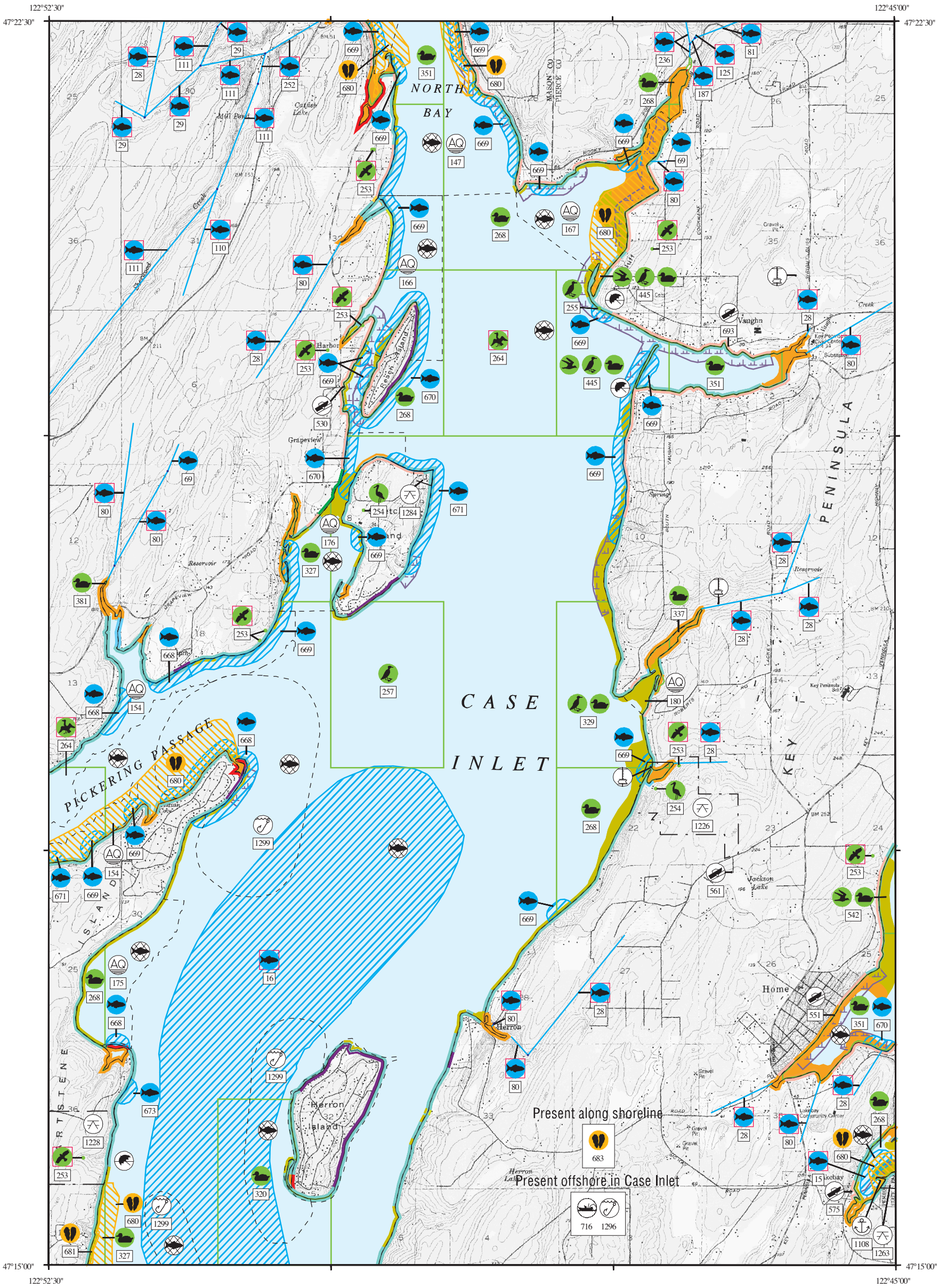
ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
  1B EXPOSED, SOLID MAN–MADE STRUCTURES
- 2A EXPOSED WAVE–CUT PLATFORMS IN BEDROCK, MUD, OR CLAY
- 3A FINE–TO MEDIUM–GRAINED SAND BEACHES
  3B SCARPS AND STEEP SLOPES IN SAND
- 4 COARSE–GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
  6D BOULDER RUBBLE
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN BEDROCK, MUD, OR CLAY
- 8B SHELTERED, SOLID MAN–MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
  9B VEGETATED LOW BANKS
- 10A SALT– AND BRACKISH–WATER MARSHES
- 10C SWAMPS

N W E S

1 .5 0 1 KILOMETER

1 .5 0 1 MILE

SCALE 1:45000

Not For Navigation

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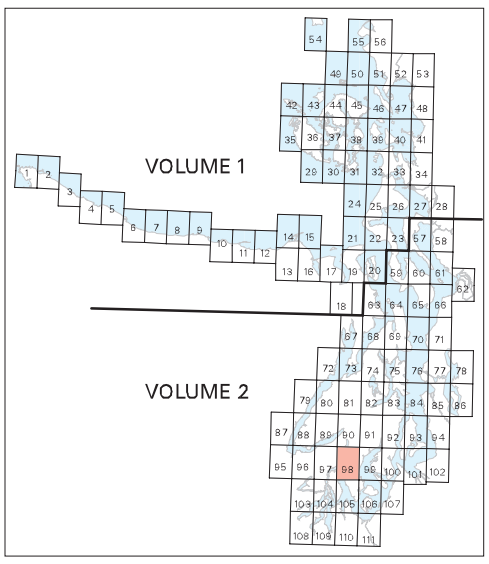

Vaughn ESI-98

Puget Sound and the Strait of Juan de Fuca: ESIMAP 98

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
253	Bald eagle	T	T		X	X	X	X	X	X							JAN-JUL	FEB-MAR	MAR-APR	JAN-JUL
254	Great blue heron					X	X	X	X	X							FEB-JUL	-	-	-
255	Seabirds				X	X	X	X	X	X	X	X	X	X	X		APR-NOV	APR-AUG	MAY-OCT	JUN-NOV
257	Pigeon guillemot						X	X	X	X	X						MAY-AUG	MAY-JUL	JUN-AUG	JUL-AUG
264	Western grebe	C			X	X	X	X						X	X	X	-	-	-	-
268	Scoters				X	X	X	X	X			X	X	X	X	X	-	-	-	-
320	Goldeneye				X	X	X	X							X	X	-	-	-	-
327	Goldeneye				X	X	X	X							X	X	-	-	-	-
	Scoters				X	X	X	X	X			X	X	X	X	X	-	-	-	-
329	Goldeneye				X	X	X	X							X	X	-	-	-	-
	Pigeon guillemot						X	X	X	X	X	X					MAY-AUG	MAY-JUL	JUN-AUG	JUL-AUG
	Scoters				X	X	X	X	X			X	X	X	X	X	-	-	-	-
337	Bufflehead				X	X	X	X							X	X	-	-	-	-
351	Bufflehead				X	X	X	X							X	X	-	-	-	-
	Scoters				X	X	X	X	X			X	X	X	X	X	-	-	-	-
381	Bufflehead				X	X	X	X							X	X	-	-	-	-
	Goldeneye				X	X	X	X							X	X	-	-	-	-
445	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUN-SEP
	Pigeon guillemot						X	X	X	X	X	X					MAY-AUG	MAY-JUL	JUN-AUG	JUL-AUG
	Scoters				X	X	X	X	X			X	X	X	X	X	-	-	-	-
542	Bufflehead				X	X	X	X							X	X	-	-	-	-
	Goldeneye				X	X	X	X							X	X	-	-	-	-
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUN-SEP
	Scoters				X	X	X	X	X			X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
15	Pacific herring	C	C		X	X	X	X	X	X							JAN-JUN	-	-	-	-
16	Pacific herring	C	C		X	X	X	X	X	X							-	-	-	-	JAN-JUN
28	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
29	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
69	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
80	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
81	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
110	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
111	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
125	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
187	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
236	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
252	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chinook salmon (spring)	C	T				X	X	X	X	X	X	X	X			JUL-OCT	-	-	-	MAR-OCT
	Chinook salmon (summer)	C	T							X	X	X	X	X	X		AUG-NOV	-	-	-	JUN-NOV
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
668	Rock sole				X	X	X	X							X	X	NOV-APR	-	-	-	-
	Surf smelt				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	-
669	Surf smelt				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	-
670	Pacific sand lance				X	X									X	X	NOV-FEB	-	-	-	-
	Surf smelt				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	-
671	Pacific sand lance				X	X									X	X	NOV-FEB	-	-	-	-
	Rock sole				X	X	X	X							X	X	NOV-APR	-	-	-	-
	Surf smelt				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	-
673	Rock sole				X	X	X	X							X	X	NOV-APR	-	-	-	-

INVERTEBRATE:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
680	Hardshell clams				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
681	Pacific oyster				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
683	Geoduck				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
147	NORTH BAY		
154	PICKERING PASSAGE		
166	REACH ISLAND		
167	ROCKY BAY		
175	SPENCER COVE		
176	STRETCH ISLAND		
180	WEST KEY PENINSULA		

BOAT RAMP:

HUN#	Name	Contact	Phone
530	FAIRHARBOR BOAT RAMP	GRAPEVIEW, PORT OF	360/275-6610
551	HOME BOAT RAMP	PIERCE COUNTY PARKS & REC	253/798-4177
561	JACKSON LAKE (WDFW)	WASHINGTON DEPARTMENT OF FISH AND WILDLIFE	360/902-2200
575	LAKEBAY MARINA	LAKEBAY MARINA	253/884-3350
693	VAUGHN BAY	PIERCE COUNTY	253/798-7777

COMMERCIAL FISHING:

HUN#	Name	Contact	Phone
716	DEMERSAL GROUNDFISH FISHING		

MARINA:

HUN#	Name	Contact	Phone
1108	PENROSE POINT STATE PARK	STATE PARKS	360/902-8500

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.

Puget Sound and the Strait of Juan de Fuca: ESIMAP 98 (cont.)

HUMAN USE RESOURCES: (cont.)

PARK:

HUN#	Name	Contact	Phone
1226	HALEY PROPERTY	DEB PETERSEN, WASHINGTON STATE PARKS	360/902-8634
1228	HARSTINE ISLAND	DEB PETERSEN, WASHINGTON STATE PARKS	360/902-8634
1263	PENROSE POINT	DEB PETERSEN, WASHINGTON STATE PARKS	360/902-8634
1284	STRETCH POINT	DEB PETERSEN, WASHINGTON STATE PARKS	360/902-8634

RECREATIONAL FISHING:

HUN#	Name	Contact	Phone
1296	DEMERSAL GROUNDFISH FISHING		
1299	SALMON FISHING		

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