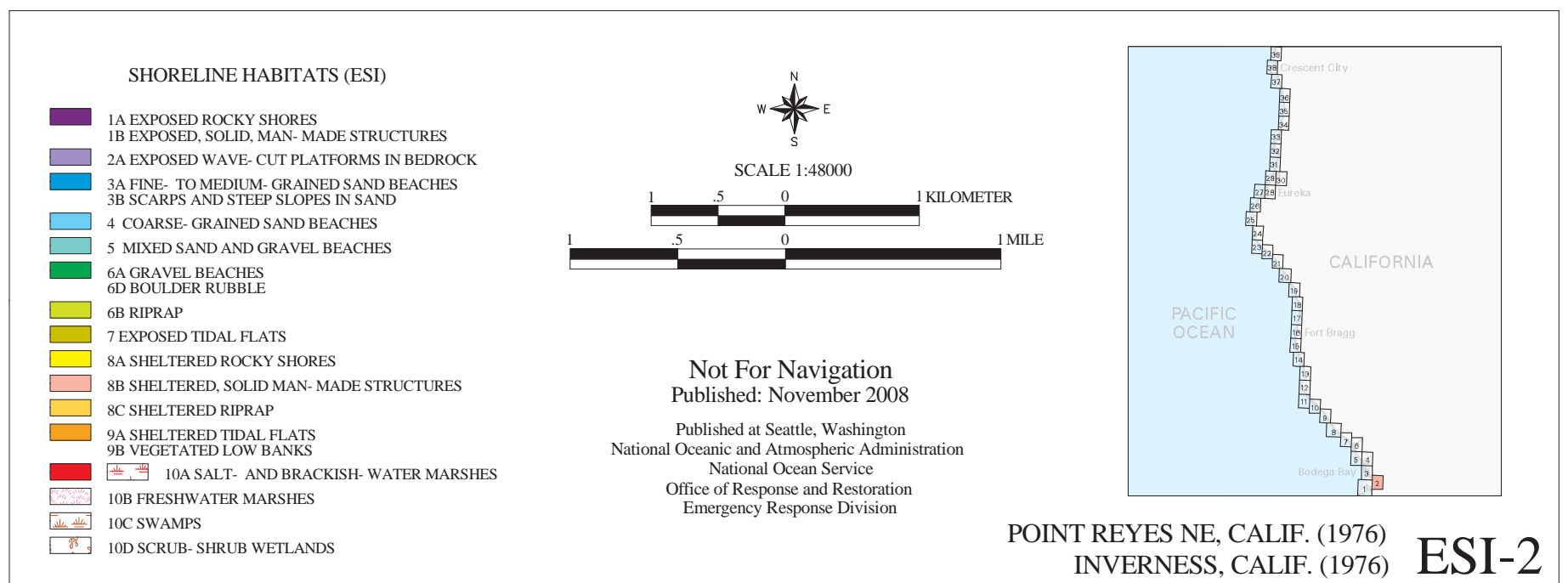
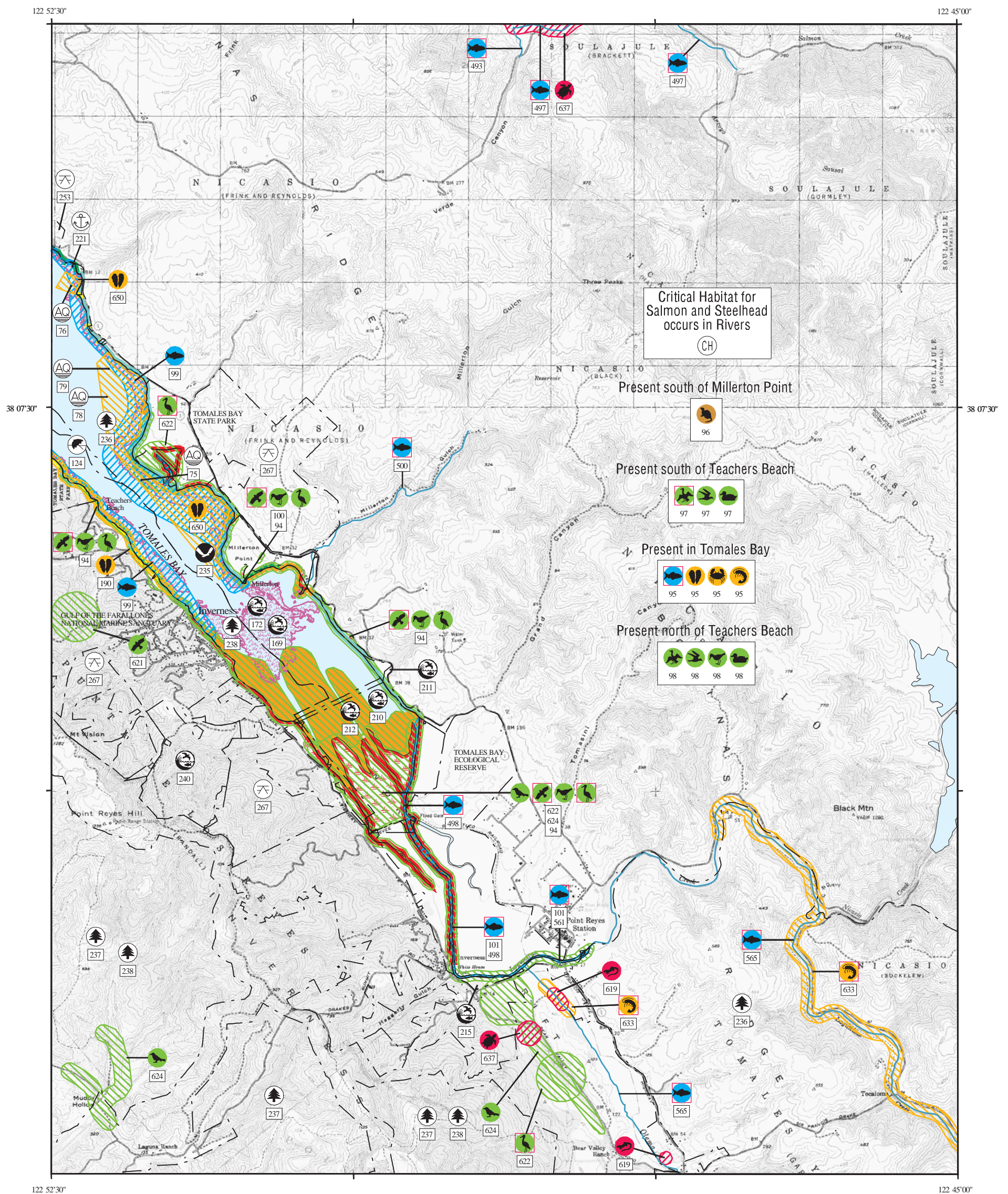


ENVIRONMENTAL SENSITIVITY INDEX MAP



Northern California: ESIMAP 2

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
94	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Great egret		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Green heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Merlin		X	X	X	X	X			X	X	X	X		-	-	-
	Shorebirds	1000S	X	X	X	X		X	X	X	X	X	X	X	-	MAR-APR JUL-OCT	-
97	Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	American coot		X	X	X	X				X	X	X	X		-	-	-
	American wigeon	HIGH	X	X	X	X				X	X	X			-	-	-
	Brant		X	X	X	X				X	X	X			-	-	-
	Brown pelican	E E				X	X	X	X	X	X	X	X		-	-	-
	Bufflehead	VERY HIGH	X	X	X	X				X	X				-	-	-
	Clark's grebe		X	X	X	X				X	X	X			-	-	-
	Double-crested cormorant	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Forster's tern			X	X	X	X	X	X	X	X	X			-	-	-
	Gadwall		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Greater scaup	HIGH	X	X	X	X				X	X	X			-	-	-
	Green-winged teal		X	X	X	X				X	X	X	X		-	-	-
	Horned grebe		X	X	X	X				X	X	X			-	-	-
	Lesser scaup		X	X	X					X	X	X			-	-	-
	Northern pintail	HIGH	X	X	X	X	X		X	X	X	X	X	X	-	-	-
	Ruddy duck	VERY HIGH	X	X	X	X				X	X	X			-	-	-
	Surf scoter	HIGH	X	X	X	X				X	X	X	X		-	-	-
	Western grebe		X	X	X	X				X	X	X	X		-	-	-
98	American coot		X	X	X	X				X	X	X	X		-	-	-
	American wigeon		X	X	X	X				X	X	X			-	-	-
	Black scoter		X	X	X	X				X	X				-	-	-
	Brandt's cormorant				X	X	X	X	X	X	X	X			-	-	-
	Brant		X	X	X	X				X	X	X			-	-	-
	Bufflehead	HIGH	X	X	X	X				X	X				-	-	-
	Clark's grebe		X	X	X	X				X	X	X			-	-	-
	Common goldeneye		X	X	X	X				X	X	X			-	-	-
	Common loon		X	X	X	X	X			X	X	X	X		-	-	-
	Double-crested cormorant	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Eared grebe	HIGH	X	X	X	X				X	X	X	X		-	-	-
	Forster's tern			X	X	X	X	X	X	X	X	X			-	-	-
	Greater scaup	VERY HIGH	X	X	X	X				X	X	X			-	-	-
	Horned grebe	HIGH	X	X	X	X				X	X	X			-	-	-
	Pacific loon				X	X	X			X	X				-	-	-
	Red phalarope				X	X	X	X	X	X	X	X			-	-	-
	Red-breasted merganser		X	X	X	X	X			X	X				-	-	-
	Red-throated loon		X	X	X	X	X			X	X				-	-	-
	Ruddy duck		X	X	X	X				X	X	X			-	-	-
	Surf scoter	VERY HIGH	X	X	X	X				X	X	X	X		-	-	-
	Western grebe	HIGH	X	X	X	X	X			X	X	X	X		-	-	-
	White-winged scoter		X	X	X	X				X	X	X			-	-	-
100	Osprey		X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-
621	Osprey		X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-
622	California black rail	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
624	Saltmarsh common yellowthroat			X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
95	Arrow goby		X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	California halibut		X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-APR	JAN-DEC	-
	Coho salmon	E E	X	X	X	X	X			X	X	X			-	-	-	MAR-JUN	OCT-MAR
	English sole		X	X	X	X	X	X	X	X	X	X	X		-	-	DEC-MAY	JAN-DEC	-
	Green sturgeon	T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-DEC	JAN-DEC	JAN-DEC
	Leopard shark		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	OCT-JUN
	Lingcod			X	X	X	X	X	X						-	-	FEB-MAR	APR-AUG	-
	Northern anchovy		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-DEC	JAN-DEC	JAN-DEC
	Pacific staghorn sculpin		X	X	X	X	X	X	X	X	X	X	X	X	OCT-MAR	OCT-APR	OCT-APR	JAN-DEC	JAN-DEC
	Pile surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	-	-	JAN-DEC	FEB-NOV
	Rockfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Shiner surfperch					X	X	X	X	X	X	X	X		APR-NOV	-	-	APR-NOV	APR-NOV
	Silver surfperch		X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	-	JUN-AUG	JAN-DEC	JAN-DEC
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	JAN-DEC	JAN-DEC
	Steelhead	T	X	X	X		X	X	X	X	X	X	X		-	-	-	MAY-AUG	OCT-MAR
	Striped bass					X	X	X	X	X					-	-	-	-	MAY-SEP
	Surf smelt		X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-APR	JAN-DEC	JAN-DEC
	Threespine stickleback		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUN	MAR-AUG	JUN-MAR	JAN-DEC
	Topsmelt		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	MAY-AUG	JAN-DEC	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN NOV-DEC	-	-	APR-FEB	JAN-DEC
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	JAN-DEC	JAN-DEC
	White sturgeon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
99	Pacific herring		X	X	X	X	X	X	X		X	X			NOV-MAR	NOV-MAR	NOV-MAR	MAR-AUG	NOV-MAR
101	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
493	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	DEC-MAR
497	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-MAR	MAR-APR	JAN-DEC	NOV-JAN
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	JAN-MAY	JAN-DEC	DEC-MAR
498	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-MAR	MAR-APR	JAN-DEC	NOV-JAN
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	DEC-MAR
500	Steelhead	T	X	X	X										-	-	-	-	DEC-MAR
561	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	JAN-MAY	JAN-DEC	DEC-MAR
565	Chinook salmon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-FEB	NOV-APR	JAN-SEP	AUG-JAN
	Coho salmon	E E HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-MAR	MAR-APR	JAN-DEC	NOV-JAN
	Green sturgeon	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Pink salmon		X	X	X	X		X	X	X	X	X	X	X	JUN-OCT	JUL-MAR	-	DEC-APR	JUN-OCT
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	JAN-MAY	JAN-DEC	DEC-MAR

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
95	Bay mussel		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	APR-SEP	JAN-DEC	JAN-DEC
	California bay shrimp		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	California butterclam		X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	-	-	JAN-DEC
	Dungeness crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	JAN-DEC	JAN-DEC
190	California native oyster		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
633	California freshwater shrimp	E E	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	JAN-DEC	JAN-DEC
650	Manila clam		X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-NOV	APR-OCT	JAN-DEC	JAN-DEC
	Mediterranean mussel		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Pacific oyster	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

Northern California: ESIMAP 2 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
619	California red-legged frog		X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
637	Northwestern pond turtle		X X X X X X X X X X X	APR-JUN	-	-	JAN-DEC	JAN-DEC

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
96	Northern river otter		X X X X X X X X X X X

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
75	M-430-05	CDFG, T. MOORE	707/688-3192
76	M-430-06 AQUACULTURE LEASE	CDFG, T. MOORE	707/688-3192
78	M-430-12 AQUACULTURE LEASE	CDFG, T. MOORE	707/688-3192
79	M-430-13 AQUACULTURE LEASE	CDFG, T. MOORE	707/688-3192

BEACH:

HUN#	Name	Contact	Phone
124	TOMALES BAY STATE PARKS	CSP	415/669-1140

ESSENTIAL HABITAT:

HUN#	Name	Contact	Phone
169	ESSENTIAL FISH HABITAT HAPC - ESTUARIES	PACIFIC STATES MARINE FISHERIES COMMISSION	
172	ESSENTIAL FISH HABITAT HAPC - SEAGRASS	PACIFIC STATES MARINE FISHERIES COMMISSION	

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
210	TOMALES BAY ER	CDFG	707/944-5500
211	TOMALES BAY FA	CDFG	
212	TOMALES BAY SMP	CDFG	
215	WHITE HOUSE POOL FA	CDFG	

MARINA:

HUN#	Name	Contact	Phone
221	MARCONI COVE MARINA		

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
235	GULF OF THE FARALLONES NMS	NOAA	415/561-6622

NATIONAL PARK:

HUN#	Name	Contact	Phone
236	GOLDEN GATE NATIONAL RECREATION AREA	NATIONAL PARK SERVICE	415/561-4700
237	PHILIP BURTON WILDERNESS	NATIONAL PARK SERVICE	415/464-5100
238	POINT REYES NATIONAL SEASHORE	NATIONAL PARK SERVICE	415/464-5100

NATURE CONSERVANCY:

HUN#	Name	Contact	Phone
240	BISHOP PINE PRESERVE	TNC	916/653-5656

PARK:

HUN#	Name	Contact	Phone
253	MARCONI CONFERENCE CENTER SHP	CDPR	415/663-9020
267	TOMALES BAY SP	CDPR	415/669-1140