75 boats)	*Public boat mooring slips (50-75 boats)	*Public boat mooring and berthing slips (50-75 boats)
	*Ferry landing (600 people)	*Ferry landing (600 people)	*Ferry landing (600 people)	*Ferry landing (600 people)
Rodeo Valley	**Environmental education facility (50 people)	**Environmental education and research facilities (200 people)	**Environmental education facilities (100 people)	
	Lawn area at Fort Barry parade ground (5 acres)	*Walk-in group camp at Fort Barry parade ground (2 sites/80 people)	**Artists-in-residence program at Fort Barry parade ground (7 structures, 5 acres)	**Group retreat at Fort Barry parade ground (75 people) and lawn and picnic area (5 acres)
		*Road terminus and parking at abandoned housing area across from stables (650 cars)	*Picnic area at abandoned housing area across from stables (3 acres)	*Picnic area at abandoned housing area across from stables (3 acres)
	Private stables (25 horses)	*Public boarding and rental stables (50 horses)	*Public boarding and rental stables (50 horses)	
			*Riding courses at old rifle range site	*Remove private stables

	A	B	C	D
Rodeo Valley (cont.)				*Auto campground at old Capehart housing site (60 sites/240 people)
Rodeo Lagoon/Lake/ Beach	Interpretive facility (15 people)	Interpretive facility (15 people)	Interpretive facility (15 people)	Interpretive facility (15 people)
				*Beach comfort facility
			**Hostel (30 people)	**Hostel (30 people)
			**Food service (25 people)	**Food service at beach (25 people)
				**Environmental education facilities (100-200 people)
	Access road		Access road	Access road
	Parking area		Parking area	*Lawn and picnic area at old parking site (8 acres)
				*Parking area at abandoned building site upslope from lagoon
		*Self-guiding trail	*Self-guiding trail	*Self-guiding trail
			*Boardwalk at Rodeo Lake	
				*Fish stocking in lake
				*Equipment rental

	A	B	C	D
Rodeo Lagoon/Lake/ Beach (cont.)			*Wayside exhibit at Bird Island overlook	*Wayside exhibit at Bird Island overlook
Tennessee Valley	Private stables (80-100 horses)		*Children's farm at old stables site (50-75 people)	*New horse boarding and rental stables (80 horses)
				*Fish stocking in stock ponds
			*Hike-in campground (15 sites/60 people)	*Hike-in campground (15 sites/60 people)
Oakwood Valley				*Picnic area (3 acres)
Gerbode Preserve		*Primitive camping zone (10 sites/40 people)	*Hike-in campground (15 sites/60 people)	*Hike-in campground (15 sites/60 people)
		*Self-guiding trail		*Self-guiding trail
				*picnic area (3 acres)
Hill 88			*Wayside exhibit	

*New facility or condition

**New adaptive use of historic structure

Capacity figures indicate number of people at one time

MOUNT TAMALPAIS

	A	B	C	D
General	Hiking trails (61 miles)	Hiking trails (less than 61 miles)	Hiking trails (61 miles)	Hiking trails (61 miles)
	Riding trails (17 miles)	Riding trails (17 miles)	Riding trails (17 miles)	Riding trails (17 miles)
Bolinas Ridge Area	Environmental education center at Audubon Canyon Ranch (50-60 people)	Environmental education center at Audubon Canyon Ranch (50-60 people)	Environmental education center at Audubon Canyon Ranch (50-60 people)	Environmental education center at Audubon Canyon Ranch (50-60 people)
			*Wayside exhibit at McKinnan Gulch at Route 1 with boardwalk and overlook	
			*Wayside exhibits at pullouts along Shoreline Highway	
		*Hike-in campground at McKinnan Gulch Mine (15 sites)	*Hike-in campground at McKinnan Gulch Mine (15 sites)	*Hike-in campground at McKinnan Gulch Mine (15 sites)
			*Hike-in campground at Morse's Gulch (15 sites)	*Walk-in campground at Morse's Gulch (15 sites)
			*Hostel at McKinnan Gulch (30 people)	
			*Parking for picnicking and viewing along Ridgecrest Boulevard	*Parking for picnicking and viewing along Ridgecrest Boulevard
Mount Tamalpais Area	Walk-in campground at Pan Toll (18 sites)		*Picnic area at old campground site (2-3 acres)	*Picnic area at old campground site (2-3 acres)

	A	B	C	D
Mount Tamalpais Area (cont.)	Alice Eastwood group campground (40 people)			Alice Eastwood group campground (40 people)
	Bootjack picnic area (3 acres)		Bootjack picnic area (3 acres)	Bootjack picnic area (3 acres)
	Mountain Theater for outdoor performances (5,000 people)	Mountain Theater for outdoor performances (5,000 people)	Mountain Theater for outdoor performances (5,000 people)	Mountain Theater for outdoor performances (5,000 people)
			*Wayside exhibits at East Peak	
	Parking (435 spaces)	Parking (435 spaces)	Parking (435 spaces)	Parking (435 spaces)
			*Parking for picnicking and viewing along Panoramic Highway	*Parking for picnicking and viewing along Panoramic Highway
	Ranger office at Pan Toll			
	Maintenance substation at Pan Toll			
Stinson Beach	Lawn and picnic area (5 acres)	Lawn and picnic area (5 acres)	Lawn and picnic area (5 acres)	Lawn and picnic area (5 acres)
	Beach comfort facility	Beach comfort facility	Beach comfort facility	Beach comfort facility
	Snack food service	Snack food service	Snack food service	Snack food service
				*Beach equipment rentals
	*Southern entrance to parking area	*Southern entrance to parking area	*Southern entrance to parking area	*Southern entrance to parking area

OLEMA VALLEY

A	B	C	D
Hiking trails (30 miles)	Hiking trails (30 miles)	Hiking trails (30 miles)	Hiking trails (30 miles)
Riding trails (20 miles)	*Riding trails (25 miles)	*Riding trails (25 miles)	*Riding trails (25 miles)
*Parking at Five Brooks (75-100 spaces/1 acre)	*Parking at Five Brooks (75-100 spaces, to be expanded when needed)	*Parking at Five Brooks (75-100 spaces, to be expanded when needed)	*Parking at Five Brooks (75-100 spaces, to be expanded when needed)
Horse rental facility at Five Brooks (30 horses)	Horse rental facility at Five Brooks (30 horses)	Horse rental facility at Five Brooks (30 horses)	*Horse rental and boarding facility at Five Brooks (30 horses)
	**Hostel at north end of valley (30 people)		
	**Hostel at Five Brooks (30 people)	**Hostel at Five Brooks (30 people)	**Hostel at old Lupton Ranch (30 people)
		**Hostel at Rancho Bolinas (30 people)	**Hostel at Rancho Bolinas (30 people)
			**Hostel at Truttman Ranch (30 people)
	*Two walk-in campgrounds behind Truttman Ranch (20 sites each)	*Two walk-in campgrounds behind Truttman Ranch (20 sites each)	*Two walk-in campgrounds behind Truttman Ranch (20 sites each)
		*Walk-in campground at Five Brooks (20 sites)	*Walk-in campground at Five Brooks (20 sites)
		*Hike-in camp near Hagmaier Ranch (15 sites)	*Hike-in camp near Hagmaier Ranch (15 sites)

A	B	C	D
	*Hike-in camp on Bolinas Ridge (15 sites)	*Hike-in camp on Bolinas Ridge (15 sites)	*Hike-in camp on Bolinas Ridge (15 sites)
			*Tent cabins south of Olema Cemetery (20 units)
			*Fish stocking in ponds near Hagmaier Ranch
			**Food service facility at Five Brooks (25-50 people)
	*Environmental education center at Rancho Bolinas (30-50 people)		
	*Information kiosk at Five Brooks	*Information kiosk at Five Brooks	*Information kiosk at Five Brooks
		*Information kiosk at Rancho Bolinas	*Information kiosk at Rancho Bolinas
		**Interpretive facility at restored historic structure (80 people)	
		*Wayside exhibits at roadside pullouts	

*New facility or condition

**New adaptive use of a historic structure

Capacity figures indicate number of people at one time.

POINT REYES

	A	B	C	D
General	Hiking trails (100 miles)	Hiking trails (100 miles)	Hiking trails (100 miles)	Hiking trails (100 miles)
	Riding trails (46 miles)	Riding trails (46 miles)	Riding trails (46 miles)	Riding trails (46 miles)
	Parking (1,594 spaces)	Parking (1,594 spaces)	Parking (1,594 spaces)	Parking (1,594 spaces)
	Hostel (1-40 people)	Hostels (2-30 people each)	Hostels (2-30 people each)	Hostels (3-30 people each)
	Hike-in campgrounds (3-15 sites each)		*Hike-in campgrounds (4-15 sites each)	*Hike-in campgrounds (10-15 sites each)
	Group campground (1-120 people)	*Group campground (1-80 people)	*Group campgrounds (2-40 people each)	*Group campgrounds (2-40 people each)
		*Primitive camping zones (5-150 max. sites)	*Primitive camping zones (2-55 max. sites)	
North Point Reyes	Snack food service at Drakes Beach (20 people)	Snack food service at Drakes Beach (20 people)	Snack food service at Drakes Beach (20 people)	Snack food service at Drakes Beach (20 people)
	Food service at Johnson's Oyster Farm	Food service at Johnson's Oyster Farm	Food service at Johnson's Oyster Farm	Food service at Johnson's Oyster Farm
			*Food service at the fish docks (25 people)	*Food service at the fish docks (25 people)
	Beach comfort facility at Drakes Beach	Beach comfort facility at Drakes Beach	Beach comfort facility at Drakes Beach	Beach comfort facility at Drakes Beach
	Beach comfort facility at North Beach	Beach comfort facility at North Beach	Beach comfort facility at North Beach	Beach comfort facility at North Beach

	A	B	C	D
North Point Reyes (cont.)	Beach comfort facility at South Beach	Beach comfort facility at South Beach	Beach comfort facility at South Beach	Beach comfort facility at South Beach
				*Beach comfort facility at Limantour
	Information center at Drakes Beach (10 people)	Information center at Drakes Beach (10 people)	Information center at Drakes Beach (10 people)	Information center at Drakes Beach (10 people)
		*Information kiosk at Ottinger Hill	*Information kiosk at Ottinger Hill	*Information kiosk at Ottinger Hill
			**Interpretive facility at the lighthouse (10-20 people)	**Interpretive facility at the lighthouse (10-20 people)
			**Interpretive facility at the lifesaving station (50 people)	
		**Living history ranch at Upper Pierce Point Ranch (100 people)		
		*Wayside exhibits at Limantour	*Wayside exhibits at Limantour	*Wayside exhibits at Limantour
		*Wayside exhibits at Tomales Point	*Wayside exhibits at Tomales Point	*Wayside exhibits at Tomales Point
		*Wayside exhibits at the lighthouse		

A	B	C	D
North Point Reyes (cont.)	*Wayside exhibits at the lifesaving station	*Wayside exhibits at Upper Pierce Point Ranch	
		*Wayside exhibits at North Beach	*Wayside exhibits at North Beach
		*Wayside exhibits at Mount Vision	
		*Wayside exhibit at Point Reyes Headlands	*Wayside exhibit at Point Reyes Headlands
	**Hostel at undetermined location (30 people)	**Hostel at Upper Pierce Point Ranch (30 people)	**Hostel at Upper Pierce Point Ranch (30 people)
			**Hostel at lifesaving station (30 people)
			*Hike-in campground at Lairds Landing (15 sites)
			*Hike-in campground at Home Ranch Creek (15 sites)
			*Hike-in campground at Drakes Estero (15 sites)
			*Boat moorings (day-use) at fish docks (20 boats)

	A	B	C	D
				*Canoe launching facility at Drakes Estero
		*Primitive camping zone – Tomales Bay (30 sites)	*Primitive camping zone – Tomales Bay (30 sites)	
		*Primitive camping zone – Mount Vision (25 sites)	*Primitive camping zone – Mount Vision (25 sites)	
South Point Reyes	Blacksmith shop at Bear Valley	Blacksmith shop at Bear Valley	Blacksmith shop at Bear Valley	Blacksmith shop at Bear Valley
	Environmental education camp (90 people)	Environmental education camp (90 people)	Environmental education camp (90 people)	Environmental education camp (90 people)
	Horse farm at Bear Valley	Horse farm at Bear Valley	Horse farm at Bear Valley	Horse farm at Bear Valley
	Coast Miwok village at Bear Valley	Coast Miwok village at Bear Valley	Coast Miwok village at Bear Valley	Coast Miwok Village at Bear Valley
	Information center at Bear Valley (15 people)	Information center at Bear Valley (15 people)	*Visitor center at Bear Valley (200 people)	Information center at Bear Valley (15 people)
	Self-guiding trails at Bear Valley (2 miles)	Self-guiding trails at Bear Valley (2 miles)	*Self-guiding trails and wayside exhibits at Bear Valley (5 miles)	*Self-guiding trails at Bear Valley (3 miles)
		*Wayside exhibits at Double Point	*Wayside exhibits at Double Point	*Wayside exhibits at Double Point

	A	B	C	D
South Point Reyes (cont.)	Picnic area at Bear Valley (3 acres)	Picnic area at Bear Valley (3 acres)	Picnic area at Bear Valley (3 acres)	*Picnic area at Bear Valley (5 acres)
	Hostel at Laguna Ranch (40 people)	Hostel at Laguna Ranch (30 people)	Hostel at Laguna Ranch (30 people)	Hostel at Laguna Ranch (30 people)
	Group campground at Glen Camp (120 people)	Group campground at Glen Camp (80 people)	*Hike-in campground at Glen Camp (15 sites)	*Hike-in campground at Glen Camp (15 sites)
	Hike-in campground at Coast Camp (15 sites)		*Group campground at Coast Camp (40 people)	*Group campground at Coast Camp (40 people)
	Hike-in campground at Sky Camp (15 sites)		Hike-in campground at Sky Camp (15 sites)	Hike-in campground at Sky Camp (15 sites)
	Hike-in campground at Wildcat Camp (15 sites)		*Group campground at Wildcat Camp (40 people)	*Group campground at Wildcat Camp (40 people)
			*Hike-in campground at Fir-Top (15 sites)	*Hike-in campground at Fir-Top (15 sites)
				*Hike-in campground at Kelham Beach (15 sites)
				*Hike-in campground at Mud Lake (15 sites)
				*Hike-in campground at Lake Ranch (15 sites)

A	B	C	D
South Point Reyes (cont.)			*Food service (camper store) at Bear Valley *Backpacking equipment and bicycle rental at Bear Valley
	*Primitive camping zone – Coast Trail (25 sites) *Primitive camping zone – Sky Trail (35 sites) *Primitive camping zone – Lake Ranch (35 sites)		

*New facility or condition

** New adaptive use of a historic structure

Capacity figures indicate number of people at one time

APPENDIX C: APPLICABLE FEDERAL LAWS AFFECTING PLANNING

The general management plan must legally comply with a number of acts and executive orders. The following laws are applicable to planning at GGNRA/Point Reyes.

NATIONAL HISTORIC PRESERVATION ACT OF 1966 AND EXECUTIVE ORDER 11593

The Advisory Council on Historic Preservation has the opportunity to comment on all actions undertaken by federal agencies that might affect a property on the National Register of Historic Places. Agencies are also required to determine which historic resources are eligible for nomination to the national register so that the council can comment on undertakings that might affect them as well. Regulations for compliance with these laws have been adhered to.

PUBLIC LAW 95-341--THE AMERICAN INDIAN RELIGIOUS FREEDOM ACT OF 1979

This law requires NPS to identify any residual rights or trust obligations to Native American groups with traditional ties to the area. Future study will determine any uses of GGNRA and Point Reyes National Seashore by contemporary Native Americans.

ENDANGERED SPECIES ACT OF 1973

The National Park Service is required to consult with the U.S. Fish and Wildlife Service on projects that have the potential to affect endangered or threatened species. No action can be undertaken that would have an adverse impact on a listed species. The environmental analysis indicates potential conflicts between plan actions and listed species and their habitats. The National Park Service will initiate formal consultation with the U.S. Fish and Wildlife Service regional office in Portland concerning potential effects of the plan on threatened and endangered species and informal consultation with the Sacramento Area Office on listed or candidate species that could be affected by the plan.

EXECUTIVE ORDER 11752--PREVENTION, CONTROL, AND ABATEMENT OF ENVIRONMENTAL POLLUTION AT FEDERAL FACILITIES

The National Park Service will comply with federal, state, interstate, and local standards and limitations relating to the quality of air, water, and land resources.

CONCESSIONS POLICY ACT OF 1965

The act establishes a contractual framework for encouraging and enabling private persons and corporations to provide and operate commercial facilities and services for the accommodation of visitors. Such development must be limited to that which is necessary and appropriate for public use and enjoyment of the national park in which it is located and consistent to the highest practicable degree with the preservation and conservation of the area.

SAFE DRINKING WATER ACT

The water quality of all drinking water sources must meet standards that have been established by the Environmental Protection Agency in response to this act. Water quality of new water supply systems proposed in the plan will meet the established standards.

COASTAL ZONE MANAGEMENT ACT OF 1972

Federal agencies conducting projects or activities affecting the coastal zone must carry them out in a manner consistent with the state's coastal zone management program. The California Coastal Zone Conservation Plan and the management policies found in the California Coastal Act of 1976 have been reviewed. This plan is consistent to the maximum extent practicable with California coastal zone management programs.

EXECUTIVE ORDER 11988--FLOODPLAIN MANAGEMENT

The National Park Service must act to reduce the risk of flood loss; minimize the impact of floods on human safety, health, and welfare; and restore and preserve natural values of floodplains. While new structures will not be constructed in any area subject to flooding, vsitor uses are planned for several existing historic structures subject to 100-year tsunami run-up. Use of these existing structures, even in the event of a tsunami, is not considered to be hazardous to visitors, will not affect structural integrity of the buildings, and will not decrease natural values. However, the decision to use these structures will be subject to review by the

following agencies: Environmental Protection Agency, Federal Insurance Administration, U.S. Fish and Wildlife Service, U.S. Geological Survey, Bureau of Reclamation, U.S. Army Corps of Engineers, and U.S. Soil Conservation Service.

CLEAN AIR ACT OF 1963 AND AMENDMENTS

The 1977 amendments to the Clean Air Act classified the entire country into three classes based upon the amount of allowable air quality deterioration that can take place. Under this classification, Point Reyes National Seashore was designated Class I, where almost no deterioration of air quality is allowable. Other areas in GGNRA are Class II, where allowable increment increases of pollutants are slightly larger. To assure that plan proposals will not detrimentally affect air quality, air quality analyses were completed and are reported in the environmental analysis.

Public Law 92-589
92nd Congress, H. R. 16444
October 27, 1972

An Act

To establish the Golden Gate National Recreation Area in the State of California, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

Golden Gate National Recreation Area, Calif.

ESTABLISHMENT

SECTION 1. In order to preserve for public use and enjoyment certain areas of Marin and San Francisco Counties, California, possessing outstanding natural, historic, scenic, and recreational values, and in order to provide for the maintenance of needed recreational open space necessary to urban environment and planning, the Golden Gate National Recreation Area (hereinafter referred to as the "recreation area") is hereby established. In the management of the recreation area, the Secretary of the Interior (hereinafter referred to as the "Secretary") shall utilize the resources in a manner which will provide for recreation and educational opportunities consistent with sound principles of land use planning and management. In carrying out the provisions of this Act, the Secretary shall preserve the recreation area, as far as possible, in its natural setting, and protect it from development and uses which would destroy the scenic beauty and natural character of the area.

COMPOSITION AND BOUNDARIES

SEC. 2. (a) The recreation area shall comprise the lands, waters, and submerged lands generally depicted on the map entitled "Boundary Map, Golden Gate National Recreation Area", numbered NRA-GGI-80,003A, sheets 1 through 3, and dated July, 1972.

(b) The map referred to in this section shall be on file and available for public inspection in the Offices of the National Park Service, Department of the Interior, Washington, District of Columbia. After advising the Committees on Interior and Insular Affairs of the United States House of Representatives and the United States Senate (hereinafter referred to as the "committees") in writing, the Secretary may make minor revisions of the boundaries of the recreation area when necessary by publication of a revised drawing or other boundary description in the Federal Register.

Boundary revisions, notification of congressional committees. Publication in Federal Register.

ACQUISITION POLICY

SEC. 3. (a) Within the boundaries of the recreation area, the Secretary may acquire lands, improvements, waters, or interests therein, by donation, purchase, exchange or transfer. Any lands, or interests therein, owned by the State of California or any political subdivision thereof, may be acquired only by donation. When any tract of land is only partly within such boundaries, the Secretary may acquire all or any portion of the land outside of such boundaries in order to minimize the payment of severance costs. Land so acquired outside of the boundaries may be exchanged by the Secretary for non-Federal lands within the boundaries. Any portion of land acquired outside the boundaries and not utilized for exchange shall be reported to the General Services Administration for disposal under the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended: *Provided*, That no disposal shall be for less than fair market value. Except as hereinafter provided, Federal property within

Ante, p. 503.
40 USC 471 note.

the boundaries of the recreation area is hereby transferred without consideration to the administrative jurisdiction of the Secretary for the purposes of this Act, subject to the continuation of such existing uses as may be agreed upon between the Secretary and the head of the agency formerly having jurisdiction over the property. Notwithstanding any other provision of law, the Secretary may develop and administer for the purposes of this Act structures or other improvements and facilities on lands for which he receives a permit of use and occupancy from the Secretary of the Army.

Facilities and improvements.

(b) Fort Cronkhite, Fort Barry, and the westerly one-half of Fort Baker, in Marin County, California, as depicted on the map entitled "Golden Gate Military Properties" numbered NRAGG-20,002 and dated January 1972, which shall be on file and available for public inspection in the offices of the National Park Service, are hereby transferred to the jurisdiction of the Secretary for purposes of this Act, subject to continued use and occupancy by the Secretary of the Army of those lands needed for existing air defense missions, reserve activities and family housing, until he determines that such requirements no longer exist. The Coast Guard Radio Receiver Station, shall remain under the jurisdiction of the Secretary of the Department in which the Coast Guard is operating. When this station is determined to be excess to the needs of the Coast Guard, it shall be transferred to the jurisdiction of the Secretary for purposes of this Act.

Forts Cronkhite, Barry, and Baker, transfer of jurisdiction.

(c) The easterly one-half of Fort Baker in Marin County, California, shall remain under the jurisdiction of the Department of the Army. When this property is determined by the Department of Defense to be excess to its needs, it shall be transferred to the jurisdiction of the Secretary for purposes of this Act. The Secretary of the Army shall grant to the Secretary reasonable public access through such property to Horseshoe Bay, together with the right to construct and maintain such public service facilities as are necessary for the purposes of this Act. The precise facilities and location thereof shall be determined between the Secretary and the Secretary of the Army.

Horseshoe Bay, access via Fort Baker.

(d) Upon enactment, the Secretary of the Army shall grant to the Secretary the irrevocable use and occupancy of one hundred acres of the Baker Beach area of the Presidio of San Francisco, as depicted on the map referred to in subsection (b).

Baker Beach, right of occupancy.

(e) The Secretary of the Army shall grant to the Secretary within a reasonable time, the irrevocable use and occupancy of forty-five acres of the Crissy Army Airfield of the Presidio, as depicted on the map referred to in subsection (b).

Crissy Army Airfield, right of occupancy.

(f) When all or any substantial portion of the remainder of the Presidio is determined by the Department of Defense to be excess to its needs, such lands shall be transferred to the jurisdiction of the Secretary for purposes of this Act. The Secretary shall grant a permit for continued use and occupancy for that portion of said Fort Point Coast Guard Station necessary for activities of the Coast Guard.

Fort Point Coast Guard Station, continued-use permit.

(g) Point Bonita, Point Diablo, and Lime Point shall remain under the jurisdiction of the Secretary of the Department in which the Coast Guard is operating. When this property is determined to be excess to the needs of the Coast Guard, it shall be transferred to the jurisdiction of the Secretary for purposes of this Act. The Coast Guard may continue to maintain and operate existing navigational aids: *Provided*, That access to such navigational aids and the installation of necessary new navigational aids within the recreation area shall be undertaken in accordance with plans which are mutually acceptable to the Secretary and the Secretary of the Department in which the Coast Guard is operating and which are consistent with both the purposes of this Act and the purpose of existing

Point Bonita, Point Diablo, and Lime Point, transfer of jurisdiction.

Navigation aids, access.

statutes dealing with establishment, maintenance, and operation of navigational aids.

Fort Miley, transfer of jurisdiction.

(h) That portion of Fort Miley comprising approximately one and seven-tenths acres of land presently used and required by the Secretary of the Navy for its inshore, underseas warfare installations shall remain under the administrative jurisdiction of the Department of the Navy until such time as all or any portion thereof is determined by the Department of Defense to be excess to its needs, at which time such excess portion shall be transferred to the administrative jurisdiction of the Secretary for purposes of this Act.

New construction, limitation.

(i) New construction and development within the recreation area on property remaining under the administrative jurisdiction of the Department of the Army and not subject to the provisions of subsection (d) or (e) hereof shall be limited to that which is required to accommodate facilities being relocated from property being transferred under this Act to the administrative jurisdiction of the Secretary or which is directly related to the essential missions of the Sixth United States Army: *Provided, however*, That any construction on presently undeveloped open space may be undertaken only after prior consultation with the Secretary. The foregoing limitation on construction and development shall not apply to expansion of those facilities known as Letterman General Hospital or the Western Medical Institute of Research.

Exceptions.

Property owners, retention rights.

(j) The owner of improved property on the date of its acquisition by the Secretary under this Act may, as a condition of such acquisition, retain for himself and his heirs and assigns a right of use and occupancy of the improved property for noncommercial residential purposes for a definite term of not more than twenty-five years, or, in lieu thereof, for a term ending at the death of the owner or the death of his spouse, whichever is later. The owner shall elect the term to be reserved. Unless the property is wholly or partially donated to the United States, the Secretary shall pay to the owner the fair market value of the property on the date of acquisition minus the fair market value on that date of the right retained by the owner. A right retained pursuant to this section shall be subject to termination by the Secretary upon his determination that it is being exercised in a manner inconsistent with the purpose of this Act, and it shall terminate by operation of law upon the Secretary's notifying the holder of the right of such determination and tendering to him an amount equal to the fair market value of that portion of the right which remains unexpired.

"Improved property."

(k) The term "improved property", as used in subsection (j), means a detached, noncommercial residential dwelling, the construction of which was begun before June 1, 1971, together with so much of the land on which the dwelling is situated, the said land being in the same ownership as the dwelling, as the Secretary shall designate to be reasonably necessary for the enjoyment of the dwelling for the sole purpose of noncommercial residential use, together with any structures accessory to the dwelling which are situated on the land so designated.

(l) Whenever an owner of property elects to retain a right of use and occupancy as provided for in the Act, such owner shall be deemed to have waived any benefits or rights accruing under sections 203, 204, 205, and 206 of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (84 Stat. 1894), and for the purposes of those sections such owner shall not be considered a displaced person as defined in section 101(6) of that Act.

42 USC 4623-4626.

42 USC 4601.

Contract authority.

(m) Notwithstanding any other provision of law, the Secretary shall have the same authority with respect to contracts for the acquisition of land and interests in land for the purposes of this Act as was

given the Secretary of the Treasury for other land acquisitions by section 34 of the Act of May 30, 1908, relating to purchase of sites for public buildings (35 Stat. 545), and the Secretary and the owner of land to be acquired under this Act may agree that the purchase price will be paid in periodic installments over a period that does not exceed ten years, with interest on the unpaid balance thereof at a rate which is not in excess of the current average market yield on outstanding marketable obligations of the United States with remaining periods to maturity comparable to the average maturities on the installments. Judgments against the United States for amounts in excess of the deposit in court made in condemnation actions shall be subject to the provisions of the Act of July 27, 1956 (70 Stat. 624) and sections 2414 and 2517 of title 28, United States Code.

40 USC 261. Installment payments; interest rate.

70 Stat. 694; 84 Stat. 782. 31 USC 724a. 75 Stat. 415; 62 Stat. 979.

ADMINISTRATION

SEC. 4. (a) The Secretary shall administer the lands, waters and interests therein acquired for the recreation area in accordance with the provisions of the Act of August 25, 1916 (39 Stat. 535; 16 U.S.C. 1, 2–4), as amended and supplemented, and the Secretary may utilize such statutory authority available to him for the conservation and management of wildlife and natural resources as he deems appropriate to carry out the purposes of this Act. Notwithstanding their inclusion within the boundaries of the recreation area, the Muir Woods National Monument and Fort Point National Historic Site shall continue to be administered as distinct and identifiable units of the national park system in accordance with the laws applicable to such monument and historic site.

Police and fire protection, cooperative agreements.

(b) The Secretary may enter into cooperative agreements with any Federal agency, the State of California, or any political subdivision thereof, for the rendering, on a reimbursable basis, of rescue, firefighting, and law enforcement and fire preventive assistance.

Water resource developments.

(c) The authority of the Army to undertake or contribute to water resource developments, including shore erosion control, beach protection, and navigation improvements on land and/or waters within the recreation area shall be exercised in accordance with plans which are mutually acceptable to the Secretary and the Secretary of the Army and which are consistent with both the purpose of this Act and the purpose of existing statutes dealing with water and related resource development.

Transportation system, study.

(d) The Secretary, in cooperation with the State of California and affected political subdivisions thereof, local and regional transit agencies, and the Secretaries of Transportation and of the Army, shall make a study for a coordinated public and private transportation system to and within the recreation area and other units of the national park system in Marin and San Francisco Counties.

ADVISORY COMMISSION

Establishment; membership.

SEC. 5. (a) There is hereby established the Golden Gate National Recreation Area Advisory Commission (hereinafter referred to as the "Commission").

(b) The Commission shall be composed of fifteen members appointed by the Secretary for terms of three years each.

(c) Any vacancy in the Commission shall be filled in the same manner in which the original appointment was made.

(d) Members of the Commission shall serve without compensation, as such, but the Secretary may pay, upon vouchers signed by the Chairman, the expenses reasonably incurred by the Commission and its members in carrying out their responsibilities under this Act.

(e) The Secretary, or his designee, shall from time to time, but at least annually, meet and consult with the Commission on general policies and specific matters related to planning, administration and development affecting the recreation area and other units of the national park system in Marin and San Francisco Counties.

(f) The Commission shall act and advise by affirmative vote of a majority of the members thereof.

(g) The Commission shall cease to exist ten years after the enactment of this Act. Termination date.

APPROPRIATION LIMITATION

SEC. 6. There are hereby authorized to be appropriated such sums as may be necessary to carry out the provisions of this Act, but not more than $61,610,000 shall be appropriated for the acquisition of lands and interests in lands. There are authorized to be appropriated not more than $58,000,000 (May 1971 prices) for the development of the recreation area, plus or minus such amounts, if any, as may be justified by reason of ordinary fluctuations in construction costs as indicated by engineering cost indices applicable to the type of construction involved herein.

Approved October 27, 1972.

LEGISLATIVE HISTORY:

HOUSE REPORT No. 92-1391 (Comm. on Interior and Insular Affairs).
SENATE REPORT No. 92-1271 accompanying S. 3174 (Comm. on Interior and Insular Affairs).
CONGRESSIONAL RECORD, Vol. 118 (1972):
Oct. 11, considered and passed House.
Oct. 12, considered and passed Senate, in lieu of S. 3174.
WEEKLY COMPILATION OF PRESIDENTIAL DOCUMENTS, Vol. 8, No. 44:
Oct. 28, Presidential statement.

GPO 83-139

of 1978, the Secretary of the Interior is authorized to acquire for purposes of the recreation area established under this Act all lands and interests therein within the exterior boundaries of the area depicted on the drawing referred to in this subsection (including any lands within such exterior boundaries designated for acquisition by the Secretary of the Army in connection with the project referred to in this subsection). In exercising such authority, the Secretary of the Interior may permit the retention of rights of use and occupancy in the same manner as provided in the case of acquisitions by the Secretary of the Army under subsection (d). On the date of enactment of the National Parks and Recreation Act of 1978, the acquisition authorities of any other Federal agency contained in this subsection shall terminate and the head of any other Federal agency shall transfer to the Secretary of the Interior jurisdiction over all lands and interests therein acquired by said agency under the authority of this Act, or any other authority of law which lands are within the exterior boundaries of the area depicted on the drawing referred to in this subsection. On the date of enactment of the National Parks and Recreation Act of 1978, all unexpended balances available to any other Federal agency for acquisition of land within the exterior boundaries referred to in the preceding sentence shall be transferred to the Secretary of the Interior to be used for such purposes. In carrying out his acquisition authority under this section the Secretary shall give priority to the following:

Use and occupancy rights, retention.

Authority, termination and transfer.

Funds, transfer.

Acquisition priorities.

"(1) completion of acquisition of lands for which condemnation proceedings have been started pursuant to the authorization of the project referred to in this subsection;

"(2) acquisition of lands of beneficial owners, not being a corporation, who in the judgment of the Secretary would suffer hardship if acquisition of their lands were delayed;

"(3) acquisition of lands on which, in the judgment of the Secretary, there is an imminent danger of development that would be incompatible with the purposes of the recreation area;

"(4) acquisition of lands of beneficial owners, not being a corportion, who are willing to sell their lands provided they are able to continue to use it for noncommercial residential purposes for a limited period of time which will not, in the judgment of the Secretary, unduly interfere with the development of public use facilities for such national recreation area, pursuant to the authorization for such area;

"(5) acquisition of scenic easements when, in the judgment of the Secretary, such easements are sufficient to carry out the purposes for which such national recreation area was authorized; and

"(6) acquisition of lands necessary to preserve the integrity of the recreation area.".

GOLDEN GATE NATIONAL RECREATION AREA

Composition and boundaries. 16 USC 460bb-1.

SEC. 317. (a) Subsection 2(a) of the Act of October 27, 1972 (86 Stat. 1299), as amended (16 U.S.C. 459), is further amended to read as follows: "(a) The recreation area shall comprise the lands, waters, and submerged lands generally depicted on the map entitled: 'Revised Boundary Map, Golden Gate National Recreation Area', numbered NRA-GG-80,003-K and dated October 1978. The authority of the Secretary to acquire lands in the tract known as San Francisco Assessor's Block number 1592 shall be limited to an area of not more

than one and nine-tenths acres. Notwithstanding any other provision of this Act, the Secretary shall not acquire the Marin County Assessor's parcels numbered 199-181-01, 199-181-06, 199-181-08, 199-181-13, and 199-181-14, located in the Muir Beach portion of the recreation area.".

(b) Section 3(i) of such Act is amended to read as follows:

New construction, limitation. 16 USC 460bb-2. *Ante*, p. 3484.

"(i) New construction and development within the boundaries described in section 2(a) on lands under the administrative jurisdiction of a department other than that of the Secretary is prohibited, except that improvements on lands which have not been transferred to his administrative jurisdiction may be reconstructed or demolished. Any such structure which is demolished may be replaced with an improvement of similar size, following consultation with the Secretary or his designated representative, who shall conduct a public hearing at a location in the general vicinity of the area, notice of which shall be given at least one week prior to the date thereof. The foregoing limitation on construction and development shall not apply to expansion of those facilities known as Letterman General Hospital or the Western Medical Institute of Research.".

Notice and public hearing.

Exception.

(c) Subsection 3(j) of such Act is amended to read as follows:

Use and occupancy right, retention.

"(j) The owner of improved residential property or of agricultural property on the date of its acquisition by the Secretary under this Act may, as a condition of such acquisition, retain for himself and his or her heirs and assigns a right of use and occupancy for a definite term of not more than twenty-five years, or, in lieu thereof, for a term ending at the death of the owner or the death of his or her spouse, whichever is later. The owner shall elect the term to be reserved. Unless the property is wholly or partly donated to the United States, the Secretary shall pay to the owner the fair market value of the property on the date of acquisition minus the fair market value on that date of the right retained by the owner. A right retained pursuant to this section shall be subject to termination by the Secretary upon his or her determination that it is being exercised in a manner inconsistent with the purposes of this Act, and it shall terminate by operation of law upon the Secretary's notifying the holder of the right of such determination and tendering to him or her an amount equal to the fair market value of that portion of the right which remains unexpired. Where appropriate in the discretion of the Secretary, he or she may lease federally owned land (or any interest therein) which has been acquired by the Secretary under this Act, and which was agricultural land prior to its acquisition. Such lease shall be subject to such restrictive covenants as may be necessary to carry out the purposes of this Act. Any land to be leased by the Secretary under this section shall be offered first for such lease to the person who owned such land or who was a leaseholder thereon immediately before its acquisition by the United States.".

Payment.

Termination and notification.

Federally-owned land, lease.

(d) In subsection 3(k) of such Act, following "June 1, 1971," insert "or, in the case of areas added by action of the Ninety-fifth Congress, October 1, 1978,"; and at the end of the subsection, add the following new sentence: "The term 'agricultural property' as used in this Act means lands which are in regular use for agricultural, ranching, or dairying purposes as of January 1, 1978, together with residential and other structures related to the above uses of the property as such structures exist on said date."

"Agricultural property."

(e) Section 3 of such Act is amended by adding the following at the end thereof:

Management.

"(n) The Secretary shall accept and shall manage in accordance with this Act, any land and improvements adjacent to the recreation area which are donated by the State of California or its political subdivisions. The boundaries of the recreation area shall be changed to include such donated lands.

Payment deferral, scheduling, and interest rate.

"(o) In acquiring those lands authorized by the Ninety-fifth Congress for the purposes of this Act, the Secretary may, when agreed upon by the landowner involved, defer payment or schedule payments over a period of ten years and pay interest on the unpaid balance at a rate not exceeding that paid by the Treasury of the United States for borrowing purposes.".

Administration. 16 USC 460bb-3. Fees or admission charges.

(f) Section 4 of such Act is amended by adding the following at the end thereof:

"(e) No fees or admission charges shall be levied for admission of the general public to the recreation area except to portions under lease or permit for a particular and limited purpose authorized by the Secretary. The Secretary may authorize reasonable charges for public transportation and, for a period not exceeding five years from the date of enactment of this legislation, for admission to the sailing vessel Balclutha.

Certain rental proceeds, crediting.

"(f) Notwithstanding any other provisions of law, in the administration of those parcels of property known as Haslett Warehouse, Cliff House Properties and Louis' Restaurant, the Secretary shall credit any proceeds from the rental of space in the aforementioned properties to the appropriation, if any, bearing the cost of their administration, maintenance, repair and related expenses and also for the maintenance, repair and related expenses of the vessels and the adjacent piers comprising the National Maritime Museum, for major renovation and park rehabilitation of those buildings included in the Fort Mason Foundation Cooperative Agreement, and for a coordinated public and private access system to and within the recreation area and other units of the national park system in Marin and San Francisco Counties: *Provided*, That surplus funds, if any, will be deposited into the Treasury of the United States: *Provided further*, That notwithstanding any other provision of law, in the administration of said parcels the Secretary may, if he deems appropriate, enter into a contract for the management of said parcels of property with such terms and conditions as will protect the Government's interest, with excess funds being used as set forth above.".

Management contract.

16 USC 460bb-4.

(g) Section 5(b) of such Act is amended by changing the word "fifteen" to "seventeen".

POINT REYES NATIONAL SEASHORE

Area description. 16 USC 459c-1.

SEC. 318. (a) Section 2(a) of the Act of September 13, 1962 (76 Stat. 538) as amended (16 U.S.C. 459) is further amended as follows:

"SEC. 2. (a) The Point Reyes National Seashore shall consist of the lands, waters, and submerged lands generally depicted on the map entitled 'Boundary Map, Point Reyes National Seashore', numbered 612-80,008-E and dated May 1978.

Map, availability.

"The map referred to in this section shall be on file and available for public inspection in the Offices of the National Park Service, Department of the Interior, Washington, District of Columbia. After advising the Committee on Interior and Insular Affairs of the United States House of Representatives and the Committee on Energy and

Public Law 87-657
87th Congress, S. 476
September 13, 1962

An Act

76 STAT. 538.

To establish the Point Reyes National Seashore in the State of California, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That in order to save and preserve, for purposes of public recreation, benefit, and inspiration, a portion of the diminishing seashore of the United States that remains undeveloped, the Secretary of the Interior (hereinafter referred to as the "Secretary") is hereby authorized to take appropriate action in the public interest toward the establishment of the national seashore set forth in section 2 of this Act.

California. Point Reyes National Seashore. Establishment.

SEC. 2. (a) The area comprising that portion of the land and waters located on Point Reyes Peninsula, Marin County, California, which shall be known as the Point Reyes National Seashore, is described as follows by reference to that certain boundary map, designated NS-PR-7001, dated June 1, 1960, on file with the Director, National Park Service, Washington, District of Columbia.

Beginning at a point, not monumented, where the boundary line common to Rancho Punta de los Reyes (Sobrante) and Rancho Las Baulines meets the average high tide line of the Pacific Ocean as shown on said boundary map;

Thence southwesterly from said point 1,320 feet offshore on a prolongation of said boundary line common to Rancho Punta de los Reyes (Sobrante) and Rancho Las Baulines;

Thence in a northerly and westerly direction paralleling the average high tide line of the shore of the Pacific Ocean; along Drakes Bay, and around Point Reyes;

Thence generally northerly and around Tomales Point, offshore a distance of 1,320 feet from average high tide line;

Thence southeasterly along a line 1,320 feet offshore and parallel to the average high tide line along the west shore of Bodega Bay and Tomales Bay to the intersection of this line with a prolongation of the most northerly tangent of the boundary of Tomales Bay State Park;

Thence south 54 degrees 32 minutes west 1,320 feet along the prolongation of said tangent of Tomales Bay State Park boundary to the average high tide line on the shore of Tomales Bay;

Thence following the boundary of Tomales Bay State Park in a southerly direction to a point lying 105.4 feet north 41 degrees east of an unimproved road heading westerly and northerly from Pierce Point Road;

Thence south 41 degrees west 105.4 feet to a point on the north right-of-way of said unimproved road;

Thence southeasterly along the north right-of-way of said unimproved road and Pierce Point Road to a point at the southwest corner of Tomales Bay State Park at the junction of the Pierce Point Road and Sir Francis Drake Boulevard;

Thence due south to a point on the south right-of-way of said Sir Francis Drake Boulevard;

Thence southeasterly along said south right-of-way approximately 3,100 feet to a point;

Thence approximately south 19 degrees west approximately 300 feet;

Thence south approximately 400 feet;

Thence southwest to the most northerly corner of the Inverness watershed area;

Thence southerly and easterly along the west property line of the Inverness watershed area approximately 9,040 feet to a point near the

intersection of this property line with an unimproved road as shown on said boundary map;

Thence southerly along existing property lines that roughly follow said unimproved road to its intersection with Drakes Summit Road and to a point on the north right-of-way of Drakes Summit Road;

Thence easterly approximately 1,000 feet along the north right-of-way of said Drakes Summit Road to a point which is a property line corner at the intersection with an unimproved road to the south;

Thence southerly and easterly and then northerly, as shown approximately on said boundary map, along existing property lines to a point on the south right-of-way of the Bear Valley Road, approximately 1,500 feet southeast of its intersection with Sir Francis Drake Boulevard;

Thence easterly and southerly along said south right-of-way of Bear Valley Road to a point on a property line approximately 1,000 feet west of the intersection of Bear Valley Road and Sir Francis Drake Boulevard in the village of Olema;

Thence south approximately 1,700 feet to the northwest corner of property now owned by Helen U. and Mary S. Shafter;

Thence southwest and southeast along the west boundary of said Shafter property to the southwest corner of said Shafter property;

Thence approximately south 30 degrees east on a course approximately 1,700 feet to a point;

Thence approximately south 10 degrees east on a course to the centerline of Olema Creek;

Thence generally southeasterly up the centerline of Olema Creek to a point on the west right-of-way line of State Route Numbered 1;

Thence southeasterly along westerly right-of-way line to State Highway Numbered 1 to a point where a prolongation of the boundary line common to Rancho Punta de los Reyes (Sobrante) and Rancho Las Baulines would intersect right-of-way line of State Highway Numbered 1;

Thence southwesterly to and along said south boundary line of Rancho Punta de los Reyes (Sobrante) approximately 2,900 feet to a property corner;

Thence approximately south 38 degrees east approximately 1,500 feet to the centerline of Pine Gulch Creek;

Thence down the centerline of Pine Gulch Creek approximately 400 feet to the intersection with a side creek flowing from the west;

Thence up said side creek to its intersection with said south boundary line of Rancho Punta de los Reyes (Sobrante);

Thence southwest along said south boundary line of Rancho Punta de los Reyes to the point of beginning, containing approximately 53,000 acres. Notwithstanding the foregoing description, the Secretary is authorized to include within the Point Reyes National Seashore the entire tract of land owned by the Vedanta Society of Northern California west of the centerline of Olema Creek, in order to avoid a severance of said tract.

(b) The area referred to in subsection (a) shall include also a right-of-way, to be selected by the Secretary, of not more than 400 feet in width to the aforesaid tract from the intersection of Sir Francis Drake Boulevard and Haggerty Gulch.

SEC. 3. (a) Except as provided in section 4, the Secretary is authorized to acquire, and it is the intent of Congress that he shall acquire as rapidly as appropriated funds become available for this purpose or as such acquisition can be accomplished by donation or with donated funds or by transfer, exchange, or otherwise the lands, waters, and other property, and improvements thereon and any interest therein, within the areas described in section 2 of this Act or which lie within

the boundaries of the seashore as established under section 5 of this Act (hereinafter referred to as "such area"). Any property, or interest therein, owned by a State or political subdivision thereof may be acquired only with the concurrence of such owner. Notwithstanding any other provision of law, any Federal property located within such area may, with the concurrence of the agency having custody thereof, be transferred without consideration to the administrative jurisdiction of the Secretary for use by him in carrying out the provisions of this Act. In exercising his authority to acquire property in accordance with the provisions of this subsection, the Secretary may enter into contracts requiring the expenditure, when appropriated, of funds authorized by section 8 of this Act, but the liability of the United States under any such contract shall be contingent on the appropriation of funds sufficient to fulfill the obligations thereby incurred.

(b) The Secretary is authorized to pay for any acquisitions which he makes by purchase under this Act their fair market value, as determined by the Secretary, who may in his discretion base his determination on an independent appraisal obtained by him.

(c) In exercising his authority to acquire property by exchange, the Secretary may accept title to any non-Federal property located within such area and convey to the grantor of such property any federally owned property under the jurisdiction of the Secretary within California and adjacent States, notwithstanding any other provision of law. The properties so exchanged shall be approximately equal in fair market value, provided that the Secretary may accept cash from or pay cash to the grantor in such an exchange in order to equalize the values of the properties exchanged.

SEC. 4. No parcel of more than five hundred acres within the zone of approximately twenty-six thousand acres depicted on map numbered NS–PR–7002, dated August 15, 1961, on file with the director, National Park Service, Washington, District of Columbia, exclusive of that land required to provide access for purposes of the national seashore, shall be acquired without the consent of the owner so long as it remains in its natural state, or is used exclusively for ranching and dairying purposes including housing directly incident thereto. The term "ranching and dairying purposes", as used herein, means such ranching and dairying, primarily for the production of food, as is presently practiced in the area. "Ranching and dairying purposes."

In acquiring access roads within the pastoral zone, the Secretary shall give due consideration to existing ranching and dairying uses and shall not unnecessarily interfere with or damage such use.

SEC. 5. (a) As soon as practicable after the date of enactment of this Act and following the acquisition by the Secretary of an acreage in the area described in section 2 of this Act, that is in the opinion of the Secretary efficiently administrable to carry out the purposes of this Act, the Secretary shall establish Point Reyes National Seashore by the publication of notice thereof in the Federal Register. Publication in F. R.

(b) Such notice referred to in subsection (a) of this section shall contain a detailed description of the boundaries of the seashore which shall encompass an area as nearly as practicable identical to the area described in section 2 of this Act. The Secretary shall forthwith after the date of publication of such notice in the Federal Register (1) send a copy of such notice, together with a map showing such boundaries, by registered or certified mail to the Governor of the State and to the governing body of each of the political subdivisions involved; (2) cause a copy of such notice and map to be published in one or more newspapers which circulate in each of the localities; and (3) cause a certified copy of such notice, a copy of such map, and a copy of this Act to be recorded at the registry of deeds for the county involved. Notification of Governor, etc.

76 STAT. 541.

SEC. 6. (a) Any owner or owners (hereinafter in this subsection referred to as "owner") of improved property on the date of its acquisition by the Secretary may, as a condition to such acquisition, retain the right of use and occupancy of the improved property for noncommercial residential purposes for a term of fifty years. The Secretary shall pay to the owner the fair market value of the property on the date of such acquisition less the fair market value on such date of the right retained by the owner.

"Improved property."

(b) As used in this Act, the term "improved property" shall mean a private noncommercial dwelling, including the land on which it is situated, whose construction was begun before September 1, 1959, and structures accessory thereto (hereinafter in this subsection referred to as "dwelling"), together with such amount and locus of the property adjoining and in the same ownership as such dwelling as the Secretary designates to be reasonably necessary for the enjoyment of such dwelling for the sole purpose of noncommercial residential use and occupancy. In making such designation the Secretary shall take into account the manner of noncommercial residential use and occupancy in which the dwelling and such adjoining property has usually been enjoyed by its owner or occupant.

SEC. 7. (a) Except as otherwise provided in this Act, the property acquired by the Secretary under this Act shall be administered by the Secretary, subject to the provisions of the Act entitled "An Act to establish a National Park Service, and for other purposes", approved August 25, 1916 (39 Stat. 535), as amended and supplemented, and in accordance with other laws of general application relating to the national park system as defined by the Act of August 8, 1953 (67 Stat. 496), except that authority otherwise available to the Secretary for the conservation and management of natural resources may be utilized to the extent he finds such authority will further the purposes of this Act.

16 USC 1.

16 USC 1a.

(b) The Secretary may permit hunting and fishing on lands and waters under his jurisdiction within the seashore in such areas and under such regulations as he may prescribe during open seasons prescribed by applicable local, State, and Federal law. The Secretary shall consult with officials of the State of California and any political subdivision thereof who have jurisdiction of hunting and fishing prior to the issuance of any such regulations, and the Secretary is authorized to enter into cooperative agreements with such officials regarding such hunting and fishing as he may deem desirable.

Appropriation.

SEC. 8. There are authorized to be appropriated such sums as may be necessary to carry out the provisions of this Act, except that no more than $14,000,000 shall be appropriated for the acquisition of land and waters and improvements thereon, and interests therein, and incidental costs relating thereto, in accordance with the provisions of this Act.

Approved September 13, 1962.

APPENDIX D: RARE, THREATENED, OR ENDANGERED PLANTS AND ANIMALS OF GGNRA AND POINT REYES NATIONAL SEASHORE

Table D-1: Candidate Plants Within the Area of GGNRA and Point Reyes National Seashore

Scientific Name	Common Name
GGNRA	
Arabis blepharophylla	Coast rockcress
Arctostaphylos hookeri ssp. franciscana	*Laural Hill manzanita
Arctostaphylos hookeri ssp. montana	Mt. Tamalpais manzanita
Arctostaphylos hookeri ssp. ravenii	Raven's manzanita (listed as endangered 10/26/79)
Arctostaphylos virgata	Bolinas manzanita
Ceanothus masonii	*Mason's California lilac
Cicuta bolandari	Suisun water hemlock
Cirsium hydrophilum var. vaseyi	Mt. Tamalpais thistle
Clarkia franciscana	*Presidio clarkia
Dichondra donnelliana	Coast dichondra
Eriogonum caninum	*Tiburon buckwheat
Erysimum franciscanum var. franciscanum	*San Francisco wallflower
Gutierrezia californica	San Joaquin matchweed
Hesperolinon congestum	*Marin dwarf flax
Hystrix californica	California bottlebrush grass
Microseris decipiens	*Santa Cruz microseris
Orthocarpus floribundus	San Francisco owlclover
Pityopus californicus	Pityopus
Plagiobothrys diffusus	San Francisco popcorn-flower
Pleuropogon hooverianus	*Hoover's semaphore grass
Sidalcea hickmanii ssp. viridus	Marin mallow
Streptanthus batrachopus	Tamalpais jewelflower
Streptanthus glandulosus var. pulchellus	Marin jewelflower
Tanacetum camphoratum	Dune tansy
Trifolium amoenum	*Two-fork clover

Scientific Name	Common Name
Point Reyes	
Agrostis aristiglumis	Awned bent-grass
Agrostis blasdalei var. marinensis	*Marin bent-grass
Alopecurus aequalis var. sonomensis	Sonoma foxtail
Arabis biepharophylla	Coast rockcress
Arctostaphylos pacifica	*Pacific manzanita
Arctostaphylos virgata	Bolinas manzanita
Blennosperma nanum var. robustum	*Point Reyes blennosperma
Campanula californica	*Swamp harebell
Castilleja leschkeana	*Point Reyes Indian paintbrush
Ceanothus gloriosus var. porrectus	Mount Vision ceanothus
Chorizanthe valida	*Sonoma spineflower
Cicuta bolandari	Suisun water hemlock
Cordylanthus maritimus ssp. palustris	Point Reyes bird's-beak
Delphinium bakeri	*Baker's larkspur
Hystrix californica	California bottlebrush grass
Limnanthes douglasii var. sulphurea	Yellow meadowfoam
Orthocarpus floribundus	San Francisco owlclover
Polygonum marinense	Marin knotweed
Rhynchospora californica	*California beaked-rush
Tanacetum camphoratum	Dune tansy
Trifolium amoenum	*Two-fork clover

*Formerly proposed for endangered status.

Table D-2: List of Endangered, Threatened, and Candidate Wildlife Species Within GGNRA and Point Reyes National Seashore

Scientific Name	Common Name	Status
GGNRA		
Falco peregrinus anatum	American peregrine falcon	E
Grapholitha edwardsiana	San Francisco true lupine moth	PT
Laterallus jamaicensis coturnilus	California black rail	C
Pelecanus occidentalis californicus	California brown pelican	E
Rallus longirostris obsoletus	California clapper rail	E
Syncaris pacifica	California freshwater shrimp	C**
Point Reyes		
Coclus globosus	Globose dune beetle	PT
Falco peregrinus anatum	American peregrine falcon	E
Helminthoglypta arrosa miwoka	Dented peninsula snail	C*
Helminthoglypta nickliniana awania	Nicklin's peninsula snail	C**
Laterallus jamaicensis coturnilus	California black rail	C
Pelecanus occidentalis californicus	California brown pelican	E
Rallus longirostris obsoletus	California clapper rail	E

E = Endangered
PT = Proposed Threatened
C = Candidate

* Formerly proposed for endangered status
** Formerly proposed for threatened status

United States Department of the Interior
NATIONAL PARK SERVICE
DENVER SERVICE CENTER
755 Parfet Street
P.O. Box 25287
Denver, Colorado 80225

IN REPLY REFER TO:
N3615-DSC-SPE

8 NOV 1979

Memorandum

To: Assistant Manager, Pacific Northwest/Western Team, DSC
Attention: Nancy Fries

From: Chief, Environmental Investigations Unit, DSC

Subject: Calculated concentrations of exhaust emission in the vicinity of the Limontour Road, Point Reyes, GGNRA

The Environmental Investigations Unit, Special Programs Division, DSC, was asked to provide an assessment of the air quality impact from vehicular emissions to be expected as a result of traffic increases in GGNRA; such assessment to be used in developing the area's general management plan. It was decided in discussions between Nancy Fries (TWE) and Wayne Hamilton (SPE) that a "worst case" analysis be undertaken. Depending upon the outcome (calculated concentrations in relation to applicable air quality standards) it could then be decided whether or not other cases should be examined as well. This "worst case" analysis, prepared by Dr. Wayne Hamilton, is presented as follows:

METHOD: Limontour Road in Point Reyes National Seashore was selected for analysis because it passes through a corridor (600 feet wide) separating mandatory Class I wilderness areas. Such areas are now protected against significant deterioration of air quality by the Clean Air Act Amendments.

A half-mile, twisting segment of the road which climbs a 19 percent grade, where traffic conforms closely to the posted 15 mph speed limit, was selected for analysis according to line-source gaussian plume modeling theory. The basic equation is:

$$\bar{C} = \frac{2q}{\sqrt{2\pi}\, u\, \sigma_z\, (x)}\, e^{-\frac{h^2}{2\sigma_z^2}} \qquad (1)$$

where:

$\bar{C}$ = acreage concentration at distance x ($\mu g\ m^{-3}$)

q = emission rate ($\mu g\ m^{-1} sec^{-1}$)

$\bar{u}$ = wind velocity ($m\ sec^{-1}$)

σ_z = vertical dispersion parameter (m)

x = horizontal distance from highway to receptor (m)

z = height of receptor above surrounding terrain (m)

h = height of highway above surrounding terrain (m)

Equation (1) applies to the case where wind direction is perpendicular to the highway. Other things being equal, the calculated concentrations for a case where winds blow at approximately 45 degrees to the road centerline will be approximately one half those for a perpendicular wind situation. This applies to the case under investigation.

Emission rate, q, is a function of traffic volume (V_t, veh hr^{-1}) and the average emission factor ($\bar{E}$, g veh $^{-1}$mi $^{-1}$),

$$q = 1.726 \times 10^{-1} \bar{E}\ V_t \qquad (2)$$

The constant is for conversion to metric units.

Emission factors for carbon monoxide (CO), hydrocarbons (HC), nitrogen oxides (NO_x), particulates (TSP), and sulfur oxides (SO_x) have been derived from Table D.71 in EPA suppl. No. 5., 2nd edition for 1978 and 1990. They are tabulated below.

Table I

Year	CO	HC	NO_x	SO_x	TSP (all g/mi)
1978	42.7	6.6	4.3	0.21	0.51
1990	11.3	1.9	2.0	0.19	0.40

The above conclusion is based on the assumption that current (and future) air quality is not degraded by other sources to the extent that the input from vehicular emissions might be significant from an additive standpoint. Baseline data are essential to answer this important question.

Should you have further questions or require additional assistance, refer them to Dr. Wayne Hamilton on extension 6070.

Alex Carter
for Larry A. May

cc:
WR-RD, Mr. Chapman
WR-PS, Mr. Kilgore
WASO-492, Ms. Brown

Table I: Carbon Monoxide

	Traffic (vehicles)			Emission factor (g/mi)		Peak hour CO($\mu g/m^3$)			Peak 8-hour CO ($\mu g/m^3$)	
day/year	peak day (12-hr.)	peak hour	peak 8-hour	average speed	10 mph	total use	rec. use	peak rec. use	total use	rec. use
weekday 1976	17,500	2,150	11,000	22*	50	9700	900	2700	1400	407
weekend 1976	17,500	2,125	13,000	22*	50	9600	8400	8400	1600	1200
weekday 1986	30,700	3,165	21,680	7.6**	16.6	4730	3600	3600	940	560
weekend 1986	37,900	5,135	29,220	7.6**	16.6	7600	7200	7200	1270	1130

* - For 29 m.p.h. median measured
** - For 28 m.p.h. estimate

Table II: Hydrocarbons

	Peak 3-hr. 6-9 a.m. HC ($\mu g/m^3$)*	
day/year	total use	rec. use
weekday 1976	390	40
weekend 1976	250	120
weekday 1986	180	50
weekend 1986	150	100

*Emissions are 2.3 x 1-hour values, 1.5 m/sec. wind

The pertinent national ambient air quality standards for CO and HC are as follows:

Table III: NAAQS Standards

Pollutant	Interval	Concentration ($\mu g/m^3$)
CO	1-hour	40,000
CO	8-hour	10,000
HC	3-hour (6-9 a.m.)	160

Examination of the tables shows that CO and HC standards were not exceeded in 1976 by emissions from Recreation Area-related traffic, and no exceedences are indicated for 1986 traffic due to recreation traffic.

Total vehicle use (which includes commuter traffic over which GGNRA has no control) led to calculated excessive concentrations of HC on peak weekends and weekdays in 1976 and on peak weekdays in 1986. The Recreation Area-related contribution in these cases is 10 percent, 48 percent and 28 percent respectively.

The Bay Area Air Pollution Control District Air Quality Maintenance Plan, Tech. Memo 3, discussion of past and present air quality (March, 1977) states that ozone and carbon monoxide concentrations have decreased since the mid-to-late 1960s. Highest concentrations and incidents of exceedence are more common in the south-bay area, near San Jose. Thus contributions from recreation traffic along Marina Boulevard near GGNRA are not seen as a major current nor future air quality factor in the Bay Area.

If you have questions on this analysis, please contact Wayne L. Hamilton at x6070.

Howard J. Gaines

APPENDIX F:
WATER DEMAND DATA

In order to determine whether the available water supply is adequate for the drinking and sanitary requirements of visitors, water demand was estimated for the following facilities and uses. The figures represent the amounts of water in gallons that one person will use during a day or overnight visit to the park. These amounts per person when multiplied by the peak project visitation levels of the facilities equal the total amount of water that will be necessary.

Hostel	60 gallons per person
Group camping	20 gallons per person
Hike-in camping	10 gallons per person
Walk-in camping	20 gallons per person
Day use (Marin Headlands, Angel Island, Mount Tamalpais)	10 gallons per person
Day use (Olema Valley, Point Reyes	5 gallons per person

Irrigation water demand was estimated by assuming that up to one-half inch of water per week will be required for 6 months each year with rain and fog decreasing or eliminating the need for irrigation much of the rest of the year.

Advisory Council On Historic Preservation

1522 K Street, NW
Washington, DC 20005

MEMORANDUM OF AGREEMENT

WHEREAS, the National Park Service (NPS), Western Region, proposes to approve and implement a General Management Plan and Environmental Analysis for the Golden Gate National Recreation Area, Point Reyes National Seashore, Fort Point National Historic Site and Muir Woods National Monument; and,

WHEREAS, NPS, in consultation with the California State Historic Preservation Officer (SHPO), has determined that this undertaking, as proposed, may have an adverse effect on the cultural properties located within the Recreation Area, Seashore, Historic Site and National Monument which are included in and eligible for the National Register of Historic Places; and,

WHEREAS, pursuant to Section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. Sec. 470f, as amended, 90 Stat. 1320) and Section 2(b) of Executive Order 11593, "Protection and Enhancement of the Cultural Environment," and Section I.A. of the Programmatic Memorandum of Agreement between NPS, the Advisory Council on Historic Preservation (Council) and the National Conference of State Historic Preservation Officers, ratified by the Chairman December 19, 1979, NPS has requested the comments of the Council; and,

NOW, THEREFORE it is mutually agreed that the undertaking will be carried out in accordance with attached proposal.

Robert Barrey Sept 9 (date) 1980
Executive Director
Advisory Council on Historic Preservation

Richard H. Smith (date) 9-15-80
Chairman
Advisory Council on Historic Preservation

PROPOSAL
for
MEMORANDUM OF AGREEMENT

PARK GOLDEN GATE NATIONAL RECREATION AREA

PLAN GENERAL MANAGEMENT PLAN/ENVIRONMENTAL ANALYSIS

JULY 7, 1980

CONSULTATION HISTORY

Letters to the State Historic Preservation Officer: May 23, 1979; September 20, 1979; March 26, 1980 and July 2, 1980.

Letters from the State Historic Preservation Officer: November 30, 1979 and June 19, 1980.

Letters to the Advisory Council on Historic Preservation: August 24, 1979; June 6, 1980.

Letters from the Advisory Council on Historic Preservation: September 18, 1979; June 26, 1980.

On June 9, 1980, the Western Region, National Park Service received approval to implement the Programmatic Memorandum of Agreement for basic planning documents. The Agreement between the Advisory Council on Historic Preservation, National Conference of State Historic Preservation Officers and the National Park Service is in accordance with the Procedures of the Advisory Council, 36 CFR 800.

PROPOSAL

The National Park Service proposes to approve and implement a General Management Plan and Environmental Analysis for the Golden Gate National Recreation Area, Point Reyes National Seashore and Fort Point National Historic Site, Muir Woods National Monument the later areas which are also administered by Golden Gate.

It was determined during the consultation process, described above, that the following appropriate actions will be taken to avoid or satisfactorily mitigate any adverse effects which may occur arising from the implementation of undertakings in the Plan. These conditions are:

CONDITIONS

1. Implementing actions involving historic structures and lands involving preservation, maintenance, rehabilitation, restoration, adaptive use, and stabilization of cultural resources shall meet appropriate Standards, Guidlines, Policies and Procedures including:

   a. Secretary of the Interior, for the Rehabilitation of Historic Buildings and Historic Preservation Projects.

   b. National Park Service, Management Policies for Historic Preservation, Cultural Resource Management Guidelines, and the Western Regions Procedures for Archeological Clearances.

c. For undertakings involving a complex of historic structures, Design Criteria considering the specific elements of significance of the complex and items a & b, will be prepared.

2. To assure that the use of historic structures, facilities and grounds by public organizations, non-profit organizations, foundations and commercial firms/utility companies is in accordance with Item One, the groups will be advised well in advance that conformance is required. All permits, leases, agreements issued by the Service will reflect this responsibility.

3. The National Park Service shall review and maintain adequate documentation evidencing the individual implementation actions are consistent with the approved Plan and Cultural Resource Standards, Guidelines, Policies and Procedures.

   An Assessment of Actions Having An Effect on Cultural Resources will be used to document the review. The Assessment will be reviewed by professional cultural resource personnel in the Western Regional Office. When a proposed action is questionable or not in concurrence with appropriate standards, Section One above, and the proposal is not altered to conformance, the assessment form with all documentation of the review and proposed undertaking will be provided the State Historic Preservation Officer for review and comment.

4. Should new undertakings be advance which are not encompassed by the General Management Plan, should major revisions occur, or if proposed actions by the Plan prove not to be feasible, the State Historic Preservation Officer will be afforded an opportunity to comment in accordance with the Procedures of the Advisory Council on Historic Preservation, 36 CFR 800.

5. The State Historic Preservation Officer or the Advisory Council on Historic Preservation independently or upon notification reserve the right to object in a timely manner to any implementing action that may be adverse to cultural resources.

If you concur with the above conditions for the proposed Memorandum of Agreement, please sign in the space provided below and return the letter to this Office. A copy of the letter is enclosed for your files.

Sincerely yours,

Howard H. Chapman,
Regional Director,
Western Region

In Duplicate

I concur with the above statement of conditions which will be included in the Memorandum of Agreement on the General Management Plan, Golden Gate National Recreation Area.

Kenneth McEllon — 7/7/80

State Historic Preservation Officer — Date

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U.S. DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE

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PLANNING TEAM

PRINCIPALS

Rolf Diamant	Landscape Architect GGNRA
Nancy Fries	Ecologist Denver Service Center
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