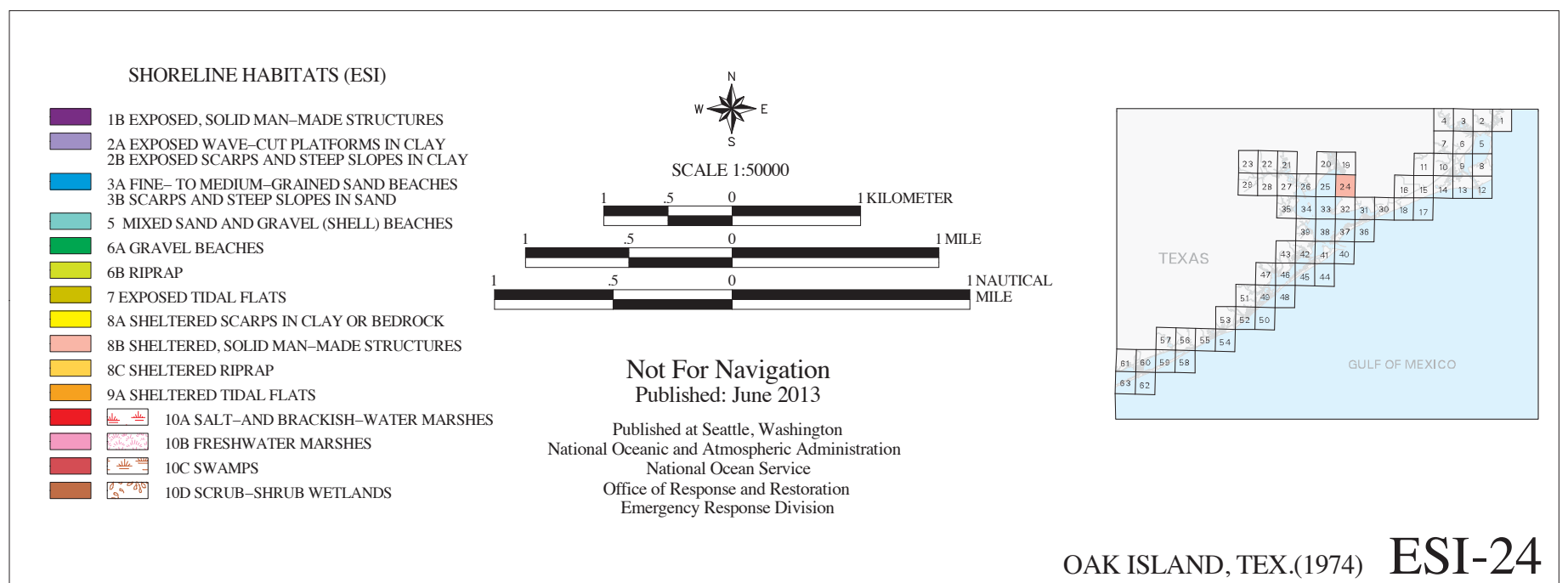
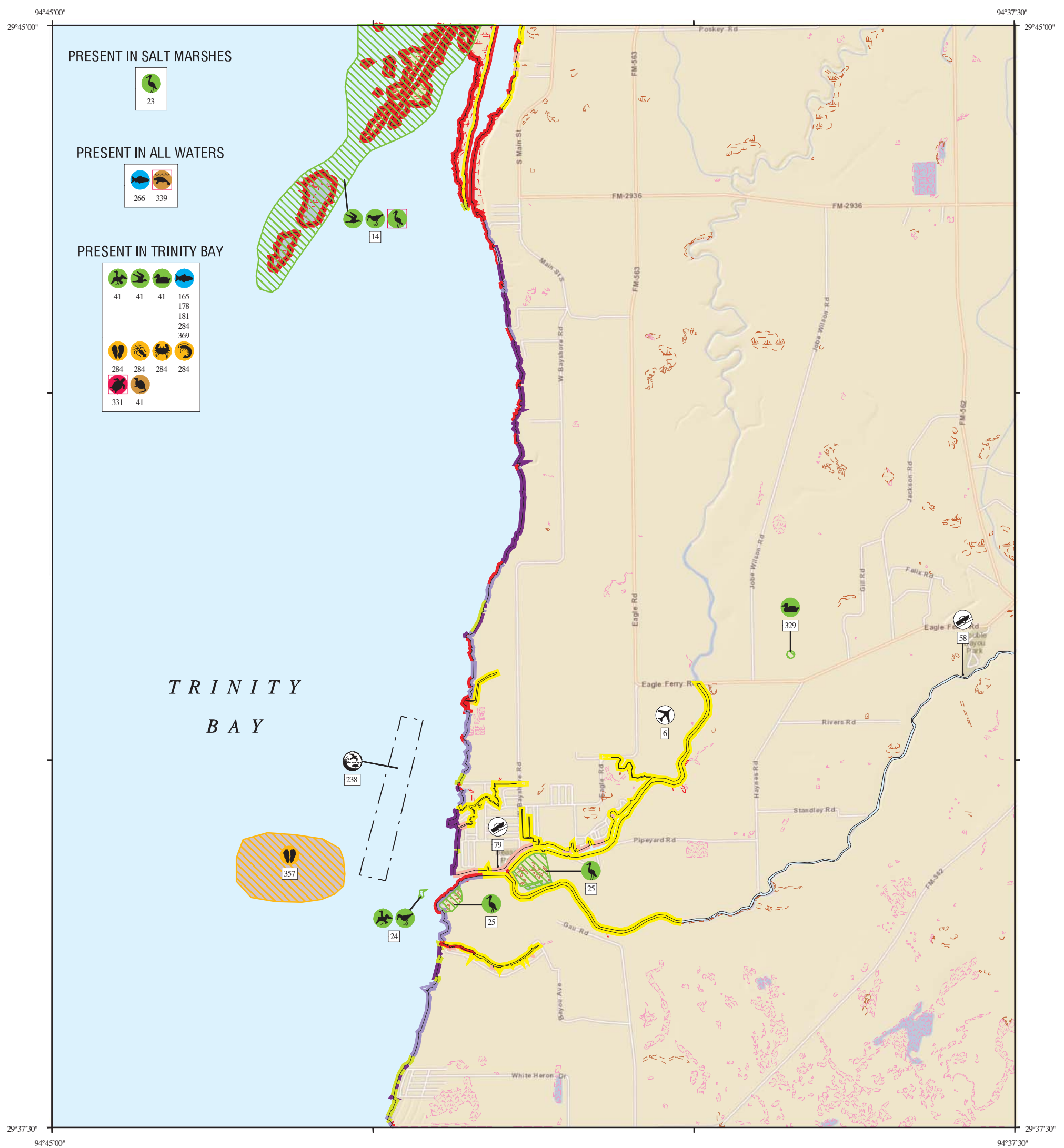


ENVIRONMENTAL SENSITIVITY INDEX MAP



Upper Texas Coast: ESIMAP 24

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
14	American avocet	100S	X X X X X X X X X X X X	-	MAR-APR JUL-NOV	-
	American oystercatcher	PRESENT	X X X X X X X X X X X X	-	-	-
	Black skimmer	100S	X X X X X X X X X X X X	-	-	-
	Black-bellied plover	100S	X X X X X X X X X X X X	-	MAR-MAY JUL-NOV	-
	Dowitchers	1000S	X X X X X X X X X X X X	-	MAR-MAY JUL-NOV	-
	Dunlin	1000S	X X X X X X X X X X X X	-	-	-
	Killdeer	10S	X X X X X X X X X X X X	-	DEC-MAR	-
	Long-billed curlew	PRESENT	X X X X X X X X X X X X	-	FEB-APR JUN-NOV	-
	Marbled godwit	100S	X X X X X X X X X X X X	-	MAR-APR JUL-NOV	-
	Reddish egret	T PRESENT	X X X X X X X X X X X X	-	-	-
	Ruddy turnstone	PRESENT	X X X X X X X X X X X X	-	-	-
	Shorebirds	1000S	X X X X X X X X X X X X	-	-	-
	Western sandpiper	1000S	X X X X X X X X X X X X	-	FEB-MAY JUL-NOV	-
	Willet	100S	X X X X X X X X X X X X	-	APR-APR AUG-AUG	-
	Yellowlegs	100S	X X X X X X X X X X X X	-	MAR-MAY JUL-NOV	-
23	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	-	-	-
	Little blue heron		X X X X X X X X X X X X	-	-	-
	Wading birds		X X X X X X X X X X X X	-	-	-
24	American oystercatcher		X X X X X X X X X X X X	-	-	-
	Brown pelican		X X X X X X X X X X X X	-	-	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
25	Marsh birds		X X X X X X X X X X X X	-	-	-
41	Black skimmer		X X X X X X X X X X X X	-	-	-
	Cormorants		X X X X X X X X X X X X	-	-	-
	Diving birds		X X X X X X X X X X X X	-	-	-
	Diving ducks		X X X X X X X X X X X X	-	-	-
	Grebes		X X X X X X X X X X X X	-	-	-
	Gulls		X X X X X X X X X X X X	-	-	-
	Loons		X X X X X X X X X X X X	-	-	-
	Pelicans		X X X X X X X X X X X X	-	-	-
	Terns		X X X X X X X X X X X X	-	-	-
329	Greater white-fronted goose		X X X X X X X X X X X X	-	-	-
	Snow goose		X X 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
165	Atlantic sharpnose shark		X X X X X X X X X X X X	JUN-JUN	MAY-JUN	JUN-OCT	-	APR-OCT
178	Bull shark	ABUNDANT	X X X X X X X X X X X X	-	MAY-AUG	MAY-AUG	APR-NOV	JAN-DEC
181	Blacktip shark		X X X X X X X X X X X X	MAY-JUN	MAY-JUN	MAY-NOV	MAR-NOV	MAY-JUN
266	Tarpon	RARE	X X X X X X X X X X X X	-	-	-	MAR-NOV	-
284	Alligator gar	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Atlantic bumper	RARE	X X X X X X X X X X X X	-	-	-	-	AUG-SEP
	Atlantic croaker	HIGHLY ABUNDANT	X X X X X X X X X X X X	-	-	JAN-JUN	JAN-DEC	JAN-DEC
	Bay anchovy	ABUNDANT	X X X X X X X X X X X X	MAR-NOV	MAR-NOV	MAR-NOV	FEB-NOV	JAN-DEC
	Bay whiff	ABUNDANT	X X X X X X X X X X X X	-	-	-	MAY-AUG	MAY-AUG
	Black drum	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Blue catfish	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Crevalle jack	COMMON	X X X X X X X X X X X X	-	-	-	MAR-NOV	-
	Gafftopsail catfish	COMMON	X X X X X X X X X X X X	APR-MAY	-	-	APR-OCT	APR-OCT
	Gizzard shad	COMMON	X X X X X X X X X X X X	-	-	-	-	JAN-DEC
	Gulf butterflyfish	RARE	X X X X X X X X X X X X	-	-	-	-	-
	Gulf killifish	RARE	X X X X X X X X X X X X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Gulf menhaden	HIGHLY ABUNDANT	X X X X X X X X X X X X	-	-	-	JAN-DEC	APR-DEC
	Hardhead catfish	ABUNDANT	X X X X X X X X X X X X	MAY-AUG	MAY-SEP	MAY-SEP	JUN-OCT	JAN-DEC
	Pinfish	COMMON	X X X X X X X X X X X X	-	-	-	MAR-SEP	-
	Red drum	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sand seatrout	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead	COMMON	X X X X X X X X X X X X	-	-	-	JUN-JUN SEP-MAR	JAN-DEC
	Silver perch	RARE	X X X X X X X X X X X X	MAY-SEP	MAY-SEP	MAY-SEP	OCT-OCT	JAN-DEC
	Silversides	COMMON	X X X X X X X X X X X X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Smallmouth buffalo		X X X X X X X X X X X X	-	-	-	-	JAN-DEC
	Southern flounder	ABUNDANT	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Southern kingfish	COMMON	X X X X X X X X X X X X	-	-	-	AUG-NOV	-
	Spanish mackerel	COMMON	X X X X X X X X X X X X	-	-	-	SEP-OCT	SEP-OCT
	Spot	HIGHLY ABUNDANT	X X X X X X X X X X X X	-	-	-	MAR-NOV	JAN-DEC
	Spotfin mojarra	RARE	X X X X X X X X X X X X	-	-	-	-	-
	Spotted gar	COMMON	X X X X X X X X X X X X	APR-MAY	APR-MAY	-	JAN-DEC	JAN-DEC
	Spotted seatrout	COMMON	X X X X X X X X X X X X	-	-	MAR-JUL	AUG-NOV	JAN-DEC
	Striped mullet	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	White mullet	COMMON	X X X X X X X X X X X X	-	-	-	APR-OCT	-
369	Spinner shark		X X X X X X X X X X X X	MAY-JUN	MAY-JUN	MAY-JUL	MAY-OCT	MAY-OCT

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
284	Atlantic rangia	ABUNDANT	X X X X X X X X X X X X	MAR-OCT	-	MAR-OCT	JAN-DEC	JAN-DEC
	Blue crab	HIGHLY ABUNDANT	X X X X X X X X X X X X	MAR-OCT	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC
	Brief squid	RARE	X X X X X X X X X X X X	JUN-NOV	JUN-NOV	JUN-NOV	JUN-NOV	JUN-NOV
	Brown shrimp	COMMON	X X X X X X X X X X X X	-	-	FEB-APR	APR-DEC	-
	Grass shrimp	ABUNDANT	X X X X X X X X X X X X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	White shrimp	HIGHLY ABUNDANT	X X X X X X X X X X X X	-	-	MAY-OCT	MAY-DEC	JAN-DEC
357	Eastern oyster	REEF	X X X X X X X X X X X X	MAR-DEC	MAR-DEC	-	-	JAN-DEC

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
339	West Indian manatee	E E VERY RARE	X X X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
331	Kemp's ridley sea turtle	E E COMMON	X X X X X X X X X X	-	-	-	APR-NOV	-

TERRESTRIAL MAMMAL:

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

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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.

Upper Texas Coast: ESIMAP 24 (cont.)

HUMAN USE RESOURCES:

AIRPORT:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
6	EAGLE AIR		

BOAT RAMP:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
58	DOUBLE BAYOU PARK		
79	JOB BEASON PARK		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
238	LONE OAK SPOIL & SHELL	HOUSTON AUDUBON (RICAHRD GIBBONS)	713/932-1639

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.