

# Upper Coast of Texas

## Oil Spill Planning and Response Atlas

### Data Supplement



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## Table of Contents

<u>Map Title</u>	<u>Page #</u>	<u>Map Title</u>	<u>Page #</u>
Sabine Lake:		Galveston Bay:	
Orange Map #1		Anahuac Map #19	
Resource Data	1	Resource Data	55
Priority Protection Area Data	2	Priority Protection Area Data	57
Orangefield Map #2		Cove Map #20	
Resource Data	3	Resource Data	59
Priority Protection Area Data	4	Priority Protection Area Data	60
Terry Map #3		Highlands Map #21	
Resource Data	5	Resource Data	61
Priority Protection Area Data	6	Priority Protection Area Data	62
Beaumont East Map #4		Jacinto City Map #22	
Resource Data	7	Resource Data	63
West of Greens Bayou Map #5		Settegast Map #23	
Resource Data	9	Resource Data	65
Priority Protection Area Data	11	Oak Island Map #24	
Port Arthur North Map #6		Resource Data	67
Resource Data	13	Priority Protection Area Data	68
Priority Protection Area Data	14	Umbrella Point Map #25	
Port Acres Map #7		Resource Data	69
Resource Data	16	Morgans Point Map #26	
West of Johnsons Bayou Map #8		Resource Data	71
Resource Data	18	Priority Protection Area Data	73
Port Arthur South Map #9		La Porte Map #27	
Resource Data	19	Resource Data	75
Priority Protection Area Data	21	Priority Protection Area Data	76
Big Hill Bayou Map #10		Pasadena Map #28	
Resource Data	23	Resource Data	77
Priority Protection Area Data	25	Park Place Map #29	
Alligator Hole Marsh Map #11		Resource Data	79
Resource Data	28	High Island Map #30	
Texas Point Map #12		Resource Data	81
Resource Data	29	Priority Protection Area Data	83
Priority Protection Area Data	31	Frozen Point Map #31	
Sabine Pass Map #13		Resource Data	85
Resource Data	33	Priority Protection Area Data	86
Priority Protection Area Data	35	Lake Stephenson Map #32	
Clam Lake Map #14		Resource Data	89
Resource Data	37	Priority Protection Area Data	90
Priority Protection Area Data	39	Smith Point Map #33	
Star Lake Map #15		Resource Data	91
Resource Data	41	Priority Protection Area Data	92
Priority Protection Area Data	43	Bacliff Map #34	
Whites Ranch Map #16		Resource Data	93
Resource Data	45	Priority Protection Area Data	94
Priority Protection Area Data	46	League City Map #35	
South of Star Lake Map #17		Resource Data	95
Resource Data	47	Priority Protection Area Data	97
Priority Protection Area Data	48	Caplen Map #36	
Mud Lake Map #18		Resource Data	99
Resource Data	49	Priority Protection Area Data	100
Priority Protection Area Data	51		

## Table of Contents (Continued)

<u>Map Title</u>	<u>Page #</u>	<u>Map Title</u>	<u>Page #</u>
Galveston Bay Continued:		East Matagorda Bay:	
Flake Map #37		Oyster Creek Map #51	
Resource Data	101	Resource Data	151
Priority Protection Area Data	103	Priority Protection Area Data	152
Port Bolivar Map #38		Freeport Map #52	
Resource Data	105	Resource Data	153
Priority Protection Area Data	106	Jones Creek Map #53	
Texas City Map #39		Resource Data	155
Resource Data	107	Cedar Lakes East Map #54	
Priority Protection Area Data	110	Resource Data	157
The Jetties Map #40		Cedar Lakes West Map #55	
Resource Data	111	Resource Data	159
Priority Protection Area Data	113	Sargent Map #56	
Galveston Map #41		Resource Data	161
Resource Data	115	Lake Austin Map #57	
Priority Protection Area Data	118	Resource Data	163
Virginia Point Map #42		Brown Cedar Cut Map #58	
Resource Data	119	Resource Data	165
Priority Protection Area Data	121	Dressing Point Map #59	
Hitchcock Map #43		Resource Data	167
Resource Data	123	Matagorda Map #60	
Priority Protection Area Data	124	Resource Data	169
South of Galveston Map #44		Palacios North East Map #61	
Resource Data	125	Resource Data	171
Lake Como Map #45		Matagorda South West Map #62	
Resource Data	127	Resource Data	173
Priority Protection Area Data	130	Palacios South East Map #63	
Sea Isle Map #46		Resource Data	175
Resource Data	131		
Priority Protection Area Data	133		
Hoskins Mound Map #47			
Resource Data	135		
Priority Protection Area Data	137		
San Luis Pass Map #48			
Resource Data	139		
Christmas Point Map #49			
Resource Data	141		
Priority Protection Area Data	145		
South of Christmas Point Map #50			
Resource Data	147		

# Sabine Lake

## Data Sheets



## HUMAN USE RESOURCES

## Boat Ramps

## RARNUM NAME

H675 Orange Yacht Club  
H676 River Road Marina  
H677 Lottie's Landing

## Marinas

## RARNUM NAME

## ADDRESS

## PHONE

H156 Sabine Yacht Basin 319 Meyers (409) 886-7085  
Orange 77630  
H190 Allen's Boat Storage 1802 Mississippi (409) 886-8533  
Orange 77630

## Water Intake Points

## RARNUM OWNER

## TYPE

H054 E I Dupont de Nemours & Co. 6

## BIOLOGICAL RESOURCES

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
239	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	
	Common merganser				X	X	X	X					X	X	X	-	-	-	-	
253	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	
255	Swallow-tailed kite	S	T					X	X	X	X	X	X				-	-	-	
259	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	
260	Swallow-tailed kite	S	T					X	X	X	X	X	X				-	-	-	
262	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	
	Osprey	S	SC		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	-	-	-	
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
269	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
271	Swallow-tailed kite	S	T					X	X	X	X	X	X				-	-	-	

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING	
239	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-
253	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-
259	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-
262	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
262	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
262	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
272	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

## Plants/Communities

RARNUM	NAME	S/F	T/E
239	Banana water lily		
253	Arrowhead		
255	Bald cypress		
	Tupelo		
	Arrowhead		
259	Bulrush		
	Arrowhead		
260	Salt meadow cordgrass (wiregrass)		
	Arrowhead		
	Bull-tongue		
262	Spike-rushes		
	Salt meadow cordgrass (wiregrass)		
269	Tupelo		
	Bald cypress		
271	Tupelo		
	Bulrush		
	Bald cypress		
	Salt meadow cordgrass (wiregrass)		
770	Smooth Blue-star	F	3C

# ORANGE, LA-TX

# Map # 1

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoint at Route 90/IH-10 bridge over Little Cypress Bayou can be boomed to protect Polygon 1 from spills in Little Cypress Bayou.</i>		
<i>Pinchpoint at mouth of Little Cypress Bayou can be boomed to protect Polygons 1, 2, and 3 from spills in Sabine River.</i>		
1	Low	<b>Swamp north of Orange.</b> Recreational fishing (high), swamp (high).
2	Medium	<b>Swamp north of Route 90/IH10.</b> Birds (medium), recreational fishing (medium), swamp (high).
3	Medium	<b>Swamp south of Route 90/IH10.</b> Birds (medium), recreational fishing (medium), swamp (high). Proposed Blue Elbow Swamp WMA.
<i>Pinchpoint at mouth of unnamed cut can be boomed to protect Polygon 18 and parts of Polygons 4 and 5 from spills in Sabine River.</i>		
4	Low	<b>Marsh east of Sabine River, north of power lines.</b> Birds (medium), wetlands (high).
<i>Pinchpoint at mouth of canal north of Phoenix Lake Oil Field can be boomed to protect Polygon 19 and part of Polygon 5 from spills in Sabine River.</i>		
5	Low	<b>East shore of Sabine River.</b> Birds (medium), wetlands (high).
6	Low	<b>Marsh north of power lines.</b> Birds (medium), wetlands (high).
<i>Pinchpoint at mouth of Phoenix Lake can be boomed to protect Polygon 7 from spills in the Sabine River, or to protect Sabine River from spills in Phoenix Lake Oil Field.</i>		
7	Low	<b>Phoenix Lake Oil Field.</b> Birds (medium), wetlands (high).
8	Low	<b>Cutoff Island.</b> Birds (medium), wetlands (high)
<i>Pinchpoints at (1) mouth of canal south of West Orange Reservoir, and (2) mouth of Cow Bayou can be boomed to protect Polygons 9 and 30 from spills in Sabine River.</i>		
9	Low	<b>Lower Cow Bayou and marsh to north.</b> Birds (medium), wetlands (high). Continued on Orangefield quad.
<i>Several bayous along north shore of ICWW can potentially be boomed to protect Polygon 10 from spills in ICWW.</i>		
10	Low	<b>Marsh north of ICWW, east of Perry Ridge.</b> Birds (medium), wetlands (high).
11	Low	<b>Tupelo Swamp - Lost Lake area.</b> Wetlands (high)
12	Low	<b>Upper Webb Gully.</b> Wetlands (high).
13	Low	<b>Marsh south of Big Island.</b> Wetlands (high).
<i>Pinchpoints at (1) mouth of Adams Bayou, and (2, 3, 4) along meanders of Adams Bayou can be boomed to protect Polygons 14 and 21 from spills in Sabine River.</i>		
14	Low	<b>Marsh southeast of Cove.</b> Wetlands (high).
15	Low	<b>South of ICWW, west of Perry Ridge.</b> Wetlands (high).
16	Low	<b>Perry Ridge.</b> Wetlands (high).
17	Low	<b>South of Perry Ridge.</b> Wetlands (high).
18	Medium	<b>Marsh north of power lines.</b> Birds (medium), nursery (medium), wetlands (high).
19	Medium	<b>Marsh northeast of Phoenix Lake Oil Field.</b> Birds (medium), nursery (low), wetlands (high).
<i>Pinchpoint at bayou on south shore of Pavell Island can be boomed to protect Polygon 20 from spills in Sabine River.</i>		
20	Medium	<b>Pavell Island.</b> Birds (medium), nursery (low), wetlands (high).
<i>Pinchpoint at Route 1006 bridge over Adams Bayou can be blocked to protect northern part of Polygon 21 from spills in lower Adams Bayou.</i>		
21	Low	<b>Adams Bayou.</b> Swamp (high).
<i>Pinchpoints at (1) mouth of Conway Bayou and (2) unnamed bayou on north shore of ICWW can be boomed to protect Polygon 22 from spills in Sabine River or ICWW. Other small bayous along ICWW can also be boomed.</i>		
22	High	<b>Marsh east of Phoenix Lake Oil Field, Conway Bayou drainage.</b> Birds (medium), nursery (low), wetlands (high).
<i>Pinchpoint at mouth of Burton Shell Slip can be boomed to protect Polygon 23 from spills in Sabine River.</i>		
<i>Pinchpoint at mouth of cut north of Black Bayou can be boomed to protect Polygon 23 from spills in Black Bayou.</i>		
23	High	<b>Marsh east of Sabine River, south of ICWW.</b> Birds (high), nursery (high), wetlands (high).
24	High	<b>Black Bayou Oil Field and surrounding marsh.</b> Boat access by Black Bayou. Birds (high), nursery (high), wetlands (high).
25	High	<b>Marsh north of Black Bayou, south of Sabine River.</b> Birds (high), nursery (medium), wetlands (high).
26	Medium	<b>Marsh west of Perry Ridge.</b> Nursery (high), wetlands (high).
27	Medium	<b>Marsh reentrant in Perry Ridge.</b> Nursery (high), wetlands (high).
28	Medium	<b>Southern margin of Perry Ridge.</b> Nursery (high), wetlands (high).
29	Medium	<b>Area of unnamed cut south of Perry Ridge.</b> Birds (high), wetlands (high).
30	Low	<b>Marsh south of West Orange Reservoir.</b> Wetlands (high).
31	Low	<b>Canal in north shore of Pavell Island.</b> Wetlands (high).

# ORANGEFIELD

# Map #2

## HUMAN USE RESOURCES

### Boat Ramps

#### RARNUM NAME

H674 LeBlanc's  
H678 Toup's Marina  
H679 Firestone Club  
H682 Carpenter Rd. at Cow Bayou

## BIOLOGICAL RESOURCES

Birds																				
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
117	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
118	Osprey	S	SC		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	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
122	Osprey	S	SC		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	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
127	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X					X	X	X	X	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	X	-	-	-	-
	Wood duck				X	X	X	X					X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
117	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
118	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
122	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
127	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
116	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
124	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
116	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
124	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

### Plants/Communities

RARNUM	NAME	S/F	T/E
117	Palmetto		
118	Bulrush		
	Common reed		
122	Salt meadow cordgrass (wiregrass)		
769	Long-sepaled false dragon-head	F	C2



# ORANGEFIELD

# Map # 2

Number	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoints at (1) IH10-IH90 bridge over Adams Bayou and (2) Route 358 bridge over Adams Bayou can be boomed to control spills in Adams Bayou.</i>		
1	Low	<b>Adams Bayou.</b> Bottomland hardwoods (high). Continued on Orange quad
<i>Pinchpoint at Route 105 bridge over Cow Bayou can be boomed to protect Polygon 2 from spills in lower Cow Bayou.</i>		
<i>Pinchpoints at mouth of Cow Bayou on Sabine River can be boomed to protect Polygon 2-21 from spills in Sabine River.</i>		
<i>Pinchpoint at Route 87 bridge over Cow Bayou can be blocked to protect Polygons 2,3, and 4 from spills in Sabine River. 300 yards of hard boom.</i>		
2	Low	<b>West shore of Cow Bayou, Marie Gully, upper Cow Bayou.</b> Bottomland hardwoods (high).
3	Low	<b>East shore of upper Cow Bayou.</b> Bottomland hardwoods (high).
4	Medium	<b>Cow Bayou northeast of Route 87.</b> Birds (high), bottomland hardwoods (high).
<i>Numerous pinchpoints along Cow Bayou meanders and at mouth of Coon Bayou can be boomed to control spills in Cow Bayou and protect Polygons 5-11, 17 and 18. Swing bridge at Route 1442 can be blocked with 200 yards of hard boom.</i>		
5	Low	<b>Coon Bayou, gully north of Cow Bayou.</b> Wetlands (high).
6	Low	<b>North shore of Cow Bayou, east of Route 87.</b> Wetlands (high).
7	Low	<b>Cow Bayou marsh perimeter, west of Round Bunch Road.</b> Wetlands (high).
8	Low	<b>Cow Bayou gullies north of Mule Island.</b> Wetlands (high).
9	Low	<b>South shore of Cow Bayou, east of Route 87.</b> Wetlands (high).
10	Low	<b>South shore of Cow Bayou, east of Old Lakeshore Road.</b> Wetlands (high).
11	Low	<b>Cow Bayou marsh margin northwest of Shell Canal.</b> Wetlands (high).
12	Low	<b>Southeast shore of Sabine River.</b> Wetlands (high).
13	Low	<b>Northwest margin of Old River Bayou marsh.</b> Wetlands (high).
<i>Pinchpoint at Bridge City Reservoir can be boomed to protect parts of Polygon 14 and Polygon 33 from spills along Route 87 or in canals. Several large box culverts under Route 87 can be blocked to control spills in Polygons 14, 23, or 24. Accessible to boats by road ditch.</i>		
14	Low	<b>Bridge City Reservoir, canals, and margin of Old River Bayou marsh, east and west of Route 87.</b> Wetlands (high).
15	Low	<b>Northern margin of Old River Bayou marsh.</b> Wetlands (high).
16	Low	<b>Northeastern margin of Old River Bayou marsh.</b> Wetlands (high).
17	Medium	<b>Cow Bayou at Mule Island and to west.</b> Birds (medium), wetlands (high).
18	Medium	<b>Lower Cow Bayou, south of Mule Island.</b> Birds (medium), nursery (medium), wetlands (medium).
19	Medium	<b>Cow Bayou marsh, south of West Orange.</b> Birds (medium), nursery (medium), wetlands (medium). Continued on Orange quad.
20	Low	<b>Shell Canal.</b> Nursery (medium), wetlands (high).
21	Low	<b>Cow Bayou marsh, south of West Orange.</b> Birds (medium), nursery (medium).
22	Medium	<b>Marsh west of Bridge City.</b> Birds (high), wetlands (high). Continued on Terry quad.
23	High	<b>Old River Bayou marsh north of Route 87.</b> Birds (high), nursery (medium), wetlands (high).
24	High	<b>Old River Bayou marsh southwest of Bridge City.</b> Birds (high), nursery (medium), wetlands (high). Continued on West of Greens Bayou quad.
25	Medium	<b>Northern margin of Old River Bayou marsh.</b> Birds (high), wetlands (high).
26	Medium	<b>Northern margin of Old River Bayou marsh.</b> Birds (high), wetlands (high).
27	Medium	<b>Northern margin of Old River Bayou marsh.</b> Birds (high), wetlands (high).
28	Medium	<b>Northern margin of Old River Bayou marsh.</b> Nursery (high), wetlands (high).
29	Medium	<b>East margin of Old River Bayou.</b> Nursery (high), wetlands (high).
30	High	<b>Old River Bayou marsh.</b> Birds (high), nursery (high), wetlands (high). Continued on West of Greens Bayou quad.
31	Low	<b>Hickory River marsh.</b> Birds (high). Continued on West of Greens Bayou quad.
32	High	<b>Southeast of Sabine River.</b> Birds (high), nursery (medium), wetlands (medium). Continued on Orange quad. Accessible to boats by Black Bayou or Sabine River at Sabine Island (West of Greens Bayou quad).
33	Medium	<b>Marsh west of Bridge City.</b> Birds (high), nursery (high).
34	Low	<b>Western meanders of Adams Bayou.</b> Swamp (high). Continued on Orange quad.
35	Low	<b>Western meanders of Adams Bayou.</b> Swamp (high). Continued on Orange quad.
36	Medium	<b>Marsh north of Hickory Cove.</b> Wetlands (high), birds (high). Continued on West of Greens Bayou quad.
37	Medium	<b>Marsh southwest of canal.</b> Wetlands (high), birds (medium).

## HUMAN USE RESOURCES

## Water Intake Points

RARNUM	OWNER	TYPE
H080	Union Oil of California	6
H081	Independent Refining Corp.	6

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D
22	River otter				X	X	X	X	X	X	X	X	X	X	X	X
29	River otter				X	X	X	X	X	X	X	X	X	X	X	X

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
22	Rails				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	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
29	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
29	Largemouth bass				X	X	X	X	X	X	X	X	X	X	X	X	FEB-APR	MAR-MAY
	White perch				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
29	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

# TERRY

# Map # 3

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Low	<b>Lower Anderson Gully and area east of Neches River.</b> Wetlands (high).
2	Low	<b>Marsh south of North Port Neches Oil and Gas Field.</b> Wetlands (high).
3	Low	<b>North margin of Bessie Heights Marsh.</b> Wetlands (high).
<i>Pinchpoint at (1) Grays Bayou, (2) canal west of Grays Bayou, (3) Bessie Heights Canal, and (4) canal to south can be boomed to protect Polygon 4 from spills in Neches River, or to protect Neches River from spills in Bessie Heights Oil Field.</i>		
4	High	<b>Bessie Heights Oil and Gas Field and surrounding marsh.</b> Includes Lower Neches WMA. Birds (high), nursery (high), wetlands (high). Abundant fish, crab. Continued on Port Arthur North and Orangefield quads.
5	Medium	<b>Margin of Bessie Heights Marsh, Thomas Cemetery to Gum Island.</b> Birds (high), wetlands (high). Part of Lower Neches WMA.
6	Low	<b>Reservoir southeast of Bessie Heights.</b> Birds (high).

# BEAUMONT EAST

Map #4

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM NAME

H680 Near GSU Neches Power Plant

### Marinas

RARNUM NAME

ADDRESS

PHONE

H165 Beaumont Yacht Club 1500 Pine St (409) 832-1456  
Beaumont 77703

### Water Intake Points

RARNUM OWNER

TYPE

H076 Trinity Industries Inc. 6  
H077 Mobil Oil Corp. 6  
H078 PD Glycol Limited Partnership 1  
H079 Gulf States Utilities 1

## BIOLOGICAL RESOURCES

### Plants/Communities

RARNUM NAME

S/F T/E

770 Smooth Blue-star F 3C

# WEST OF GREENS BAYOU

# Map #5

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H672	Rainbow Ridge
H673	Bailey's Fish Camp
H684	Gulf States Canal

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H164	Rainbow Marina	P.O. Box 357 Groves	(409) 962-9578

### Water Intake Points

RARNUM	OWNER	TYPE
H053	Gulf States Utilities Co.	6

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D
653	River otter				X	X	X	X	X	X	X	X	X	X	X	X

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
678	Gadwall			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Teals				X	X	X	X					X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
679	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-
682	Black skimmer			100	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
685	Rails				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	-	-	-	-
	Green-winged teal			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	X	-	-	-	-
	Teals				X	X	X	X					X	X	X	X	-	-	-	-
686	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
689	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
690	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
698	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
699	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-
701	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	American wigeon				X	X	X	X					X	X	X	X	-	-	-	-
705	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Caspian tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	MAR-JUN	MAR-JUL
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
653	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
690	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
701	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
771	Texas diamondback terrapin	F	C2															

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
653	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
678	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
681	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
685	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
686	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

# WEST OF GREENS BAYOU CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
690	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
704	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
653	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
679	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
681	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
686	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
690	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
699	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
704	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

### Plants/Communities

RARNUM	NAME	S/F	T/E
678	Salt meadow cordgrass (wiregrass)		
685	Salt meadow cordgrass (wiregrass)		
689	Bulrush		
699	Salt meadow cordgrass (wiregrass)		
701	Salt meadow cordgrass (wiregrass)		
	Spike-rushes		

# WEST OF GREENS BAYOU

# Map # 5

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	Medium	<b>Marsh west of Route 87, north of Neches River.</b> Birds (medium), wetlands (high).
2	Low	<b>Marsh east of Route 87.</b> Birds (low), wetlands (high).
<i>Pinchpoint at Route 87 crossing can be blocked polygon 3 and surrounding marsh from spills along highway or in canals.</i>		
3	Low	<b>Canals parallel to Route 87.</b> Birds (high). Continued on Port Arthur North quad.
4	Low	<b>Marsh northwest of Sabine River.</b> Birds (high). Continued on Orangefield quad.
5	Medium	<b>Canals and marsh parallel to Route 87.</b> Birds (high), wetlands (high). Continued on Port Arthur North quad.
<i>Pinchpoint under road along Hickory Cove can be blocked to protect Polygon 6 from spills in Hickory Cove or ICWW.</i>		
<i>Two pinchpoints under road east of Old River Bayou can be blocked to control spills between Polygons 6 and 12.</i>		
6	Medium	<b>Marsh west of Hickory Cove.</b> Birds (high), wetlands (high). Continued on Orangefield quad.
7	Medium	<b>Little West Pass, mouth of Hickory River.</b> Birds (high), wetlands (high).
8	Medium	<b>Marsh east of Coffee Ground Cove.</b> Sabine NWR. Birds (high), wetlands (high).
9	Medium	<b>Pines Ridge area and marsh east of Grays Ditch.</b> Leveed area. Sabine NWR. Birds (high), wetlands (high).
10	Medium	<b>Leveed area south of Sabine Neches Canal.</b> Birds (high), wetlands (high). <i>Note: Leveed area (polygon 10) south of seawall, shown as open water on USGS base map, is now marsh.</i>
<i>Pinchpoint at mouth of canal can be boomed to protect Polygon 11 and part of 12 from spills in Old River Cove.</i>		
11	Medium	<b>Canal north of Old River Cove.</b> Bird (high), nursery (high).
<i>Pinchpoint at mouth of unnamed canal north of Old River Cove can be boomed to protect Polygon 12 from spills in Old River Cove.</i>		
12	High	<b>Old River Bayou and marsh to west.</b> Birds (high), nursery (high), wetlands (high). Continued on Orangefield quad.
<i>Pinchpoints at (1) mouth of Black Bayou and (2, 3) mouths of unnamed bayous can be boomed to protect Polygons 13 from spills in East Pass or Black Bayou.</i>		
13	High	<b>Marsh north of Black Bayou.</b> Birds (high), nursery (high), wetlands (high).
<i>Pinchpoint at mouth of unnamed bayou can be boomed to protect Polygon 14 and part of 23 from spills in East Pass.</i>		
14	High	<b>Marsh south of Black Bayou.</b> Sabine NWR. Birds (high), nursery (high), wetlands (high).
<i>Pinchpoint at mouth of Pines Ridge Channel can be boomed to protect Polygons 15 and 24 from spills in Sabine Lake. 250' hard boom.</i>		
15	High	<b>Marsh north of Black Bayou.</b> Birds (high), nursery (high), wetlands (high).
<i>Pinchpoints at (1) Willow Bayou and (2) Willow Bayou Canal at Gray's Ditch can be boomed to protect southern part of Polygon 16 from spills in Grays Ditch.</i>		
<i>Pinchpoints at (1) mouth of Bridge Bayou and (2) mouth of Three Bayou can be boomed to protect parts of polygons 9, 16 and 25 from spills in Sabine Lake. 250' of hard boom.</i>		
16	High	<b>Three Bayou and marsh west of Grays Ditch.</b> Sabine NWR. Birds (high), nursery (high), wetlands (high).
17	Low	<b>Mouth of Old River Bayou.</b> Birds (medium), nursery (high).
18	Low	<b>Black Bayou.</b> Birds (medium), nursery (high).
19	Low	<b>East shore of Hickory Cove, West Pass.</b> Wetlands (high).
20	Low	<b>Sabine Island.</b> Birds (medium), wetlands (high).
21	Low	<b>Coffee Ground Cove shoreline, Sabine NWR.</b> Birds (medium), wetlands (high).
22	Medium	<b>South shore of Sabine Island.</b> Birds (medium), nursery (low), wetlands (high).
23	High	<b>South shore of Black Bayou, east shore of East Pass.</b> Birds (medium), nursery (high), wetlands (high).
24	High	<b>Marsh west of Pines Ridge.</b> Sabine NWR. Birds (medium), nursery (high), wetlands (high).
25	High	<b>Sabine Lake shoreline south of Pines Ridge.</b> Birds (medium), nursery (high), wetlands (high).
26	Low	<b>Nearshore Sabine Lake.</b> Low commercial and recreational fishing, nursery (high).
27	High	<b>Marsh northwest of Hickory Cove.</b> Birds (high), wetlands (high), nursery (high). Continued on Orangefield quad.

# PORT ARTHUR NORTH

Map #6

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H671	Port Neches Park
H683	Sara Jane Road

### Coast Guard Facilities

RARNUM	NAME	PHONE
H424	MSO Port Arthur	(409) 723-6513

### Heliports

RARNUM	MANAGER	PHONE
H1323	Randy Draper	(713) 962-8536
H1324	Russ Simpkins	(409) 985-7431
H1325	James Mitchell Dir. of Engineering	(409) 985-0415
H1330	Chad R. Wyble Electrical Engineer	(409) 724-4543

### Water Intake Points

RARNUM	OWNER	TYPE
H082	Texaco Chemical Co.	6
H083	Star Enterprise	1
H084	FINA Oil & Chemical Company	1

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D
629	River otter				X	X	X	X	X	X	X	X	X	X	X	X
630	River otter				X	X	X	X	X	X	X	X	X	X	X	X

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
52	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
629	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Rails				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	-	-	-	-
	Shorebirds				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
630	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				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	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
632	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Shorebirds				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
633	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Common loon	S	SC		X	X	X	X				X	X	X	X	X	-	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
634	Gulls				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	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
630	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
636	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC	
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT	

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
630	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
636	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

### Plants/Communities

RARNUM	NAME	S/F	T/E
629	Bulrush		
630	Bulrush		
632	Common reed		
633	Common reed		



# PORT ARTHUR NORTH

# Map # 6

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoints at (1) mouth of Bird Island Bayou, (2) mouth of canal north of Bird Island Bayou, (3) mouth of Nig Bayou, and (4) cut across Nig Bayou, can be boomed to protect parts of Polygons 1, 3, 4, and 5 from spills in Neches River.</i>		
1	High	<b>North of Neches River (southern Bessie Heights Marsh); Bird Island Bayou - Nig Bayou drainage.</b> Birds (high), nursery (high), wetlands (high).
2	Low	<b>North shore of Neches River.</b> Wetlands (high).
3	Low	<b>North shore of Neches River.</b> Wetlands (high).
4	Low	<b>North shore of Neches River.</b> Wetlands (high).
5	Low	<b>North shore of Neches River.</b> Wetlands (high).
<i>Two pinchpoints at canals south of Routes 73-96 cloverleaf can be boomed to protect Polygon 6 from spills in canals or along highway.</i>		
6	Low	<b>Marsh south of Routes 73-96 cloverleaf.</b> Wetlands (high).
7	Medium	<b>Leveed area east of Nig Bayou.</b> Birds (high), wetlands (high).
8	Low	<b>Fill area east of oil refinery.</b> Birds (high).
9	Low	<b>Spoil area south of Atreco tanks.</b> Birds (high).
10	Medium	<b>Marsh west of Molasses Bayou.</b> Birds (high), wetlands (medium).
11	Medium	<b>Marsh east of Molasses Bayou.</b> Birds (high), wetlands (medium).
12	Medium	<b>Impounded area east of Port Arthur.</b> Birds (high), wetlands (medium).
13	Medium	<b>Molasses Bayou and marsh west of Atreco Cut.</b> Birds (high), recreational fishing (low), nursery (low), wetlands (medium).
<i>Pinchpoints at canal parallel to Route 87 can be boomed to protect Polygon 14 from spills in canal or Neches River (West of Greens Bayou quad).</i>		
15	Low	<b>Texaco Star Enterprises canal at Route 215.</b> Birds (high). Rookery.
16	Low	<b>Texaco Star Enterprises canal at New Orleans Ave.</b> Birds (high). Rookery.
17	Medium	<b>Perimeter of impounded area east of Port Arthur.</b> Birds (high), fishing (medium), wetlands (medium).
18	Low	<b>Southern part of impounded area.</b> Nursery (medium), wetlands (medium).
19	Low	<b>East of Southern Pacific Railroad.</b> Birds (medium), wetlands (low). Continued on Port Acres quad.

No human use or biological resource data are displayed on this map.

# PORT ACRES

# Map # 7

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	High	<b>Upper Hillebrandt Bayou.</b> Birds (medium), bottomland hardwoods (high), nursery (high).
2	High	<b>Taylor Bayou south of French Island.</b> Birds (medium), bottomland hardwoods (high), nursery (high). Continued on Big Hill Bayou quad.
3	Medium	<b>South shore of Hillebrandt Bayou.</b> Birds (medium), bottomland hardwoods (high).
4	Medium	<b>North shore of Hillebrandt Bayou, lower Johns Gully.</b> Nursery (high), wetlands (high).
5	Medium	<b>Taylor Bayou marsh perimeter, east of Fish Box Gully.</b> Nursery (high), wetlands (high).
6	High	<b>Lower Hillebrandt Bayou.</b> Birds (high), nursery (high), wetlands (high). Continued on Big Hill Bayou quad.
7	Medium	<b>South shore of Hillebrandt Bayou.</b> Birds (high), wetlands (high).
8	Medium	<b>South shore of Hillebrandt Bayou.</b> Birds (high), wetlands (high).
9	Medium	<b>North shore of Hillebrandt Bayou.</b> Birds (high), wetlands (high).
10	Medium	<b>West shore of Hillebrandt Bayou, south of Route 365.</b> Birds (high), wetlands (high).
11	Medium	<b>East shore of Hillebrandt Bayou, north of Route 365.</b> Birds (high), wetlands (high).
12	Medium	<b>Between Hillebrandt Bayou and Rhodair Gully, south of Route 365.</b> Birds (high), wetlands (high).
13	Medium	<b>North Shore of Taylor Bayou, east shore of Rhodair Gully.</b> Birds (high), wetlands (high).
14	Low	<b>J. D. Murphree impoundment.</b> Birds (high), wetlands (medium).
15	Medium	<b>Lower Rhodair Gully.</b> Birds (high), recreational fishing (medium), wetlands (high).
16	Low	<b>Taylor Bayou south of Port Arthur.</b> Wetlands (high).

No human use or biological resource data are displayed on this map.

# WEST OF JOHNSONS BAYOU

Map # 8

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoint on Grays Ditch can be blocked to protect parts of Polygons 1 and 4 from spills in Grays Ditch or Willow Bay.</i>		
<i>Three pinchpoints at (1) mouth of Johnsons Bayou, (2) mouth of Willow Bayou, and (3) canal north of Willow Bayou can be boomed to protect Polygons 1 and 4 from spills in Sabine Lake.</i>		
1	High	<b>Johnsons Bayou, Willow Bayou, Deep Bayou, Starks Canal.</b> Includes part of Sabine NWR. Birds (high), nursery (high), wetlands (high). Continued on West of Greens Bayou quad.
<i>Pinchpoint at mouth of Madame Johnsons Bayou can be boomed to protect Polygon 2 from spills in Sabine Lake.</i>		
2	High	<b>Madame Johnsons Bayou and Lake.</b> Birds (high), nursery (high), wetlands (high).
<i>Three pinchpoints at (1) mouth of Greens Bayou, and (2) mouths of two unnamed canals to west can be boomed to protect Polygon 3 from spills in Sabine Lake.</i>		
3	High	<b>Greens Bayou and marsh to west.</b> Birds (high), nursery (high), wetlands (high).
4	Medium	<b>Marsh north of Starks canal, east of Grays Ditch.</b> Sabine NWR. Birds (high), wetlands (high).
5	Medium	<b>Marsh east of Double Island Gully.</b> Sabine NWR. Birds (high), wetlands (high).
6	Medium	<b>Marsh east of Johnsons Bayou.</b> Birds (high), wetlands (high).
7	Medium	<b>Marsh east of Deep Bayou.</b> Birds (high), wetlands (high).
<i>Pinchpoint at mouth of unnamed dredge channel can be boomed to protect Polygon 8 from spills in Sabine Lake.</i>		
8	Medium	<b>Interchenier marshes.</b> Birds (high), wetlands (high). Continued on Port Arthur South and Texas Point quads.
9	Medium	<b>Marsh east of mouth of Greens Bayou.</b> Birds (high), wetlands (high).
10	High	<b>Double Island Gully.</b> Sabine NWR. Birds (high), nursery (medium), wetlands (high). Continued on West of Greens Bayou quad.
11	High	<b>Big Forge Bayou marsh.</b> Birds (high), nursery (medium), wetlands (high). Continued on Port Arthur South quad.
12	High	<b>Marsh east of mouth of Greens Bayou.</b> Birds (high), nursery (medium), wetlands (high).
<i>Pinchpoint at mouth of unnamed dredge channel can be boomed to protect Polygon 12 from spills in Sabine Lake.</i>		
13	Medium	<b>Shell dredging channel west of Greens Bayou.</b> Birds (high), nursery (low), wetlands (high).
14	Medium	<b>Shell dredging channel east of Greens Bayou.</b> Birds (high), nursery (low), wetlands (high).
<i>Pinchpoint at mouth of unnamed dredge channel can be boomed to protect Polygon 14 from spills in Sabine Lake.</i>		
15	Medium	<b>Sabine Lake shoreline east of mouth of Greens Bayou.</b> Birds (high), wetlands (high)
16	Low	<b>Buck Ridge and marshes.</b> Wetlands (high).
17	Low	<b>Interchenier marshes southeast of Buck Ridge.</b> Wetlands (high).
18	Low	<b>Sanders Ridge and marshes.</b> Wetlands (high).
19	Low	<b>Marsh at west end of Blue Buck Ridge.</b> Wetlands (high).
20	Low	<b>Marsh between Blue Buck Ridge and Garner Ridge.</b> Wetlands (high).
21	Low	<b>Marsh at west end of Garner Ridge.</b> Wetlands (high).
22	Low	<b>Salt Work Ridge.</b> Wetlands (high).
23	Low	<b>Hackberry Ridge.</b> Wetlands (high). Continued on Texas Point quad.
24	Medium	<b>Marsh south of Hackberry Ridge.</b> Birds (high), wetlands (high). Continued on Texas Point quad.

# PORT ARTHUR SOUTH

Map #9

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM NAME

H665 Lake Sabine Causeway  
H666 Lake Sabine Causeway  
H669 Keith Lake  
H670 Public Ramp

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H163	Pleasure Island Marina	520 Pleasure Island Blvd. Port Arthur 77641	(409) 982-4675

### Water Intake Points

RARNUM	OWNER	TYPE
H083	Star Enterprise	6
H085	Jefferson Co Navigation Dist.	1
H091	Rice-Carden Corp.	6
H092	Chevron U.S.A. Inc.	6

## BIOLOGICAL RESOURCES

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
821	Red-breasted merganser				X	X	X	X	X						X	X	-	-	-	-
	Diving birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
824	Least tern	F	E				X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
825	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-
	Canvasback				X	X	X						X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	X	-	-	-	-
828	Northern shoveler				X	X	X	X					X	X	X	X	-	-	-	-
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X					X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	X	-	-	-	-
830	Green-winged teal				X	X	X	X					X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	X	-	-	-	-
	Northern shoveler				X	X	X	X					X	X	X	X	-	-	-	-
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
831	Waterfowl			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
832	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Waterfowl			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Canvasback			HIGH	X	X	X						X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
835	Gadwall			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Teals			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Canvasback			VERY HIGH	X	X	X						X	X	X	X	-	-	-	-
	Waterfowl			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	American wigeon				X	X	X	X					X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
837	Waterfowl			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
839	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
841	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
842	American wigeon				X	X	X	X					X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X					X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
831	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
835	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
837	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
773	Gulf saltmarsh snake	C2	N															

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
820	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
821	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

# PORT ARTHUR SOUTH CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
829	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
833	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
836	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
839	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
841	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
842	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
68	Penaeid shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
820	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
821	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
828	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
829	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
833	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
836	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
838	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
839	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
841	Grass shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
842	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

### Plants/Communities

RARNUM	NAME	S/F	T/E
828	Salt meadow cordgrass (wiregrass)		
830	Salt meadow cordgrass (wiregrass)		
831	Salt meadow cordgrass (wiregrass)		
832	Salt meadow cordgrass (wiregrass)		
837	Bulrush		
	Salt meadow cordgrass (wiregrass)		
839	Salt meadow cordgrass (wiregrass)		
841	Salt meadow cordgrass (wiregrass)		
842	Salt meadow cordgrass (wiregrass)		

# PORT ARTHUR SOUTH

Map # 9

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Mouth of Taylor Bayou canal on ICWW can be blocked to protect Taylor Bayou (polygon 1) from spills in ICWW.</i>		
1	Low	<b>Port Arthur Canal, ICWW, West Basin, Sabine Neches Canal.</b> Lower Taylor Bayou. Nursery (high).
2	Low	<b>Sabine Pass north of Point Hunt.</b> Nursery (high).
3	Low	<b>Reservoir south of Taylor Bayou.</b> Wetlands (high).
4	Low	<b>Northern perimeter of marsh east of Keith Lake.</b> Wetlands (high).
5	Low	<b>Eastern perimeter of marsh east of Keith Lake.</b> Wetlands (high).
6	Low	<b>Marsh east of Pass Channel.</b> Wetlands (high). Continued on Sabine Pass, West of Johnsons Bayou quads.
<i>Pinchpoint at mouth of unnamed cut on Taylor Bayou Canal can be boomed to protect Polygon 7 from spills in ICWW.</i>		
7	Medium	<b>J.D. Murphree impoundments and area to north.</b> Birds (high), wetlands (high). Continued on Big Hill Bayou quad.
8	Medium	<b>Marsh east of Keith Lake.</b> Birds (high), wetlands (high). Continued on Sabine Pass quad.
9	Medium	<b>Sabine Pass shoreline north of Pass Channel.</b> Birds (high), wetlands (high).
<i>Pinchpoint at mouth of canal on ICWW can be boomed to protect Polygon 10 from spills in ICWW.</i>		
10	Low	<b>Diked area east of Port Arthur Basins.</b> Birds (high), nursery (medium).
<i>Control structures at (1) mouth of canal on ICWW and (2) between Round Lake and Lost Lake can be closed to protect Polygons 11, 12, and 13 from spills in ICWW or other canals.</i>		
11	Low	<b>Fill area south of ICWW.</b> Birds (high).
<i>Pinchpoints at Keith Lake Pass can be boomed to protect Polygons 12, 14 and 15 from spills in Port Arthur Canal.</i>		
12	Medium	<b>Round Lake, Lost Lake area.</b> Birds (high), nursery (medium), wetlands (high). Large population of wintering canvasbacks, alligators.
13	Low	<b>Impoundment west of Round Lake.</b> Birds (high).
14	High	<b>Keith Lake and marsh to north.</b> Birds (high), nursery (high), wetlands (high).
15	Medium	<b>Northeast shore of Keith Lake.</b> Birds (high), wetlands (high).
16	Low	<b>Marsh east of Route 87.</b> Wetlands (high).
17	Medium	<b>Cuts northeast of Route 87.</b> Nursery (high), wetlands (high).
18	Low	<b>Sabine Pass offshore of diked area.</b> Low recreational and commercial fishing.
19	Low	<b>Sabine Pass offshore of Blue Buck Point.</b> Low recreational and commercial fishing. Nursery (medium).
20	Low	<b>Marsh at Blue Buck Point.</b> Birds (high), wetlands (low).
<i>Pinchpoints at mouths of (1) Big Forge Bayou and (2) unnamed creek to northeast can be blocked to protect Polygon 21 from spills in Sabine Lake.</i>		
21	High	<b>Big Forge Bayou drainage.</b> Birds (high), nursery (high), wetlands (low).
22	Low	<b>Northeast corner.</b> Birds(low), wetlands (medium). Continued on Port Arthur North, Big Hill Bayou quads.



## HUMAN USE RESOURCES

## Water Intake Points

RARNUM	OWNER	TYPE
H086	Shirla Howard ET AL.	6
H087	Texas Parks & Wildlife Dept.	6

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D
808	Mink				X	X	X	X	X	X	X	X	X	X	X	X
817	Mink				X	X	X	X	X	X	X	X	X	X	X	X

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
52	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
67	Migratory songbirds				X	X	X	X	X				X	X	X	X	-	-	-	-
805	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X				X	X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X				X	X	X	X	X	-	-	-	-
	Geese				X	X	X	X				X	X	X	X	X	-	-	-	-
805	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X				X	X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X				X	X	X	X	X	-	-	-	-
	Geese				X	X	X	X				X	X	X	X	X	-	-	-	-
806	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-
807	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
808	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Geese				X	X	X	X				X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
809	Waterfowl			HIGH	X	X	X	X				X	X	X	X	X	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
810	Blue-winged teal				X	X	X	X				X	X	X	X	X	-	-	-	-
	Northern pintail				X	X	X	X				X	X	X	X	X	-	-	-	-
	American wigeon				X	X	X	X				X	X	X	X	X	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Green-winged teal				X	X	X	X				X	X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X					X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X				X	X	X	X	X	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
813	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X				X	X	X	X	X	-	-	-	-
	American coot				X	X	X	X				X	X	X	X	X	-	-	-	-
	White-fronted goose				X	X	X					X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X					X	X	X	X	X	-	-	-	-
	White-tailed kite				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X				X	X	X	X	X	-	-	-	-
	Waterfowl			HIGH	X	X	X	X				X	X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X					X	X	X	X	X	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Mottled duck			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern pintail				X	X	X	X				X	X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X				X	X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	White-faced ibis	S	T		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	White ibis				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
816	Mottled duck			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	White-tailed kite				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X					X	X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X				X	X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X					X	X	X	X	X	-	-	-	-
	Northern pintail				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	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	White-faced ibis	S	T		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	White ibis				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Gadwall				X	X	X					X	X	X	X	X	-	-	-	-
	Ruddy duck				X	X	X					X	X	X	X	X	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Northern shoveler				X	X	X	X				X	X	X	X	X	-	-	-	-
	Geese				X	X	X	X				X	X	X	X	X	-	-	-	-
	American coot				X	X	X	X				X	X	X	X	X	-	-	-	-
817	Geese				X	X	X	X				X	X	X	X	X	-	-	-	-
	Canvasback				X	X	X					X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-

# BIG HILL BAYOU CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
804	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
812	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
813	American alligator			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
816	American alligator			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
804	Sunfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
810	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
813	Largemouth bass				X	X	X	X	X	X	X	X	X	X	X	X	FEB-APR	MAR-MAY
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
816	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	White crappie				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sunfish (bluegill)				X	X	X	X	X	X	X	X	X	X	X	X	-	-
818	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
819	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
810	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
819	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

### Plants/Communities

RARNUM	NAME	S/F	T/E
804	Giant cutgrass (Southern wild rice)		
	Common reed		
806	Common reed		
	Salt meadow cordgrass (wiregrass)		
	Banana water lily		
807	Cutgrass		
	Salt meadow cordgrass (wiregrass)		
	Giant cutgrass (Southern wild rice)		
	Arrowhead		
	California bulrush		
809	Common reed		
	Salt meadow cordgrass (wiregrass)		
810	Widgeon grass		
812	White water lily		
	Maliciae		
	Water lotus		
	Giant cutgrass (Southern wild rice)		
813	Giant cutgrass (Southern wild rice)		
	Alligatorweed		
	White water lily		
	Pondweed		
	Water lotus		
816	California bulrush		
	Common reed		
	Maliciae		
	Giant cutgrass (Southern wild rice)		
	Water lotus		
	Salt meadow cordgrass (wiregrass)		
	Seashore paspalum		
817	Cordgrass		
	Banana water lily		
	Salt meadow cordgrass (wiregrass)		
	Common reed		
450	Rush-sedge series		

# BIG HILL BAYOU

Map # 10

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	Low	<b>Taylor Bayou Marsh and reservoirs.</b> Wetlands (high). Continued on Alligator Hole Marsh quad.
2	Low	<b>Marsh south of Route 73.</b> Wetlands (high). <i>Note:</i> Big Hill Reservoir, shown as open water on USGS quad map, is now impounded freshwater marsh.
3	High	<b>Big Hill Bayou Marsh.</b> Includes part of McFaddin NWR. Birds (high), wetlands (high). Largest freshwater marsh on upper coast. Waterfowl, alligators. Continued on Alligator Hole Marsh, Clam Lake, Port Arthur South quads.
4	Medium	<b>Willow Lake - Barnett Lake area.</b> McFaddin NWR. Continued on Clam Lake quad. Birds (high), wetlands (high).
5	Low	<b>Fill south of ICWW.</b> Sea Rim State Park. Birds (high). Continued on Port Arthur South quad.
6	Medium	<b>Willie Slough Gully.</b> Birds (high), wetlands (high). Continued on Alligator Hole Marsh quad.
7	Medium	<b>Willow Slough Marsh.</b> Birds (high), fishing (low), wetlands (high). Huge concentrations of geese, ducks, and alligators. Continued on Alligator Hole Marsh quad.
8	Medium	<b>ICWW.</b> Birds (high), nursery (medium).
9	Low	<b>J.D. Murphree impoundment.</b> Birds (high), wetlands (medium). J.D. Murphree WMA.
10	Low	<b>West of Big Hill Bayou.</b> J.D. Murphree WMA. Birds (high).
<i>Pinchpoint at (1) mouth of Salt Bayou on ICWW and (2) mouth of Crane Bayou on Shell Lake can be boomed to protect parts of Polygon 11 from spills in ICWW, Shell Lake or unnamed canals</i>		
11	High	<b>Shell Lake area.</b> Birds (high), nursery (high), wetlands (high). Continued on Clam Lake, Port Arthur South quads.

No human use or biological resource data are displayed on this map.

# ALLIGATOR HOLE MARSH

Map # 11

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Medium	<b>Taylor Bayou, North Fork and South Fork.</b> Birds (high), swamp (high).
2	Low	<b>Taylor Bayou.</b> Wetlands (high). Continued on Big Hill Bayou quad.
3	Low	<b>Alligator Hole Marsh.</b> Wetlands (high).
4	Low	<b>Coffee Bean Slough.</b> Wetlands (high). Continued on Big Hill Bayou quad.
5	Low	<b>Broussard Reservoir, north of La Belle Oil Field.</b> Birds (medium), wetlands (high).
6	Medium	<b>Northern perimeter of Willow Slough marsh.</b> Birds (high), wetlands (high). Continued on Big Hill Bayou quad.
7	Medium	<b>Southern perimeter of Willow Slough marsh.</b> Birds (high), wetlands (high). Continued on Big Hill Bayou quad.
8	Medium	<b>Western Willie Slough Marsh.</b> Birds (high), wetlands (high). Continued on Big Hill Bayou quad.
9	Medium	<b>Willie Slough Gully.</b> Birds (high), wetlands (high). Continued on Big Hill Bayou quad.
10	Medium	<b>Central Willow Slough Marsh.</b> Birds (high), recreational fishing (low), wetlands (high). Continued on Big Hill Bayou quad.
11	Low	<b>South of Willie Slough Marsh.</b> Birds (high).
12	Medium	<b>Upper Willow Slough Marsh.</b> Birds (high), wetlands (high).
13	Low	<b>South fork of Coffee Bean Slough.</b> Wetlands (high). Continued on Big Hill Bayou quad.

# TEXAS POINT

# Map #12

## HUMAN USE RESOURCES

### Beach Access Points

ID	STREET
150	Access SW to beach
151	Access NW to beach

### Boat Ramps

RARNUM	NAME
H667	George's Landing
H668	Battleground

### Coast Guard Facilities

RARNUM	NAME	PHONE
H425	Sabine Station/Ant	(409) 971-2194

### Heliports

RARNUM	MANAGER	PHONE
H1343	J. D. Peltier	(409) 971-2329
H1344	Earl Fields	(504) 241-2120

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
94	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
93	Geese				X	X	X	X					X	X	X	X	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
99	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Cormorant				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X				X	X	X	X	X	-	-	-	-
101	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
94	Loggerhead sea turtle	S/F	E/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
94	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Silver seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Star drum				X	X	X	X	X	X	X	X	X	X	X	X	-	-
95	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
96	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
99	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
93	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
94	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
95	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
96	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
99	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

# TEXAS POINT CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Plants/Communities

RARNUM	NAME	S/F	T/E	CONCEN
93	Saltwort			
	Salt meadow cordgrass (wiregrass)			
	Smooth cordgrass			
	California bulrush			
	Glasswort			
	Cattail			
	Salt grass			
99	Salt meadow cordgrass (wiregrass)			
	Smooth cordgrass			
101	Smooth cordgrass			
	Salt meadow cordgrass (wiregrass)			

# TEXAS POINT

# Map # 12

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	Medium	<b>Louisiana Point marsh.</b> Birds (high), wetlands (high). Continued on West of Johnsons Bayou quad.
2	Medium	<b>Small chenier ridge and road to Goodrich Oil Station.</b> Birds (high), wetlands (high).
3	Low	<b>East shore of Sabine Pass, north of Sabine Pass Lighthouse.</b> Wetlands (high).
4	Low	<b>East shore of Sabine Pass, at Sabine Pass Lighthouse and south to Louisiana Point.</b> Wetlands (high).
5	Low	<b>Hackberry Ridge.</b> Wetlands (high). Continued on West of Johnsons Bayou quad.
<i>Pinchpoint at mouth of Lighthouse Bayou can be boomed to protect Polygon 6 from spills in Sabine Pass.</i>		
6	High	<b>Lighthouse Bayou and surrounding marsh.</b> Birds (high), wetlands (high), nursery (high).
<i>Pinchpoint at mouth of tidal bayou can be boomed to protect Polygon 7 from spills in Gulf of Mexico.</i>		
7	High	<b>Marsh 1.5 miles northeast of Louisiana Point.</b> Tidal bayous drain to Gulf. Birds (high), wetlands (high), nursery (high).
<i>Pinchpoint at mouth of Texas Bayou and unnamed channel can be boomed to protect polygons 8, 10 and Texas Point NWR from spills in Sabine Pass.</i>		
8	High	<b>Texas Bayou and surrounding marsh.</b> Birds (high), wetlands (high), nursery (high). Continued on Sabine Pass quad.
<i>Pinchpoint at mouth of tidal bayou can be boomed to protect Polygon 9 from spills in Gulf of Mexico.</i>		
<i>Pinchpoints at (1, 2) culverts under road and (3) at Goodrich Oil Station can be blocked to protect Polygon 9 from spills in Sabine Pass.</i>		
<i>Pinchpoints at culverts under road west of Texas Point benchmark can be blocked to control spills within Polygon 9.</i>		
9	High	<b>Texas Point marsh.</b> Tidal bayous drain to Gulf. Birds (high), wetlands (high), nursery (high). Continued on Sabine Pass quad.
10	Medium	<b>Marsh southeast of Mud Lake.</b> Birds (high), wetlands (high).
11	Low	<b>Mouth of Lighthouse Bayou.</b> Nursery (low).
12	High	<b>Gulf of Mexico shoreline.</b> Birds (high), wetlands (high), nursery (high), piping plover. Continued on Sabine Pass quad.



## HUMAN USE RESOURCES

### Beach Access Points

ID	STREET
149	

### Boat Ramps

RARNUM	NAME
H214	Broadway

### Heliports

RARNUM	MANAGER	PHONE
H1338	Michael Williamson	(409) 740-0231
H1339	Neill Osborne	(318) 365-6771
H1340	James T. Rodgers	(409) 971-2455
H1341	F.M. Baker	(713) 971-2431
H1342	Charles W. Johnson	(318) 478-6131

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
80	Mink				X	X	X	X	X	X	X	X	X	X	X	X		
94	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds				X	X	X	X	X					X	X	X	-	-	-	-
71	American wigeon				X	X	X	X					X	X	X	-	-	-	-	
	Green-winged teal				X	X	X	X					X	X	X	-	-	-	-	
	Geese				X	X	X	X					X	X	X	-	-	-	-	
74	American bittern				X	X	X					X	X	X	X	-	-	-	-	
	Green-winged teal				X	X	X	X				X	X	X	X	-	-	-	-	
	American wigeon				X	X	X	X				X	X	X	X	-	-	-	-	
	Lesser scaup				X	X	X					X	X	X	X	-	-	-	-	
	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
76	American wigeon				X	X	X					X	X	X	X	-	-	-	-	
	Lesser scaup				X	X	X					X	X	X	X	-	-	-	-	
	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	Green-winged teal				X	X	X	X				X	X	X	X	-	-	-	-	
	Waterfowl				X	X	X	X				X	X	X	X	-	-	-	-	
77	Waterfowl				X	X	X	X				X	X	X	X	-	-	-	-	
	Geese				X	X	X	X				X	X	X	X	-	-	-	-	
79	Geese				X	X	X	X				X	X	X	X	-	-	-	-	
	Ruddy duck				X	X	X					X	X	X	X	-	-	-	-	
80	Cormorant				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	-	MAR-AUG	MAR-AUG	MAR-AUG	
	Peregrine falcon	F	E	LOW	X	X	X	X				X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
84	Peregrine falcon	F	E	LOW	X	X	X	X				X	X	X	X	-	-	-	-	
	Shorebirds				X	X	X	X	X			X	X	X	X	-	-	-	-	
87	Least tern	F	E			X	X	X	X	X	X	X	X	X	X	-	APR-SEP	APR-SEP	MAY-SEP	
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP	APR-SEP	APR-SEP	
	Gulls				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Terns				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	
	Shorebirds				X	X	X	X	X			X	X	X	X	-	-	-	-	

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
94	Loggerhead sea turtle	S/F	E/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
76	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
94	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Silver seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

# SABINE PASS CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
69	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
76	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
94	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X		X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

### Plants/Communities

RARNUM	NAME	S/F	T/E
71	Bulrush		
	Cattail		
74	Salt marsh bulrush		
	Salt meadow cordgrass (wiregrass)		
	Common reed		
76	Salt marsh bulrush		
	Salt meadow cordgrass (wiregrass)		
	Common reed		
77	Salt meadow cordgrass (wiregrass)		
	California bulrush		
79	Salt marsh bulrush		
	Common reed		
	Salt meadow cordgrass (wiregrass)		
80	Smooth cordgrass		
	Salt meadow cordgrass (wiregrass)		
24	Marshhay cordgrass series		
778	Scarlet catchfly		

# SABINE PASS

# Map # 13

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoints at (1, 2) southeast shore of Keith Lake, (3) mouth of Peters Lake on Keith Lake, and (4, 5, 6) bayous connecting Salt Lake and Knight lake can be boomed to protect Polygons 1 and 3 from spills in Keith Lake, Salt Lake, or Knight Lake.</i>		
1	High	<b>Keith Lake, Salt Lake and surrounding marsh.</b> Birds (high), nursery (high), wetlands (high). Continued on Port Arthur South and Clam Lake quads.
2	High	<b>Texas Bayou and surrounding marsh.</b> Birds (high), nursery (high), wetlands (high). Continued on Texas Point quad.
3	High	<b>Knight Lake and surrounding marsh.</b> Birds (high), nursery (medium), wetlands (high). Continued on Clam Lake quad.
4	High	<b>Coastal marsh south of Knight Lake.</b> Birds (high), nursery (medium), wetlands (high).
5	Low	<b>Marsh east of Wildcat Ridge.</b> Birds (high), wetlands (low). Continued on Port Arthur South quad.
<i>Several culverts under Route 87 (more than the three pinchpoints shown on the map) can be blocked to protect Polygon 6 from spills in Sabine Pass or Port Arthur canal.</i>		
6	Low	<b>Marsh west of town of Sabine Pass, south of Route 87.</b> Birds (high), wetlands (low).
7	Low	<b>Chenier ridge at town of Sabine Pass and to west.</b> Birds (high).
8	Medium	<b>Marsh northwest of town of Sabine Pass, north of Route 87.</b> Birds (high), wetlands (high). Continued on Port Arthur South quad.
9	Medium	<b>Marsh south of town of Sabine Pass.</b> Birds (high), wetlands (high).
10	Low	<b>Pass Channel area, east of Point Hunt.</b> Wetlands (high).
11	Low	<b>Marsh southwest of Knight Lake.</b> Wetlands (high). Continued on Clam Lake quad.
12	Medium	<b>Marsh east of Pass Channel.</b> Nursery (medium), wetlands (high), birds (low).
13	High	<b>Gulf of Mexico shoreline.</b> Birds (high), nursery (medium), piping plover. Continued on Clam Lake quad.
14	High	<b>Gulf of Mexico shoreline.</b> Birds (high), nursery (high), piping plover. Continued on Texas Point quad.
15	Low	<b>Nearshore Gulf of Mexico.</b> Fishing (low), nursery (high).

## HUMAN USE RESOURCES

## Water Intake Points

RARNUM	OWNER	TYPE
H088	U. S. Department of Interior	1

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D
49	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
51	Mink				X	X	X	X	X	X	X	X	X	X	X	X
54	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
55	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
59	River otter				X	X	X	X	X	X	X	X	X	X	X	X
65	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
49	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Ruddy duck				X	X	X							X	X	X	-	-	-	-
50	American wigeon			HIGH	X	X	X	X						X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Teals			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Gadwall			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-
51	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
54	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
55	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
57	Cormorant				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Merlin				X	X								X	X		-	-	-	-
58	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Least tern	F	E			X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Ruddy turnstone				X	X	X	X					X	X	X	X	-	-	-	-
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-bellied plover					X	X	X					X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	X	-	-	-	-
59	Waterfowl			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Common moorhen			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Lesser scaup			HIGH	X	X	X						X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Gadwall			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	American wigeon			HIGH	X	X	X						X	X	X	X	-	-	-	-
	Teals			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
60	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
61	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ruddy turnstone				X	X	X						X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
63	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Cormorant				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ruddy duck				X	X	X						X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-

# CLAM LAKE CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Birds Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
65	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X				X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
66	Teals				X	X	X	X				X	X	X	X	X	-	-	-	-
	American wigeon				X	X	X	X				X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X				X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Lesser scaup				X	X	X					X	X	X	X	X	-	-	-	-
67	Migratory songbirds				X	X	X	X	X				X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
51	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
54	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
55	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
59	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
65	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
66	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
777	Pig frog				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
49	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
63	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
65	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
49	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
63	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
65	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

### Plants/Communities

RARNUM	NAME	S/F	T/E	CONCEN
786	Seacoast bluestem-gulfdune paspalum			
787	Sea oats-bitter panicum series			

# CLAM LAKE

Map # 14

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoint at mouth of unnamed canal north of ICWW can be boomed to protect Polygons 1 and 5 from spills in ICWW.</i>		
1	Medium	<b>Salt Bayou Marsh north of ICWW.</b> Birds (high), wetlands (high). Continued on Star Lake quad.
2	Medium	<b>Marsh south of Shell Lake - Keith Lake, north of Salt Lake.</b> Sea Rim State Park. Birds (high), wetlands (high).
3	Medium	<b>Southern perimeter of Salt Bayou Marsh.</b> Includes part of McFaddin NWR and Sea Rim State Park. Birds (high), wetlands (high).
4	Medium	<b>Coastal margin marsh south of Salt Lake.</b> Sea Rim State Park. Birds (high), wetlands (high).
5	Low	<b>Eastern perimeter of Salt Bayou Marsh north of ICWW.</b> Wetlands (high).
6	Low	<b>Southeast shore of ICWW.</b> McFaddin NWR. Wetlands (high).
7	Low	<b>Big Hill Bayou marsh north of ICWW, west of Barnett Lake.</b> Birds (high).
8	Low	<b>South of Clam Lake.</b> McFaddin NWR. Birds (high). Continued on Star Lake quad.
9	Low	<b>South of Salt Lake - Fence Lake.</b> Includes part of Sea Rim State Park. Birds (high)..
<i>Pinchpoint at mouth of canal to Clam Lake Oil Field can be boomed to protect polygons 10 and 14 from spills in ICWW</i>		
10	Medium	<b>Marsh west of Clam Lake Oil Field.</b> McFaddin NWR. Birds (high), nursery (low), wetlands (high). Continued on Star Lake quad.
11	Medium	<b>Marsh northeast of Clam Lake Oil Field.</b> McFaddin NWR, Sea Rim State Park. Birds (high), nursery (low), wetlands (high). Continued on Big Hill Bayou quad.
12	Low	<b>ICWW north of Clam Lake.</b> McFaddin NWR. Nursery (high).
13	Medium	<b>Southeast shore of ICWW.</b> McFaddin NWR. Nursery (high), wetlands (high).
<i>Control points at (1) mouth of canal from Clam Lake Oil Field to ICWW (2, 3, 4, 5) along Salt Bayou and tributaries, (6, 7, 8) at creeks entering Shell Lake, (9, 10) between Shell Lake and Salt Lake, and (11, 12) between Salt Lake and Fence Lake can be boomed to protect Polygon 14 from spills in ICWW or Salt Bayou system.</i>		
14	High	<b>Clam Lake, Clam Lake Oil Field, Salt Bayou, Salt Lake, Fence Lake, Shell Lake, Keith Lake.</b> Includes part of Sea Rim State Park, McFaddin NWR. Birds (high), nursery (high), wetlands (high). Continued on Sabine Pass, Big Hill Bayou quads.
<i>Pinchpoint at southern extreme of Fence Lake can be boomed to protect Polygon 15 from spills in Fence Lake.</i>		
15	High	<b>Marsh south of Salt Bayou.</b> Part of Sea Rim State Park, McFaddin NWR. Birds (high), nursery (medium), wetlands (high).
16	High	<b>Marsh south of Salt Lake.</b> Includes part of Sea Rim State Park. Birds (high), nursery (medium), wetlands (high). Continued on Sabine Pass quad.
17	High	<b>Gulf of Mexico shoreline south of Clam Lake.</b> Birds (high). Continued on Star Lake quad.
18	High	<b>Shoreline marsh south of Salt Lake.</b> Birds (high), wetlands (high). Continued on Sabine Pass quad.
		<u>Note:</u> Nearshore Gulf of Mexico is year-round brown pelican foraging area.
19	Low	<b>Willie Slough.</b> Birds (low), wetlands (medium). Continued on Big Hill Bayou quad.

## HUMAN USE RESOURCES

## Water Intake Points

RARNUM	OWNER	TYPE
H089	U. S. Department of Energy	1

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D				
36	River otter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mink				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
39	River otter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mink				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
40	Mink				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
42	River otter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mink				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
43	Mink				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
44	Mink				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
48	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	-	-

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
36	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
39	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wood stork	S	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
40	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
42	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wood stork	S	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
43	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
44	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose			1E+05	X	X	X						X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
46	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
47	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Sanderling				X	X	X	X					X	X	X	X	-	-	-	-
	Ruddy turnstone				X	X	X	X					X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING		
39	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-	-
40	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-	-
42	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-	-
43	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-	-
44	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-	-
46	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC	-	-
48	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Loggerhead sea turtle	S/F	E/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

# STAR LAKE CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	OUTMIG.	LARVAL/JUV
48	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	-	DEC-MAR
	White mullet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	JUN-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	SEP-DEC
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
42	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
48	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

### Plants/Communities

RARNUM	NAME	S/F	T/E	CONCEN
24	Marshhay cordgrass series			



# STAR LAKE

# Map # 15

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	Low	<b>Marsh south of Big Hill; northern perimeter of Spindletop Marsh.</b> Wetlands (high).
2	Low	<b>Salt Bayou Marsh, northern perimeter.</b> Wetlands (high).
3	Low	<b>Salt Bayou Marsh, northern perimeter.</b> Wetlands (high).
4	Low	<b>Salt Bayou Marsh, northern perimeter.</b> Wetlands (high).
5	Low	<b>Salt Bayou Marsh, northern perimeter.</b> Wetlands (high).
<i>Pinchpoints at (1) culvert where road crosses Little Lake, (2) flapgate on Spindletop Ditch, (3, 4) road crossings over Salt Bayou, (6) mouth of Spindletop Ditch on ICWW, (7) unnamed cut to ICWW east of Spindletop Ditch, (8) mouth of Salt Bayou on ICWW, can be closed to protects Polygon 6 and 13 from spills in ICWW, Spindletop Ditch or Salt Bayou area.</i>		
6	Medium	<b>Salt Bayou marsh north of ICWW.</b> Birds (high), wetlands (high). Continued on Clam Lake, Whites Ranch quads.
7	Medium	<b>Marsh south of Spindletop Ditch.</b> Birds (high), wetlands (high). Inlets and culverts can be blocked to control spills from ICWW or within Polygon 7. Continued on Whites Ranch quad.
8	Low	<b>Impounded water south of Spindletop Ditch.</b> Birds (high). Continued on Whites Ranch quad.
9	Low	<b>Impounded water south of Spindletop Ditch.</b> Birds (high).
<i>Pinchpoints at (1,2) mouth of Star Lake and impounded area on ICWW, (3) cut from Salt Bayou to ICWW, and (4,5) crossings over Salt Bayou can be closed to protect Polygons 10 and 12 from spills in ICWW or polygon 10 from spills in Star Lake or Salt Bayou.</i>		
10	Medium	<b>Salt Bayou Marsh south of ICWW and south of Spindletop Ditch.</b> McFaddin NWR. Birds (high), nursery (low), wetlands (high). Continued on Clam Lake, Whites Ranch quads.
<i>Pinchpoint at mouth of Salt Bayou on ICWW can be boomed to protect Polygon 11 from spills in ICWW.</i>		
11	High	<b>Salt Bayou north of ICWW.</b> Birds (high), nursery (medium), wetlands (high).
12	High	<b>Star Lake.</b> Birds (high), nursery (medium), wetlands (high).
13	Medium	<b>Spindletop Ditch.</b> Birds (high), nursery (medium).
14	Low	<b>Southwest of Clam Lake.</b> Birds (high), nursery (low). Continued on Clam Lake quad.
15	High	<b>Gulf of Mexico shoreline.</b> Birds (high). Continued on Clam Lake quad. <i>Note: Nearshore Gulf of Mexico is year-round brown pelican foraging area.</i>
16	Low	<b>Willie Slough Gully.</b> Birds (medium). Continued on Alligator Hole Marsh quad.
18	Low	<b>Impounded area southwest of Little Lake, north of Stop Ditch.</b> Birds (high). Continued on Whites Ranch quad.
19	Low	<b>ICWW.</b> Birds (high), nursery (low). Continued on Clam Lake, Whites Ranch quads

# WHITES RANCH

Map #16

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H681	Russel's Landing

### Water Intake Points

RARNUM	OWNER	TYPE
H767	Patrick & Michael Phelan	6
H768	Nolia F. Boudreaux ET AL	6
H769	Max L. Fortenberry ET AL	6
H770	Bruce Wilber Pipkin Estate	6
H788	Dorothy C. McBride ET AL	6
H822	Jess Batthews Jr. ET AL	6
H824	John M. Blackwell	1
H825	Jere Ruff	1

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/E	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D
31	River otter				X	X	X	X	X	X	X	X	X	X	X	X
32	River otter				X	X	X	X	X	X	X	X	X	X	X	X

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J F M A M J J A S O N D												NESTING	LAYING	HATCHING	FLEDGING
					J	F	M	A	M	J	J	A	S	O	N	D				
31	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Northern pintail				X	X	X	X				X	X	X	X	X	-	-	-	-
	American wigeon				X	X	X	X					X	X	X	X	-	-	-	-
	American coot				X	X	X	X				X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
32	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/E	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
31	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
32	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC

# WHITES RANCH

Map # 16

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	Low	<b>Big Hill Oil Field.</b> Wetlands (high).
2	Low	<b>West of Spindletop Ditch.</b> Wetlands (high).
3	Low	<b>Leveed southwestern margin of Spindletop Ditch.</b> Wetlands (high).
4	Low	<b>Southeast shore of ICWW.</b> Wetlands (high). Continued on Mud Lake quad.
<i>Flapgate at mouth of unnamed canal can be boomed to protect Polygon 5 from spills in Spindletop Ditch.</i>		
5	Low	<b>Northwest Spindletop Ditch.</b> Birds (high), wetlands (low).
<i>Flapgates at mouths of (1) Barnes Slough and (2) unnamed waterway to east can be closed to protect Polygon 6 from spills in ICWW.</i>		
6	Low	<b>Mud Bayou Marsh.</b> Birds (high), wetlands (low). Continued on Mud Bayou.
7	Medium	<b>Spindletop Marsh.</b> Birds (high), wetlands (high). Continued on Star Lake quad.
8	Medium	<b>Marsh south of Spindletop Ditch.</b> Birds (high), wetlands (high).
9	Medium	<b>Marsh south of Spindletop Ditch.</b> Birds (high), wetlands (high). Continued on Star Lake quad.
10	Low	<b>Impounded area north of Spindletop Ditch.</b> Birds (high). Continued on Star Lake quad.
11	Low	<b>Impounded water south of Spindletop Ditch.</b> Birds (high). Continued on Star Lake quad.
12	Low	<b>Spindletop Ditch.</b> Birds (high), recreational fishing (medium).
<i>Flapgate at mouth of unnamed bayou can be boomed to protect Polygon 13 from spills in ICWW.</i>		
13	Low	<b>Marsh north of ICWW.</b> Birds (high), wetlands (low).
<i>Two 60-inch pipes east of Neel benchmark can be blocked to protect Polygon 14 from spills in ICWW. Culverts under cattle walkway at western boundary of McFaddin NWR can be blocked to control spills within Polygon 14.</i>		
14	Medium	<b>Mud Bayou Marsh.</b> Includes part of McFaddin NWR. Birds (high), nursery (low), wetlands (high). Continued on Star Lake, Mud Lake quads.

# SOUTH OF STAR LAKE

Map #17

## HUMAN USE RESOURCES

### Heliports

RARNUM	MANAGER	PHONE
H1207	David Peltier	(713) 584-3854

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
112	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
113	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
112	Loggerhead sea turtle	S/F	E/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
113	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
112	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	White mullet				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
112	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

## SOUTH OF STAR LAKE

Map # 17

<i>Polygon #</i>	<i>Priority</i>	<i>Description: what organism(s), habitat(s)?</i>
1	Medium	<b>Mud Bayou Marsh.</b> McFaddin NWR. Birds (high), nursery (low), wetlands (high). Continued on Star Lake, Mud Lake quads.
2	High	<b>Gulf of Mexico shoreline.</b> Birds (high). Continued on Mud Lake, Star Lake quads. <u>Note:</u> Nearshore Gulf of Mexico is year-round brown pelican foraging area.

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
106	Mink				X	X	X	X	X	X	X	X	X	X	X	X		
108	Mink				X	X	X	X	X	X	X	X	X	X	X	X		
109	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
60	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
106	American wigeon				X	X	X	X						X	X	X	-	-	-	-
	Northern shoveler				X	X	X	X						X	X	X	-	-	-	-
	Sora rail				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X						X	X	X	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Yellow rail				X	X	X							X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Green-winged teal				X	X	X	X						X	X	X	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Geese				X	X	X	X						X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Peregrine falcon			LOW	X	X	X	X						X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	X	-	-	-	-
107	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern	F	E					X	X	X	X	X	X				APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Shorebirds				X	X	X	X					X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ruddy turnstone				X	X	X	X						X	X	X	-	-	-	-
	Black-bellied plover							X	X	X	X	X	X				-	-	-	-
108	Sanderling				X	X	X	X						X	X	X	-	-	-	-
	American wigeon				X	X	X	X						X	X	X	-	-	-	-
	Geese				X	X	X	X						X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gadwall				X	X	X	X						X	X	X	-	-	-	-
	Northern shoveler				X	X	X	X						X	X	X	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X	X						X	X	X	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Sora rail				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	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
109	Peregrine falcon	F	E	LOW	X	X	X	X						X	X	X	-	-	-	-
	Franklin's gull							X	X	X				X	X	X	-	-	-	-

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
106	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
108	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
109	Loggerhead sea turtle	S/F	E/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
108	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Blue catfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
109	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	White mullet				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sharks				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Southern kingfish (whiting)				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Tarpon			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV.
108	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
109	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

# MUD LAKE CONTINUED

Plants/Communities				BIOLOGICAL RESOURCES CONT.			
RARNUM	NAME	S/F	T/E				
106	Olney's three-square						
108	Olney's three-square						

## MUD LAKE

## Map # 18

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoint at mouth of North Prong on ICWW can be boomed to protect Polygon 1 from spills in ICWW.</i>		
1	Low	<b>Marsh northwest of ICWW.</b> Birds (high), wetlands (low). Continued on Whites Ranch and High Island (Galveston Bay) quads.
2	Low	<b>ICWW spoil bank, west of Mud Bayou canals.</b> Nursery (low), wetlands (high).
3	Low	<b>ICWW spoil bank, east of Mud Bayou canals.</b> Nursery (low), wetlands (high).
<i>Pinchpoints at mouths of Mud Bayou canals can be boomed to protect Polygon 4 and part of Polygon 5 from spills in ICWW.</i>		
4	High	<b>Mud Lake and Mud Bayou.</b> Birds (high), nursery (high), wetlands (high).
<i>Pinchpoints at culverts where cattle walkways cross Mud Bayou can be boomed to control spills within Polygon 5. Several other culverts at minor bayous are also potential control points.</i>		
<i>Mud Bayou meander, west of Mud Bayou canals to ICWW, breaks through to ICWW during high wind-driven tides. Can be blocked to protect western part of Polygon 5 from spills in ICWW.</i>		
5	Medium	<b>Mud Bayou marsh south of ICWW.</b> Bird (high), nursery (low), wetlands (high). Continued on Whites Ranch and South of Star Lake quads.
6	High	<b>Gulf of Mexico shoreline.</b> Birds (high), piping plover. Continued on South of Star Lake, High Island (Galveston Bay) quads.
<u>Note:</u> Nearshore Gulf of Mexico is year-round foraging area for brown pelicans.		
7	Low	<b>Southwest of High Island.</b> Wetlands (low).



# Galveston Bay

## Data Sheets



## HUMAN USE RESOURCES

### Boat Ramps

RARNUM NAME

H570 Fort Anahuac Park

### Heliports

RARNUM MANAGER

PHONE

H1357 W.C. Byerly

Not Available

### Water Intake Points

RARNUM OWNER TYPE

H099 Chambers-Liberty Cos. ND 6

H100 City of Houston 6

H101 Trinity River Authority 6

## BIOLOGICAL RESOURCES

### Mammals

RARNUM NAME S/F T/E CONCEN J F M A M J J A S O N D

160 River otter X X X X X X X X X X X X

### Birds

RARNUM NAME S/F T/E CONCEN J F M A M J J A S O N D NESTING LAYING HATCHING FLEDGING

153 Mottled duck X X X X X X X X X X X X JAN-AUG JAN-AUG JAN-AUG FEB-SEP

Waterfowl X X X X X X X X X - - - -

155 Waterfowl X X X X X X X X X - - - -

Mottled duck X X X X X X X X X X JAN-AUG JAN-AUG JAN-AUG FEB-SEP

157 Rails X X X X X X X X X X X - - - -

Wading birds X X X X X X X X X X X - - - -

Red-tailed hawk X X X X X X X X X X X - - - -

Northern harrier X X X X X X X X X X X APR-AUG APR-AUG APR-AUG MAY-SEP

Red-shouldered hawk X X X X X X X X X X X - - - -

Bald eagle F T X X X X X X X X X X JAN-AUG JAN-AUG JAN-AUG FEB-SEP

Wood duck X X X X X X X X X X X FEB-AUG FEB-AUG FEB-AUG MAR-SEP

Mallard X X X X X X X X X X X - - - -

158 Bald eagle F T X X X X X X X X X X JAN-AUG JAN-AUG JAN-AUG FEB-SEP

159 Waterfowl X X X X X X X X X X X - - - -

Mottled duck X X X X X X X X X X X JAN-AUG JAN-AUG JAN-AUG FEB-SEP

160 Mottled duck X X X X X X X X X X X JAN-AUG JAN-AUG JAN-AUG FEB-SEP

Waterfowl X X X X X X X X X X X - - - -

161 Roseate spoonbill X X X X X X X X X X X APR-AUG APR-AUG APR-AUG MAY-SEP

Wading birds X X X X X X X X X X X - - - -

Waterfowl X X X X X X X X X X X - - - -

White ibis X X X X X X X X X X X FEB-JUN FEB-JUN FEB-JUN MAR-JUL

Green-winged teal X X X X X X X X X X X - - - -

Gadwall X X X X X X X X X X X - - - -

Northern shoveler X X X X X X X X X X X - - - -

Lesser scaup X X X X X X X X X X X - - - -

Osprey S SC X X X X X X X X X X X - - - -

163 Waterfowl X X X X X X X X X X X - - - -

Wading birds X X X X X X X X X X X - - - -

Long-billed curlew S SC X X X X X X X X X X X - - - -

Clapper rail X X X X X X X X X X X MAR-AUG MAR-AUG MAR-AUG APR-SEP

165 Mottled duck X X X X X X X X X X X JAN-AUG JAN-AUG JAN-AUG FEB-SEP

Waterfowl X X X X X X X X X X X - - - -

166 Waterfowl X X X X X X X X X X X - - - -

### Reptiles/Amphibians

RARNUM NAME S/F T/E CONCEN J F M A M J J A S O N D NESTING HATCHING

153 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

155 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

159 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

160 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

161 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

163 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

165 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

166 American alligator X X X X X X X X X X X X JUN-SEP JUN-DEC

### Fish

RARNUM NAME S/F T/E CONCEN J F M A M J J A S O N D SPAWNING LARVAL/JUV

157 Striped bass X X X X X X X X X X X X - -

Blue catfish X X X X X X X X X X X X - -

Channel catfish X X X X X X X X X X X X - -

160 Channel catfish X X X X X X X X X X X X - -

Blue catfish X X X X X X X X X X X X - -

Killifish X X X X X X X X X X X X MAR-SEP JAN-DEC

Mullet X X X X X X X X X X X X NOV-JAN DEC-FEB

161 Gizzard shad X X X X X X X X X X X X - -

Blue catfish X X X X X X X X X X X X - -

Mullet X X X X X X X X X X X X NOV-JAN DEC-FEB

Killifish X X X X X X X X X X X X MAR-SEP JAN-DEC

# ANAHUAC CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
162	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
155	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-UL
160	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
161	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
162	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
163	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
165	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Grass shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
166	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Plants/Communities

RARNUM	NAME	S/F	T/E
153	Salt meadow cordgrass (wiregrass)		
	California bulrush		
	Arrowhead		
155	Water celery		
	Widgeon grass		
	Southern naiad		
159	Salt meadow cordgrass (wiregrass)		
163	Water celery		
166	Widgeon grass		
	Water celery		

# ANAHUAC

# Map # 19

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	Medium	<b>Lake Charlotte - Lake Miller area.</b> Bird habitat (high), wetlands (high). <u>Note:</u> bald eagles nest and feed in area.
<i>Many pinchpoints where waterways of Trinity River Delta can be boomed to protect polygons 2, 3, 4, and parts of 6.</i>		
2	High	<b>Distal emergent Trinity River Delta (a - e).</b> Bird habitat (high), wetlands (high), nursery (high). Many sections can be protected separately. Continuous with polygon 1 on Cove quad. <u>Note:</u> there is more open water relative to wetlands than shown on USGS base map.
3	Medium	<b>Lower Trinity River and Anahuac Channel.</b> Bird habitat (high), nursery area (high).
4	Medium	<b>Mouth of Long Island Bayou.</b> Bird habitat (high), nursery (high).
5	SAV	<b>Seagrass beds of Trinity River Delta (a - e).</b> Bird habitat (high), nursery (high), submerged aquatic vegetation (high). This area should be avoided during response activities to prevent physical damage to vegetation.
6	Medium	<b>Distal delta lobe at Southwest Pass.</b> Nursery (high), wetlands (high). <u>Note:</u> Seagrass beds may not occur in same location from year to year. <u>Note:</u> the Trinity River delta is shallow, hazardous, and changes rapidly. Airboats may be necessary in many areas. 1974 photorevisions of USGS topo maps show marsh in some areas that are now open water.

## HUMAN USE RESOURCES

## Boat Ramps

RARNUM NAME

H572 Cotton Lake

## BIOLOGICAL RESOURCES

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
144	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Geese				X	X	X	X				X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
146	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Geese				X	X	X	X				X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
147	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
150	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
151	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
642	Little blue heron			40	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Roseate spoonbill			90	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Cattle egret			950	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Snowy egret			100	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Great egret			25	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Olivaceous cormorant			75	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
144	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
146	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
147	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
150	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
151	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
144	Channel catfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Striped bass				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Blue catfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
146	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
147	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Blue catfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Striped bass				X	X	X	X	X	X	X	X	X	X	X	X	-	-
151	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
152	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
151	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
152	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

## Plants/Communities

RARNUM	NAME	S/F	T/E
144	Smooth cordgrass		
146	Common reed		
	Arrowhead		
150	Widgeon grass		
151	Widgeon grass		
774	Texas windmill-grass	C2	N

## COVE

## Map # 20

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Several pinchpoints along north shore of Trinity Bay can be boomed to protect polygons 1 and 3 from spills in Trinity Bay: Red Bayou, Double Bayou, Cross Bayou, Dunn Bayou, Cove Bayou, and several unnamed inlets and cuts are shown on the Cove quad.</i>		
1	High	<b>Western lobe of Trinity River Delta (a - c).</b> Bird habitat (high), nursery (high), wetlands (high). Many sections can be protected separately. Continuous with polygon 2 on Anahuac quad.
2	Medium	<b>Trinity River meander south of I10.</b> Nursery (high), wetlands (high).
<i>Pinchpoint at mouth of Cotton Bayou can be boomed to protect Polygon 3 from spills in Old River Lake, or to protect Old River Lake from spills in Cotton Lake or the Cotton Bayou drainage.</i>		
3	Medium	<b>(a) Old River Lake and (b) Cotton Lake.</b> Bird habitat (high), nursery (high). Protect sections separately.
4	Medium	<b>Cotton Bayou above Cotton Lake.</b> Nursery (high), wetlands (high).
5	SAV	<b>Seagrass beds of Trinity River Delta.</b> Bird habitat (high), nursery (high), submerged aquatic vegetation (high). This area should be avoided during response activities to prevent physical damage to vegetation. <u>Note:</u> Seagrass beds may not occur in the same location from year to year. <u>Note:</u> the Trinity River delta is shallow, hazardous, and changes rapidly. Airboats may be necessary in many areas. USGS topo maps show marsh in some areas that are now open water.

# HIGHLANDS

# Map #21

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H717	Public boat launch
H718	River Terrace Park

### Heliports

RARNUM	MANAGER	PHONE
H1172	John Pittman	(713) 479-3435
H1179	George Arnold	(713) 452-8888
H1180	George L. Clogston	(713) 673-7821

### Water Intake Points

RARNUM	OWNER	TYPE
H060	Southwestern Barge Fleet Service	1
H061	Coopers Marine Service Inc.	1
H075	Western Towing Co.	1

## BIOLOGICAL RESOURCES

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
129	Osprey	S	SC		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	-	-	-	-
135	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
143	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
132	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
135	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
139	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
143	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
132	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
135	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
139	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
143	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Plants/Communities

RARNUM	NAME	S/F	T/E
129	Arrowhead		
135	Smooth cordgrass		
775	Threeflower broomweed		

## HIGHLANDS

Map # 21

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoint at mouth of George White Lake can be boomed to protect polygon 1 from spills in San Jacinto River.</i>		
1	Medium	<b>George White Lake.</b> Wetlands (medium), bird habitat (medium).
2	Low	<b>(a) Grennel Slough - Bear Lake - Gilbert Landing area, (b) Burnet Bay, (c) mouth of Buffalo Bayou.</b> Nursery (high).
3	Medium	<b>Fringe marshes along San Jacinto River (a - i).</b> Nursery (high), wetlands (medium).
4	Medium	<b>San Jacinto River island southeast of Bear Lake.</b> Nursery (high), bird habitat (medium).
5	High	<b>San Jacinto River island south of Grennel Slough.</b> Wetlands (high), nursery (high), bird habitat (medium).
6	Medium	<b>South shore of Old River meander island.</b> Wetlands (high), nursery (medium), bird habitat (medium).
7	Medium	<b>Fringe marsh along south shore of Burnet Bay.</b> Wetlands (high), nursery (high).
<i>Pinchpoint at mouth of Santa Anna Bayou (on La Porte quad) can be boomed to protect polygons 8 and 9 from spills in San Jacinto River.</i>		
8	High	<b>West shore of Santa Anna Bayou.</b> Wetlands (high), nursery (high). San Jacinto State Park. Continued on La Porte quad.
9	High	<b>Northern Santa Anna Bayou.</b> Nursery (high).
10	Low	<b>(a &amp; b) Northern Scott Bay.</b> Nursery (high). Continued on La Porte quad.



## HUMAN USE RESOURCES

## Aquaculture Sites

RARNUM	NAME	ADDRESS	PHONE
H001	Halbert Fish Farm	9025 Pineland Channelview 77530	(713) 458-8705

## Heliports

RARNUM	MANAGER	PHONE
H1274	John D. McHazlett	(713) 455-1311

## Water Intake Points

RARNUM	OWNER	TYPE
H807	Texas Parks & Wildlife Dept.	6
H808	Texas Parks & Wildlife Dept.	6

## HUMAN USE RESOURCES

### Heliports

RARNUM	MANAGER	PHONE
H1223	Don Fletcher	(713) 643-4597
H1228		
H1252	C.R. Farris	(713) 754-2903
H1256	Steve Johnson	(409) 539-5699
H1260	Bruce C. Edwards	(713) 658-7044
H1270	James A. McMullian	(713) 676-3841
H1277	Alexander Brailas	(713) 746-5590
H1279	James Wilson	(713) 654-1911
H1284	J.W. Snelson	(713) 641-0281
H1289	Scoot Dennis	(713) 236-5536
H1290	J.W. Snelson	(713) 641-0281

### Water Intake Points

RARNUM	OWNER	TYPE
H072	Gulf Coast Portland Cement Co.	6

# OAK ISLAND

# Map #24

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM NAME

H589 Oak Island County

### Water Intake Points

RARNUM OWNER TYPE

H097 Donald G. Nelson ET AL 6

H098 Edmonds Brothers Farms 6

## BIOLOGICAL RESOURCES

### Fish

RARNUM NAME S/E T/E CONCEN J F M A M J J A S O N D SPAWNING LARVAL/JUV

211	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
213	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB

### Shellfish

RARNUM NAME S/E T/E CONCEN J F M A M J J A S O N D SPAWNING LARVAL/JUV

211	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
213	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-

## OAK ISLAND

Map # 24

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Medium	<b>Trinity Bay shoreline south of Anahuac, barrier islands to west flanking Trinity River Channel, and barrier islands along eastern margin of Anahuac Channel (a - d).</b> Nursery (high), wetlands (high). Sections should be protected separately. Continued on Anahuac quad.
2	SAV	<b>Seagrass beds between Trinity River Channel and Anahuac Channel.</b> Submerged aquatic vegetation (high), nursery (high). <u>Note:</u> Seagrass beds along eastern shore of Trinity Bay should be avoided during response activities to prevent physical damage to vegetation. Beds may not occur in the same location from year to year.
3	Medium	<b>Trinity Bay shoreline at Oak Island, north of Double Bayou.</b> Wetlands (high), nursery (medium). <i>Pinchpoint at mouth of Double Bayou can be boomed to protect polygon 4 and part of polygon 3.</i>
4	Medium	<b>Confluence of West and East Forks of Double Bayou (a, b).</b> Wetlands (high), nursery (medium)

# UMBRELLA POINT

Map #25

## HUMAN USE RESOURCES

Boat Ramps

RARNUM NAME

H540 Crawley's

## BIOLOGICAL RESOURCES

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
201	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	-		MAR-DEC
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Least puffer				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
202	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Least puffer				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
201	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
202	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL

# MORGANS POINT

Map #26

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H541	Thompson's
H542	Roseland Park
H571	Crawley's Bait Camp
H618	H221
H719	Mary's Bait Camp
H721	Bayland Park

### Heliports

RARNUM	MANAGER	PHONE
H1169	Rod Seidel	(713) 420-8600

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H155	Baytown Marina	1512 1/2 Jones Baytown	(713) 427-1997

## BIOLOGICAL RESOURCES

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
192	American white pelican				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Olivaceous cormorant				X	X	X	X	X	X	X	X	X	X	X	-	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	APR-SEP
194	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	American white pelican				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
185	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	-		MAR-DEC
	Spot				X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	NOV-FEB
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	JAN-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	SEP-DEC
188	Red drum				X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	SEP-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	DEC-MAR
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	-		MAR-DEC
190	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	-		MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	DEC-MAR
	Black drum				X	X	X	X	X	X	X	X	X	X	X	-	JAN-APR	JUL-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	SEP-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	-	NOV-JAN	DEC-FEB
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	-		APR-OCT
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	-	MAR-MAY	MAR-AUG
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	DEC-MAR
195	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	-		MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	-		APR-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	-	NOV-JAN	DEC-FEB
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	-		OCT-DEC
196	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	-		APR-OCT
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	-		APR-OCT
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	-		MAR-DEC
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	-	MAR-MAY	MAR-AUG
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	SEP-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	-	NOV-JAN	DEC-FEB
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	-		OCT-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	JAN-DEC
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	-	MAY-SEP	JUN-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	NOV-FEB
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	-	MAR-OCT	MAR-DEC
198	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	DEC-MAR
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	-		OCT-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	-	NOV-JAN	DEC-FEB
	Black drum				X	X	X	X	X	X	X	X	X	X	X	-	JAN-APR	JUL-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	-		APR-OCT
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	-		-
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	-		-
200																		

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
185	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	-	NOV-MAR	FEB-JUN
188	Blue crab				X	X	X	X	X	X	X	X	X	X	X	-	APR-JUL	MAY-AUG
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	-	NOV-MAR	FEB-JUN
190	Blue crab				X	X	X	X	X	X	X	X	X	X	X	-	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	-	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	-	MAY-OCT	MAY-OCT

# MORGANS POINT CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Shellfish Continued

RARNUM	NAME	S/E	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
193	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
195	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
196	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
197	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
198	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

### Plants/Communities

RARNUM	NAME	S/E	T/E
192	Smooth cordgrass		

# MORGANS POINT

Map # 26

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Medium	<b>Goose Lake - Upper Tabbs Bay.</b> Nursery (high), bird habitat (medium).
2	Medium	<b>(a) Northwestern and (b) southeastern Hog Island.</b> Bird habitat (high), nursery (high).
3	High	<b>Central Hog Island.</b> Wetlands (high), nursery (high), bird habitat (high).
4	High	<b>Northwestern Atkinson Island.</b> Bird habitat (high). Atkinson Island WMA.
5	High	<b>Northeastern Atkinson Island.</b> Wetlands (high), bird habitat (high), nursery (high). Atkinsons Island WMA.
6	Low	<b>Western Atkinson Island.</b> Bird habitat (high).
7	High	<b>Central eastern Atkinson Island.</b> Wetlands (high), bird habitat (high), nursery (high).
8	Medium	<b>Southeastern Atkinson Island.</b> Bird habitat (high), nursery (high).
9	Medium	<b>Central southern Atkinson Island.</b> Wetlands (high), bird habitat (high).
10	Low	<b>Basin at Sutton Gully and Cedar Bayou.</b> Nursery (high).
<i>Pinchpoints at (1) mouth of Cedar Bayou Diversion Canal, (2) mouth of Ash Lake, and (3) mouth of Cedar Bayou can be boomed to protect polygons 11, 12, and 13 from spills in Galveston Bay.</i>		
11	Low	<b>(1) Ash Lake and mouth of Cedar Bayou, (2) Cedar Bayou north of Devils Elbow and Cedar Bayou Diversionary Canal.</b> Nursery (high).
12	Medium	<b>Lower Cedar Bayou: Ijams Lake, Negrohead Lake, Devils Elbow.</b> Nursery (high), bird habitat (high).
13	High	<b>Cedar Bayou meanders (a - e).</b> Wetlands (high), nursery (high), bird habitat (high).
14	High	<b>(a) Marrow Marsh and (b) Swan Marsh.</b> Wetlands (high), nursery (high), bird habitat (high).
15	Low	<b>Boaz Island.</b> Nursery (high), rookery (low).
16	Low	<b>(a) Northeastern and (b) southeastern Black Duck Bay.</b> Nursery (high). Continued on La Porte quad.



## HUMAN USE RESOURCES

## Boat Ramps

RARNUM	NAME
H543	Tabb's Bay
H545	Sylvan Beach
H607	The Galley
H720	The Galley

## Heliports

RARNUM	MANAGER	PHONE
H1190	C.J. Monk	(713) 476-3700
H1301	H. Carlos Smith	(713) 471-4226
H1315	Larry D. Tucker	(713) 476-1501

## Water Intake Points

RARNUM	OWNER	TYPE
H062	Houston L&P-Sam Bertram	6
H064	Paktank Corporation-Deer Park	1
H074	Baywood Country Club	1

## BIOLOGICAL RESOURCES

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
176	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	American coot				X	X	X							X	X	X	-	-	-	-
177	Least tern	F	E				X	X	X	X	X	X	X				APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
644	Least tern	F	E				X	X	X	X	X	X	X				APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
645	Cattle egret			18	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Snowy egret			170	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Black-crowned night heron			280	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	White ibis			280	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Little blue heron			8	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Great blue heron			8	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Tricolored heron			26	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Roseate spoonbill			28	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Olivaceous cormorant			77	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
	Great egret			133	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
178	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
180	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
182	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
183	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
68	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
175	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
178	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
180	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
183	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

## Plants/Communities

RARNUM	NAME	S/F	T/E
774	Texas windmill-grass	F	C2
778	Houston machaeranthera	F	C2
788	Little bluestem-brownseed paspalum ser		

## LA PORTE

Map # 27

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoint at mouth of Santa Anna Bayou can be boomed to protect polygon 1 (and polygons 8 and 9 on Highlands quad) from spills in San Jacinto River.</i>		
1	Medium	<b>Marsh east of Santa Anna Bayou.</b> Nursery (high), bird habitat (medium). San Jacinto State Park. Continued on Highlands quad.
2	Low	<b>(a) Scott Bay, (b) Upper San Jacinto Bay, and (c) eastern Black Duck Bay.</b> Nursery (high).
3	High	<b>Northeastern Alexander Island.</b> Rookery (high). Best rookery in area (hundreds of nesting pairs). <i>Note: Nesting season is February-August in rookeries.</i>
4	Low	<b>South Crystal Bay.</b> Nursery (high). Continued on Highlands quad.

## HUMAN USE RESOURCES

## Heliports

RARNUM	MANAGER	PHONE
H1309	LT P.D. Cobb	(713) 477-1221
H1310	J. A. Stallings	(713) 944-5347
H1311	John Pittman	(713) 479-3435
H1312	Dennis Knox	(713) 477-0411
H1313	Administrator	(713) 944-6666
H1314	Duard Franklin	(713) 740-1121
H1346	R.L. Moore Division Manager	(713) 623-7119

## Water Intake Points

RARNUM	OWNER	TYPE
H065	Oiltanking of Texas Inc.	6
H066	Phillips 66 Corporation	6
H067	Ethyl Corporation	6
H068	Mobil Oil Corporation	6
H069	Armco Inc.	6
H070	Houston L&P-Deepwater	6
H071	Paktank Corporation -Galena Park Term.	1

## BIOLOGICAL RESOURCES

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E
779	Crawfish frog	NA	N

## Plants/Communities

RARNUM	NAME	S/F	T/E
778	Houston machaeranthera	F	C2

## HUMAN USE RESOURCES

## Coast Guard Facilities

RARNUM	NAME	PHONE
H426	MSO Houston/Houston Station	(713) 672-6639

## Heliports

RARNUM	MANAGER	PHONE
H1211	Tom R. Lewis	
H1218	Raleigh Abner	(713) 921-8181
H1234	J.W. Snelson	(713) 641-0281
H1235	Captian Waggett	(713) 672-6639
H1241	William D. Shirley	(713) 991-6300
H1245	Dudley Tarlton	(713) 871-8010
H1276	Houston Police Department	(713) 731-5212

## HUMAN USE RESOURCES

## Beach Access Points

ID	STREET
96	Rollover Pass
97	Rollover Pass
98	Kirks Road
	Mae Street
99	Elizabeth Street
100	Margaret Road
101	Gayle Street
102	Bay Street
103	Beaumont Avenue
104	Austin Drive
105	Faggards Road
106	Chantell Drive
107	Evans Street
108	Legers Street
109	Access Point 7
110	Access Point 6
111	Access Point 5
112	Access Point 4
113	Access Point 3
114	Access Point 2
115	Access Point 1

## Boat Ramps

RARNUM	NAME
H576	High Island State

## Water Intake Points

RARNUM	OWNER	TYPE
H104	U. S. Anahuac Wildlife Refuge	6

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
309	Mink				X	X	X	X	X	X	X	X	X	X	X	-	-	
310	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds																			
307	Gadwall				X	X	X	X					X	X	X	X	-	-	-	-
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
309	Osprey	S	SC		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	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Virginia rail				X	X	X	X	X				X	X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Yellow rail				X	X	X						X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Rails			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Green-winged teal			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	American wigeon			HIGH	X	X	X	X					X	X	X	-	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	X	-	-	-	-
	Northern shoveler				X	X	X						X	X	X	-	-	-	-	-
	Gadwall			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Geese				X	X	X	X					X	X	X	X	-	-	-	-
316	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Cormorant				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Magnificent frigatebird				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	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	X	-	-	-	-
	Piping plover	S/F	T/T		X	X	X	X					X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP

# HIGH ISLAND CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
309	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
310	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
316	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
771	Texas diamondback terrapin	F	C2															
773	Gulf saltmarsh snake	F	C2															

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
310	Tarpon	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern kingfish (whiting)				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
312	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
313	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
314	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
310	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
312	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
313	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

### Plants/Communities

RARNUM	NAME	S/F	T/E
24	Marshhay cordgrass series		
780	Corrells false dragon-head	F	C2
789	Coastal live oak-pecan series		

# HIGH ISLAND

# Map # 30

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoint at mouth of Oyster Bayou can be boomed to protect polygons 1, 2, 3, 4, 5, and 7 from spills from East Bay or GIWW. All of Oyster Bayou is flanked by important natural resources. Lower section of bayou has high banks and could be boomed easily.</i>		
1	Medium	<b>Marsh west of Oyster Bayou.</b> Bird habitat (high), wetlands (high). Anahuac NWR. Continued on Frozen Point quad.
2	High	<b>Lowest western meanders of Oyster Bayou.</b> Bird habitat (high), nursery (high), wetlands (high).
3	Medium	<b>Lowest eastern meanders of Oyster Bayou.</b> Bird habitat (high), nursery (high). <i>Note: this is shown as wetland on the USGS base map, but is now upland with high banks.</i>
4	High	<b>Lowest eastern meanders of Oyster Bayou.</b> Bird habitat (high), nursery (high), wetlands (high).
5	Medium	<b>South of Devil's Elbow.</b> Bird habitat (high), nursery (high).
6	Low	Bird habitat (high) and nursery (medium).
<i>Pinchpoint at water control structure for Anahuac NWR (across GIWW from Horseshoe Bend) can be closed to protect polygon 7.</i>		
<i>Pinchpoint at mouth of East Bay Bayou can be boomed to protect polygon 7 and northwestern section of polygon 10.</i>		
7	Medium	<b>Onion Bayou drainage and extensive marsh to north.</b> Bird habitat (high), wetlands (high). Bulk of Anahuac NWR. Continued on Frozen Point quad.
8	Low	<b>North shore of lower East Bay Bayou.</b> Nursery (medium), wetlands (medium).
9	Medium	<b>Western shore of GIWW at Horseshoe bend.</b> Bird habitat (high), wetlands (medium).
<i>At least eight pinchpoints along shores of GIWW and one south of Horseshoe Bend (at cuts and meanders of Mud Bayou) can be boomed to protect southern sections of polygon 10.</i>		
10	Low	<b>Mud Bayou drainage east of East Bay Bayou (a - d).</b> Wetlands (high). Large area of marsh split by GIWW and Highway 124 into four quadrants (a-d) which can be protected separately. Continued on Mud Lake quad (not provided).
<i>Pinchpoints on south side of GIWW at (1) Brushy Bend Bayou, (2) Strought Bayou, and (3, 4) two unnamed inlets at northward bend of GIWW east of High Island. Can be boomed to protect polygons 11, 12, 13 and 14.</i>		
11	Low	<b>East of High Island.</b> Wetlands (high).
12	Medium	<b>South of road flanking GIWW.</b> Wetlands (high), nursery (medium).
13	Medium	<b>Lower Marsh and Knoll Ponds area.</b> Bird habitat (high), wetlands (high).
14	High	<b>Brushy Bend area.</b> Bird habitat (high), wetlands (high), nursery (medium).
15	Medium	<b>Cove between Lower Marsh and GIWW.</b> Nursery (high), wetlands (high).
16	Medium	<b>(a) Brant Island and (b, c) other islands flanking GIWW.</b> Wetlands (high), nursery (high). Islands can be protected individually.
<i>Pinchpoints along south shore of GIWW, at (1) an unnamed bayou draining Lower Marsh and (2) a dead-end canal east of Gilchrist, can be boomed to protect polygons 13, 17, 18, and 19.</i>		
17	Low	<b>Adjacent to dead-end canal in subdivision east of Gilchrist.</b> Wetlands (high), bird habitat (medium).
18	Low	<b>Marsh between subdivision canals (a, b).</b> Wetlands (medium), bird habitat (medium).
19	Medium	<b>South shore of GIWW.</b> Wetlands (medium), bird habitat (medium), nursery (medium). Polygon transected by subdivision and dead-end canals; northeast and southwest parts can be protected separately.
20	Medium	<b>Mussel Point area.</b> Wetlands (high), nursery (medium).
21	Low	<b>Western hook of island north of Gilchrist.</b> Wetlands (high).
22	Low	<b>Northeastern point of Rollover Bay adjacent to GIWW.</b> Wetlands (medium), bird habitat (low); scattered oysters.
23	High	<b>Islands on north side of Rollover Bay.</b> Bird habitat (high), diamondback terrapin habitat, scattered oysters. Bird nesting area (February-August). Continued on Frozen Point quad. <i>Note: All of Rollover Bay is year-round habitat for diamondback terrapin and a feeding area for piping plover during October through April. Nesting season is February-August in rookeries.</i>

# FROZEN POINT

Map #31

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H567	Charles W. Lauderdale County
H620	Anahuac Nat'l Wildlife Refuge
H621	Anahuac Nat'l Wildlife Refuge

### Water Intake Points

RARNUM	OWNER	TYPE
H096	Solomon Wesley Barrow ET AL	1

## BIOLOGICAL RESOURCES

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds																			
284	American wigeon				X	X	X	X					X	X	X	-	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	-	-	-	-	-
	Northern shoveler				X	X	X	X					X	X	X	-	-	-	-	-
	Geese				X	X	X	X					X	X	X	-	-	-	-	-
	Teals				X	X	X	X					X	X	X	-	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	-	-	-	-	-
	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Virginia rail				X	X	X	X	X				X	X	X	-	-	-	-	-
	Sora rail				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	-	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	King rail				X	X	X	X	X	X	X	X	X	X	X	-	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Yellow rail				X	X	X						X	X	X	-	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
286	Teals				X	X	X	X					X	X	X	-	-	-	-	-
	Geese				X	X	X	X					X	X	X	-	-	-	-	-
	American wigeon				X	X	X	X					X	X	X	-	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	-	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	-	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
287	Teals				X	X	X	X					X	X	X	-	-	-	-	-
	Gadwall				X	X	X	X					X	X	X	-	-	-	-	-
	American wigeon				X	X	X	X					X	X	X	-	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	-	-	-	-	-
	American white pelican				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	-	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
288	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	-	-	-	-	-
292	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
293	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	-	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Common goldeneye				X	X	X	X					X	X	X	-	-	-	-	-
294	Lesser scaup				X	X	X						X	X	X	-	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	-	-	-	-	-
	Magnificent frigatebird				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
295	Shorebirds				X	X	X	X					X	X	X	-	-	-	-	-
297	Green-winged teal				X	X	X						X	X	X	-	-	-	-	-
	Gadwall				X	X	X						X	X	X	-	-	-	-	-
	American wigeon				X	X	X	X					X	X	X	-	-	-	-	-
302	Piping plover	S/F	T/T		X	X	X	X					X	X	X	-	-	-	-	-
	Shorebirds				X	X	X	X					X	X	X	-	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Gulls				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	APR-SEP
303	Shorebirds				X	X	X	X	X				X	X	X	-	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
284	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
302	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
293	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Sand seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Black drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR



# FROZEN POINT CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish Continued

RARNUM	NAME	S/F	T/E	CONCFN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
294	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Silver perch				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Striped mullet			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
297	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
299	Black drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
302	Atlantic croaker			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR

### Shellfish

RARNUM	NAME	S/F	T/E	CONCFN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
293	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
294	Brown shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
297	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Crustaceans				X	X	X	X	X	X	X	X	X	X	X	X	-	-
299	Brown shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
302	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
303	Crustaceans				X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Plants/Communities

RARNUM	NAME	S/F	T/E
286	Salt meadow cordgrass (wiregrass)		
	Salt grass		
	Rushes		
287	Salt grass		
	Salt meadow cordgrass (wiregrass)		
	Rushes		
295	Rushes		
	Salt meadow cordgrass (wiregrass)		
	Salt grass		
297	Smooth cordgrass		
303	Smooth cordgrass		

# FROZEN POINT

Map # 31

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoints on north shore of East Bay, at (1) Robinson Cut and (2) mouth of Robinson Bayou. Can be boomed to protect polygons 1, 2, 3, 4, 5, and 11.</i>		
1	Medium	<b>North shore of East Bay, west of Robinson Cut.</b> Bird habitat (high), wetlands (medium).
2	High	<b>Lower Robinson Cut.</b> Bird habitat (high), nursery (high), wetlands (medium). Control at mouth of Robinson Cut.
3	Low	<b>Willow Marsh (a, b).</b> Wetlands (high). Transected by Robinson Cut. Sections should be handled separately.
4	High	<b>Robinson Lake, Robinson Bayou, upper Robinson Cut.</b> nursery (high), wetlands (high).
5	Medium	<b>North shore of East Bay, west of Robinson Bayou.</b> Bird habitat (high), nursery (high), wetlands (medium).
<i>Pinchpoint on north shore of East Bay at unnamed canal east of Robinson Bayou. Can be boomed to protect polygon 6.</i>		
6	High	<b>North shore of East Bay, east of Robinson Bayou.</b> Bird habitat (high), nursery (medium), wetlands (medium). Part of Anahuac NWR.
<i>Pinchpoint on east shore of East Bay at unnamed canal north of Frozen Point. Can be boomed to protect polygon 7.</i>		
7	Medium	<b>Oyster Bayou drainage.</b> Bird habitat (high), wetlands (medium). Part of Anahuac NWR. Continued on High Island quad.
<i>Pinchpoint at Rollover Pass. Can be boomed to prevent movement of oil between East Bay and Gulf of Mexico.</i>		
8	High	<b>Scattered islands in north Rollover Bay.</b> Bird habitat (high), nursery (low); scattered oysters. Important bird nesting area (February-August). <u>Note:</u> all of Rollover Bay is year-round habitat for diamondback terrapin and seasonal (October-April) feeding area for piping plover. Nesting season is February-August in rookeries.
9	High	<b>Marsh south of GIWW, north of Caplen.</b> Bird habitat (high), wetlands (high), nursery (high).
<i>Pinchpoints along perimeter of Long Point at: (1) Little Pasture Bayou, (2) Sun Oil Company canal, (3) Ghost Bayou, and (4) Big Pasture Bayou. Can be boomed to protect several sections of polygon 10. Sections can be controlled separately.</i>		
10	High	<b>Marsh Point Marsh (Long Point Marsh on USGS basemap).</b> Bird habitat (high), nursery (high), wetlands (high).

## HUMAN USE RESOURCES

## Water Intake Points

RARNUM	OWNER	TYPE
H094	Brown Foundation Inc	6
H095	Louise Barrow Gorton	1

## BIOLOGICAL RESOURCES

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
274	Rails				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	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
277	American wigeon				X	X	X	X						X	X	X	-	-	-	-
	Mallard				X	X	X	X						X	X	X	-	-	-	-
	Teals				X	X	X	X					X	X	X	X	-	-	-	-
	Northern pintail				X	X	X	X					X	X	X	X	-	-	-	-
	Snow goose			HIGH	X	X	X						X	X	X	X	-	-	-	-
	White-fronted goose			HIGH	X	X	X						X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X					X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Canada goose				X	X	X	X					X	X	X	X	-	-	-	-
	Gadwall			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
278	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-
	Waterfowl			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Ruddy duck				X	X	X							X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
280	Magnificent frigatebird				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
277	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
278	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
273	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
274	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
278	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
280	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
273	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
274	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
280	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

## LAKE STEPHENSON

## Map # 32

**Note:** Seagrass beds along southeastern shore of Trinity Bay, south of Lone Oak Bayou. These areas should be avoided during response activities to prevent physical damage to vegetation. Beds may not occur in the same location from year to year.

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoints at (1) Lone Oak Bayou and (2) unnamed inlet south of Lone Oak Bayou. Can be boomed to protect parts of polygons 1, 2, 3, 4, 5, and 6 (Gordy Marsh) from spills from Trinity Bay.</i>		
1	High	<b>Trinity Bay shore.</b> Bird habitat (high), wetlands (high), nursery (medium). <i>Note:</i> USGS base map shows islands paralleling Trinity River Channel that are no longer emergent.
2	Medium	<b>Southern Gordy Marsh.</b> Bird habitat (high), wetlands (high).
3	Medium	<b>Mouth of Lone Oak Bayou.</b> Bird habitat (high), nursery (high).
4	Medium	<b>Lone Oak Bayou drainage, (a) western and (b) eastern segments.</b> Nursery (high), wetlands (high).
5	High	<b>Lower Lone Oak Bayou drainage.</b> Bird habitat (high), nursery (high), wetlands (high).
<i>Pinchpoint at culvert under FM 562 can be boomed to prevent migration of spills between Lone Oak Bayou/Gordy Marsh system and Lake Stephenson/Willow Marsh system.</i>		
6	Low	<b>Lake Stephenson area and northern Willow Marsh.</b> Wetlands (high). Continued on Frozen Point quad.
<i>Pinchpoint at unnamed cut south of Wallis Lake can be boomed to protect polygons 7 and 8 from spills from East Bay.</i>		
7	Medium	<b>Wallis Lake-Lake Surprise area (southern Willow Marsh), (a) northern and (b) southern portions.</b> Wetlands (high), bird habitat (medium). Part of Moody NWR. Continued on Frozen Point quad.
8	Medium	<b>Wallis Lake-Lake Surprise.</b> Wetlands (high), bird habitat (medium), nursery (medium). Waterfowl. Bulk of Moody NWR.
<i>Pinchpoints at (1) Stephenson Point and (2) unnamed inlet east of Stephenson Point can be boomed to protect polygon 9.</i>		
9	Medium	<b>Stephenson Point marsh.</b> Wetlands (high), bird habitat (medium).
10	High	<b>South shore of Smith Point.</b> Year-round diamondback terrapin habitat. Continued on Smith Point quad.
11	High	<b>East Frankland Point.</b> Wetlands (high), nursery (high), diamondback terrapin habitat. Continued on Smith Point quad.
12	High	<b>East Frankland Point.</b> Wetlands (high), nursery (high), diamondback terrapin habitat. Continued on Smith Point quad.

## HUMAN USE RESOURCES

## Boat Ramps

## RARNUM NAME

H568 Smith Point  
H714 James H. Robbins Memorial Park

## BIOLOGICAL RESOURCES

Birds		S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
250	Wood stork	S	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
251	Raptors			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
649	Great blue heron			35	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Snowy egret			40	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Olivaceous cormorant			250	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
	Roseate spoonbill			60	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Black-crowned night heron			6	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
650	White ibis			5000	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Roseate spoonbill			50	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Black skimmer			250	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Laughing gull			15	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Cattle egret			10	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Tricolored heron			5	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Great blue heron			3	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Snowy egret			5	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Olivaceous cormorant			10	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
	Great egret			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Black-crowned night heron			30	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
238	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
771	Texas diamondback terrapin	C2	N															
779	Crawfish frog	NA	N															

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
201	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Least puffer				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
238	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
241	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
243	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
201	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
238	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
241	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
243	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
250	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-

## Plants/Communities

RARNUM	NAME	S/F	T/E	CONCEN
238	Smooth cordgrass			
250	Smooth cordgrass			

# SMITH POINT

Map # 33

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Low	<b>Island west of Smith Point, north of Trinity River Channel.</b> Rookery (high).
2	Low	<b>South shore of Smith Point.</b> Rookery (high). Candy Abshier WMA.
3	Medium	<b>South shore of Smith Point.</b> Wetlands (medium), bird habitat (medium). Candy Abshier WMA.
4	Medium	<b>Smith Point perimeter.</b> Nursery (high), bird habitat (high).
5	High	<b>Smith Point Marsh.</b> Wetlands (high), bird habitat (high), nursery (high).
6	Low	<b>Uplands in Smith Point Marsh.</b> Bird habitat (high).
7	Medium	<b>Vingt-et-Un Islands and Trinity River Channel spoil islands.</b> Rookery (high), nursery (high). <u>Note:</u> Nesting season is February-August in rookeries (polygons 1, 2, 7).
<i>Pinchpoint at mouth of unnamed slough in Smith Point can be boomed to protect polygons 8 and 9.</i>		
8	Medium	<b>Unnamed slough in town of Smith Point (a, b).</b> Wetlands (high), nursery (high).
9	Low	<b>Unnamed slough in town of Smith Point.</b> Nursery (high).
10	High	<b>Frankland Point perimeter.</b> Nursery (high), diamondback terrapin habitat.
11	High	<b>Frankland Point marsh.</b> Wetlands (high), nursery (high), diamondback terrapin habitat.
12	High	<b>East Smith Point benchmark.</b> Year-round diamondback terrapin habitat. Continued on Lake Stephenson quad.

## HUMAN USE RESOURCES

## Boat Ramps

RARNUM	NAME
H546	HL&P Galveston County Park
H604	El Jardin
H724	Galveston County Park

## Marinas

RARNUM	NAME	ADDRESS	PHONE
H128	Texas Corinthian Yacht Club	104 Park Cr. P.O. Box 577 Kemah 77565-0577	(713) 339-1566

## BIOLOGICAL RESOURCES

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
234	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
771	Texas diamondback terrapin	F	C2															

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
229	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Bay anchovy			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
230	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Bay anchovy			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
235	Striped bass				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
388	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
171	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
229	Blue crab			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
230	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
231	Stone crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-SEP
234	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
388	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL

## Plants/Communities

RARNUM	NAME	S/F	T/E
774	Texas windmill-grass	F	C2

## BAYCLIFF

Map # 34

<i>Polygon #</i>	<i>Priority</i>	<i>Description: what organism(s), habitat(s)?</i>
1	High	<b>Bacliff shoreline.</b> Diamondback terrapin habitat.
2	Low	<b>Mouth of unnamed cut between Bacliff and San Leon.</b> Recreational fishing (high).
3	Low	<b>Seabrook shoreline and lower Pine Gully.</b> Wetlands (medium).
4	Low	<b>Red Fish Island.</b> Rookery (medium), when emergent. <u>Note:</u> Red Fish Island is transient and may or may not be emergent from year to year. It is presently all submerged (1993).



## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H574	Clear Lake
H577	Shoreacres
H591	Clear Lake Shores
H600	Timber Cove Subdivision
H608	Walter Hall County Park
H615	Clear Lake Parkside Lift
H617	Sneak'N Out
H622	League City FM 270
H731	Kemah Bridge

### Heliports

RARNUM	MANAGER	PHONE
H1263	Ronald C. Bailey	(713)-483-3196
H1345	D. Bailey	(713)-474-6000

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H122	Capt. Wicks Landing	307 1st st. Kemah 77565	(713) 334-1563
H123	Nassau Bay Yacht Club	1120 NASA Rd. 1 Ste. 315 Houston 77058	(713) 333-2570
H124	South Shore Harbour Marina	2400 South Shore Blvd. League City 77573	(713) 334-0515
H126	Legend Point	1300 Marina Bay Dr Clear Lake Shores 77565	(713) 334-3811
H127	Lakewood Yacht Club	Rt. 1, 2425 NASA Rd. 1 Seabrook 77586	(713) 474-2511
H129	Watergate Yachting Center	1500 FM 2094 Clear Lake Shores 77565-2205	(713) 334-1511
H130	Waterford Harbor Yacht Club	800 Mariners Dr Kemah 77565	(713) 334-4400
H131	Seabrook Shipyard	Rt. 1, Box 76 Seabrook 77586-9801	(713) 474-2586
H132	Bal Harbour	123 Lakeside Lane Nassau Bay 77058	(713) 333-5168
H144	Portofino Harbour	1 Portofino Plaza Clear Lake Shores	(713)-334-6007
H145	Marina Del Sol	1203 Twin Oaks Blvd. Kemah 77565	(713) 334-3909
H146	Lakeside Yachting Center	2515-B NASA Rd. 1 Seabrook 77586	(713) 326-5547
H148	Blue Dolphin Yachting Center	4450 NASA Rd. 1 & 7th Street Seabrook 77586	(713) 474-4450
H149	Nassau Bay Hilton Marina	3000 NASA Rd. 1 Houston 77058	(713) 333-9300
H150	Lafayette Landing	555 Bradford St. Kemah 77565	(713) 334-2284
H151	Anchorage Apartments & Marina	451 Constellation League City 77573	(713) 334-2527
H152	The Landing	4445 NASA Road #1 Seabrook 77586	(713)-326-2714
H153	Marina Bay	4011 NASA Road #1 Seabrook 77586	(713)-326-3344
H154	Houston Yacht Club	3620 Marinar Drive Laporte 77571	(713) 471-1255
H158	Parkside Marina	4949 NASA Rd 1 Seabrook 77586	(713) 326-4949
H159	Clear Lake Marine Center Inc	4141 NASA Rd 1 Seabrook 77586	(713) 326-4626
H442	El Lago Marina	P.O. Box 972 Seabrook 77586	(713) 326-2287

### Water Intake Points

RARNUM	OWNER	TYPE
H059	City of League City	1
H073	Houston L&P-Webster	6

# LEAGUE CITY CONTINUED

## BIOLOGICAL RESOURCES

Birds																				
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
131	Osprey	S	SC		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	-	-	-	-
216	Waterfowl				X	X	X					X	X	X	X	X	-	-	-	-
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wood duck				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
221	Terns				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
781	Attwater's greater prairie-chicken	S/F	E																	
Reptiles/Amphibians																				
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING		
771	Texas diamondback terrapin	F	C2																	
773	Gulf saltmarsh snake	C2	N																	
Fish																				
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV		
216	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
217	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY		
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC		
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT		
218	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
221	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC		
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG		
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC		
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR		
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG		
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT		
226	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR		
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG		
227	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC		
228	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB		
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC		
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR		
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC		
Shellfish																				
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV		
217	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
218	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT		
221	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT		
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
224	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
226	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
227	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
228	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT		
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
Plants/Communities																				
RARNUM	NAME	S/F	T/E																	
224	Smooth cordgrass																			
774	Texas windmill-grass	F	C2																	
	Houston machaeranthera	F	C2																	

# LEAGUE CITY

# Map # 35

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoint where Clear Creek Channel enters Galveston Bay can be boomed to protect polygons 1-10.</i>		
1	Low	<b>(a) Clear Creek, (b) lower Cow Bayou, (c) Clear Lake, Nassau Bay, and Seabrook Slough, (d) Taylor Lake, (e) Taylor Bayou at Red Bluff Road crossing, and (f, g) upper Armand Bayou.</b> Nursery (high).
2	High	<b>(a) Clear Creek meander east of Robinson Bayou and (b - e) fringe marshes in Taylor Bayou drainage.</b> Wetlands (high), bird habitat (high), nursery (high).
3	Medium	<b>Pearce Lake - Clear Creek area and lower Taylor Bayou.</b> Bird habitat (medium), nursery (high).
4	Low	<b>Southern Nassau Lake and shores of lower Taylor Bayou.</b> Bird habitat (high).
<i>Pinchpoint at mouth of Mud Lake can be boomed to protect polygons 5, 6, 8, and part of polygons 1, 7, and 9 from spills in Clear Lake.</i>		
5	High	<b>(a, b) West of Mud Lake - Armand Bayou and (c) northeast of Armand Bayou.</b> Bird habitat (high). Armand Bayou Nature Park.
6	High	<b>Lower Armand Bayou, lower Horsepen Bayou, and western Mud Lake.</b> Wetlands (high), bird habitat (high), nursery (high). Armand Bayou Nature Park.
7	Low	<b>(a, b, e) Armand Bayou periphery, (c, d) shores of lower Horsepen Bayou, and (f, g) shores of Taylor Lake.</b> Bird habitat (high).
8	Medium	<b>Horsepen Bayou.</b> Bird habitat (high), nursery (high).
<i>Pinchpoint at mouth of Taylor Lake can be boomed to protect polygon 10 and parts of polygons 1, 2, 3, 4, 7, and 9 from spills in Clear Lake.</i>		
9	Medium	<b>Fringe marshes in (a) Armand bayou, (b) lower Taylor Lake, and (c - i) Seabrook area.</b> Wetlands (high), bird habitat (high).
10	Medium	<b>Upper Taylor Lake, south of Red Bluff Road.</b> Bird habitat (high), nursery (high).
11	Low	<b>Pirate Island and Seabrook shoreline.</b> Recreational fishing (high).
12	High	<b>Shoreline at Miramar Park-Meador Park.</b> Recreational fishing (high), diamondback terrapin habitat.

## HUMAN USE RESOURCES

## Beach Access Points

ID	STREET
75	Gulfway Street
76	Eastview Street
77	Alberdie Drive
78	Bowers Lane
79	Beaumont Drive
80	Clara Street
81	Gulf Road
82	Center Street
83	Kenlyn Drive
84	Driftwood Street
85	Seadrift Street
86	Ramada Boulevard
87	Nassau Drive
88	Red Fish Street
89	Stingaree Drive
90	Cove Street
91	Caplen Shores Drive
92	Cade Street
93	Gordon Drive
94	Dolly Lane
95	Johnson Road

## Marinas

RARNUM	NAME	ADDRESS	PHONE
H142	Charpiot Marina	109 Redfish Dr Crystal Beach 77651	(409) 684-3070
H143	Stingaree Marina		(409) 684-9530

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
378	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds																			
378	Franklin's gull							X	X	X		X	X	X	X	-	-	-	-	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
378	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Creville jack				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Sharks				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Southern kingfish (whiting)				X	X	X	X	X	X	X	X	X	X	X	X	-	-
380	Flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	-
381	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
382	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	-

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
381	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

# CAPLEN

# Map # 36

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Medium	<b>South of GIWW.</b> Wetlands (high), bird habitat (medium). Several sloughs and canals drain north into GIWW and should be closed off separately.
2	Medium	<b>Southern margin of Marsh Point Marsh, north of GIWW.</b> Bird habitat (high), nursery (high). <i>Pinchpoint at Yates Cove can be boomed to protect polygon 3. Other waterways entering Marsh Point Marsh, including Big Pasture Bayou, shown on Frozen Point quad.</i>
3	High	<b>Southwestern part of Marsh Point Marsh</b> (continued on Frozen Point quad). Bird habitat (high), nursery (high), wetlands (high). <i>Pinchpoints at two inlets to Crab Lake can be boomed to protect polygons 4 and 5 from spills from GIWW.</i>
4	Medium	<b>Crab Lake area.</b> Wetlands (high), bird habitat (medium), nursery (medium).
5	Medium	<b>West of Crab Lake area.</b> Wetlands (high), nursery (medium).

## HUMAN USE RESOURCES

## Beach Access Points

ID	STREET
50	Rettillon Road
51	Magnolia Lane
52	Boyt Street
53	Helen Boulevard
54	Melody Drive
55	Honeysuckle Drive
56	Alma Street
57	Tinkle Lane
58	Jacks Road
59	O'Neal Road
61	Lazy Lane
62	Townsend Street
63	Gulfview Street
64	Surfview Street
65	Holiday Street
66	Palmetto Street
67	Wommack Street
68	West Street
69	Mr. G Street
70	Monkhouse Drive
71	Crystal Beach Road
72	Kahla Drive
73	Gulf Shores Street
74	Westview Street

## Boat Ramps

RARNUM	NAME
H592	Boyt Road
H612	Shirley's Blue Beacon BaitCamp

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
--------	------	-----	-----	--------	---	---	---	---	---	---	---	---	---	---	---	---	--------	---------

377	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
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## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds																			
366	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Piping plover	S/F	T/T		X	X	X	X				X	X	X	X	X	-	-	-	-
	Wilson's plover						X	X	X	X	X	X	X	X			APR-JUN	-	-	-
	Gulls				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	-	-	-	-
	Cormorant				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
372	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
373	Piping plover	S/F	T/T		X	X	X	X	X			X	X	X	X	X	-	-	-	-
375	Piping plover	S/F	T/T		X	X	X	X				X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
377	Franklin's gull							X	X	X		X	X	X	X	X	-	-	-	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
363	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
364	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Black drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
373	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR

# FLAKE CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
374	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
375	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
376	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
377	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Sharks				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Creville jack				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern kingfish (whiting)				X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
296	Crustaceans				X	X	X	X	X	X	X	X	X	X	X	X	-	-
363	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
364	Brown shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
373	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
374	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
376	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

### Plants/Communities

RARNUM	NAME	S/F	T/E
296	Smooth cordgrass		
374	Smooth cordgrass		
375	Smooth cordgrass		

# FLAKE

Map # 37

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoints along perimeter of Elmgrove Point Marsh, at (1) Pepper Grove Cove Bayou, (2) Little Elmgrove Bayou, (3) Big Elmgrove Bayou, and (4) cove just west of Stingaree Point. Can be boomed to protect polygon 1.</i>		
1	High	<b>(a) Northern section of Elmgrove Point Marsh, and (b) small section east of Stingaree Cove.</b> Bird habitat (high), nursery (high), wetlands (high). <u>Note:</u> Upland sections of Elmgrove Point Marsh serve as resting areas for migratory birds.
2	Low	<b>Marsh northeast of Crystal Beach, along GIWW.</b> Wetland (medium), nursery (medium). Tidal cuts can be used to control spills. Continued on Caplen quad.
3	Low	<b>Marsh northwest of Crystal Beach, along GIWW.</b> Wetland (medium), nursery (medium). Tidal cuts can be used to control spills.
<i>Pinchpoint on south shore of GIWW at Dredgeboat Slough can be boomed to protect polygons 4 and 5.</i>		
4	Medium	<b>Northeast of Dredgeboat Slough.</b> Wetlands (medium), nursery (medium), bird habitat (medium).
<i>Pinchpoints at unnamed cuts and sloughs along south shore of GIWW, west of the mouth of Dredgeboat Slough, can be boomed to protect polygon 5.</i>		
5	High	<b>Dredgeboat Slough drainage and marsh to southwest.</b> Wetlands (high), bird habitat (medium), nursery (high).
6	High	<b>Bolivar Peninsula beachfront.</b> Bird habitat (high).
7	Caution	<b>Hanna Reef area.</b> Diamondback terrapin. <u>Note:</u> Isolated oyster reefs in Hanna Reef complex can be exposed during extremely low tides. <u>Note:</u> Piping plover feed along Bolivar Peninsula beachfront during October-April. Other bird species use the area for roosting and feeding throughout the year.



## HUMAN USE RESOURCES

## Boat Ramps

RARNUM	NAME
H550	Texas City Dike
H614	Dan's
H732	Shirley's Cafeteria
H733	Hornbeck's Bait Camp
H743	Texas City Dike

## Heliports

RARNUM	MANAGER	PHONE
H1326	Danny Nasser	(713) 951-4700
H1327	D. G. Nasser	(713) 951-4700

## BIOLOGICAL RESOURCES

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
349	Common goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-
	Common loon	S	SC		X	X	X	X					X	X	X	X	-	-	-	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
349	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Atlantic croaker			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
360	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
362	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
349	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
360	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

## PORT BOLIVAR

Map # 38

<i>Polygon #</i>	<i>Priority</i>	<i>Description: what organism(s), habitat(s)?</i>
1	Medium	<b>Horseshoe Lake area.</b> Wetlands (high), nursery (high). Continued on Galveston quad. Can be protected from spills from Bolivar Roads by booming mouth of Horseshoe Bayou on Galveston quad.
2	Low	<b>Horseshoe Lake-Oyster Lake area.</b> Wetlands (high). Continued on Galveston and Flake quads.
3	Caution	<b>Hanna Reef area.</b> Diamondback terrapin. <u>Note:</u> Isolated oyster reefs in Hanna Reef complex can be exposed during extremely low tides.

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H549	Marge's Bait Camp
H740	50/50 Camp
H741	Rilats and Gastians
H742	Curl's
H744	The Fish Spot
H745	Dickinson's Bayou Public

### Heliports

RARNUM	MANAGER	PHONE
H1300	G. P. Larsen	(409) 938-5000

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H121	Capt. Wally's Marina at April Fool Pt	815 Av O San Leon	(713) 339-1232
H133	Dollar Point	4220 Bay St Extension Texas City	(409) 945-4686
H134	San Leon Marina (Admiralty Trust)	105 6th St. San Leon 77539	(713) 339-1515
H136		Rt 3 Box 375 Dickinson 77539-9801	(713) 339-1194
H147	Eagle Point Camp	101 1st San Leon 77539	(713) 339-1131
H161	Moses Lake Marina	4009 20th St. N Texas City	(409) 943-4444
H162	Ray's Marina	4025 20th St N Texas City 77550	(409) 945-0989

### Water Intake Points

RARNUM	OWNER	TYPE
H056	Sterling Chemicals Inc.	6
H057	Houston L&P-Robinson Plant	6
H058		

## BIOLOGICAL RESOURCES

### Birds

RARNUM	NAME	S/F	T/F	CONCFN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
320	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
330	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
331	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
335	Olivaceous cormorant				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
338	Wading birds				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	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
339	Wading birds				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	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
343	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
347	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				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	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
350	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
356	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
357	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X				X	X	X	X	X	-	-	-	-
781	Attwater's greater prairie-chicken	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/F	CONCFN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
330	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
331	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
335	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL

# TEXAS CITY CONTINUED

BIOLOGICAL RESOURCES CONT.																		
Fish																		
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV.
324	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
326	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
330	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
331	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-SEP
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
335	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
339	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
345	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
347	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
348	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
350	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
Shellfish																		
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV.
324	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
326	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
330	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
331	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
335	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
339	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
345	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
347	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
348	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

# TEXAS CITY CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Plants/Communities

RARNUM	NAME	S/E	T/E
320	Smooth cordgrass		
338	Salt meadow cordgrass (wiregrass)		
	Smooth cordgrass		
	Rushes		
347	Salt meadow cordgrass (wiregrass)		
	Smooth cordgrass		
	Rushes		
350	Smooth cordgrass		
356	Smooth cordgrass		
	Rushes		
	Salt meadow cordgrass (wiregrass)		
357	Smooth cordgrass		
770	Smooth blue-star	F	3C
774	Texas windmill-grass	F	C2
778	Houston machaeranthera	F	C2
782	Coastal gay-feather		

# TEXAS CITY

# Map # 39

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoint where Highway 146 crosses Dickinson Bayou can be boomed to protect polygons 1 from spills in Galveston Bay or Dickinson Bay.</i>		
1	Medium	<b>Shores of Dickinson Bayou (a - f).</b> Nursery (high), wetlands (high). Several fringe marshes, can be protected separately. <u>Note:</u> diamondback terrapin habitat in area where Highway 146 crosses Dickinson Bayou.
2	Low	<b>Mouth of Dickinson Bay.</b> Nursery (medium), seasonal rookery (medium); extensive oysters. <u>Note:</u> diamondback terrapin habitat in Dickinson Bay and in Galveston Bay between Miller Point and Dollar Point. Colonial waterbird nesting (such as in polygon 2) February - August.
<i>Moses Lake floodgate can be closed to restrict flow in or out of Moses Lake and Dollar Bay. Can be closed to protect polygons 3-12 from spills in Galveston Bay.</i>		
3	High	<b>Moses Lake shoreline at Shell Island.</b> Bird habitat (high), nursery (high), wetlands (high).
4	High	<b>Islands in Moses Lake.</b> Bird habitat (high), nursery (high), oyster reef (low).
5	High	<b>Edwards Point area.</b> Bird habitat (high), nursery (high), wetlands (high).
6	Medium	<b>Moses Lake and Dollar Bay.</b> Nursery (high), bird habitat (medium).
7	High	<b>East of Dollar Bay.</b> Bird habitat (high), nursery (high), wetlands (high).
8	Medium	<b>Southern shore of Dollar Bay (a, b).</b> Wetlands (high), bird habitat (medium).
9	Low	<b>South of Dollar Bay.</b> Wetlands (high).
10	High	<b>Upper Moses Lake.</b> Nursery (high), wetlands (high), bird habitat (medium).
<i>Pinchpoint at mouth of Moses Bayou can be boomed to protect polygons 11 and 12 from spills from Moses Lake-Dollar Bay.</i>		
11	High	<b>Mouth of Moses Bayou.</b> Nursery (high), wetlands (high), bird habitat (medium).
12	Medium	<b>Moses Bayou.</b> Nursery (high), wetlands (high).
13	High	<b>Dickinson Bay, mouth of Moses Lake.</b> Diamondback terrapin.

# THE JETTIES

# Map #40

## HUMAN USE RESOURCES

### Beach Access Points

ID	STREET
44	Boddecker Drive
47	17th Street
48	18th Street
49	22nd Street

### Heliports

RARNUM	MANAGER	PHONE
H1204	James C. Henderson Director	(409) 765-6161

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
444	Stenellid dolphin				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
442	Long-billed curlew	S	SC		X	X	X						X	X	X	X	-	-	-	-
	Western sandpiper				X	X	X	X					X	X	X	X	-	-	-	-
	Gulls				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	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Least tern	F	E			X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Cormorant				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-necked stilt				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Red-tailed hawk				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	American white pelican				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-bellied plover					X	X	X				X	X	X	X	X	-	-	-	-
	Short-billed dowitcher				X	X	X	X					X	X	X	X	-	-	-	-
	Wilson's plover					X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-	-
	Shorebirds			HIGH	X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X					X	X	X	X	-	-	-	-
	Dunlin				X	X	X	X	X				X	X	X	X	-	-	-	-
	Semipalmated sandpiper				X	X	X	X					X	X	X	X	-	-	-	-
443	Piping plover	S/F	T/T	HIGH	X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern	F	E			X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-necked stilt				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Piping plover	S/F	T/T	HIGH	X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X				X	X	X	X	X	-	-	-	-
444	Red-tailed hawk				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	-	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
445	Magnificent frigatebird				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Short-billed dowitcher				X	X	X	X				X	X	X	X	X	-	-	-	-
	Magnificent frigatebird				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Dunlin				X	X	X	X	X				X	X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	S/F	T/T	HIGH	X	X	X	X	X			X	X	X	X	X	-	-	-	-
	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Western sandpiper				X	X	X	X					X	X	X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X			X	X	X	X	X	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
444	Loggerhead sea turtle	S/F	E/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-

# THE JETTIES CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
444	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	King mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
446	Longnose killifish				X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
442	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
444	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
445	Stone crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-SEP

### Plants/Communities

RARNUM	NAME	S/F	T/E
443	Smooth cordgrass		
446	Smooth cordgrass		



## THE JETTIES

Map # 40

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	High	<b>Marsh south of Route 87 (from Flake quad).</b> Bolivar Flats. Nursery (high), wetlands (medium). Most important use area on Texas coast for piping plover, other shorebirds. <u>Note:</u> Piping plover feed along Bolivar Peninsula beachfront during October-April. Other bird species use the area for roosting and feeding throughout the year.
2	High	<b>Southern Bolivar Peninsula.</b> Nursery (high). Piping plover, other shorebirds. Continued on Flake quad. <u>Note:</u> Colonial waterbirds nest in area February-August.
<i>Pinchpoint between bait camps and sand point can be boomed to protect polygons 3, 4, and 5 from spills in Bolivar Roads.</i>		
3	Low	<b>Galveston Island sand spit.</b> Bird habitat (high). Rookery.
<i>Pinchpoint at culvert where road crosses mouth of The Lagoon can be boomed to protect polygon 4 (on The Jetties quad) and polygon 12 (on Galveston quad).</i>		
4	Medium	<b>Old Fort San Jacinto and The Lagoon.</b> Wetlands (high), nursery (high).
<i>Pinchpoint at unnamed inlet can be boomed to protect polygon 5.</i>		
5	Low	<b>Unnamed inlet at Old Fort San Jacinto.</b> Wetlands (high).

# GALVESTON

# Map #41

## HUMAN USE RESOURCES

### Beach Access Points

ID	STREET
45	15th Street
46	16th Street

### Boat Ramps

RARNUM	NAME
H551	Texas City Dike Marina
H597	Havre Lafitte
H715	TAMU Oil Spill Control
H716	TAMU Oil Spill Control
H734	Turtle Lake Apartments
H735	Pleasure Island
H746	Ermin Pilsner Public

### Coast Guard Facilities

RARNUM	NAME	PHONE
H427	Galveston Group/Base/Ant	(409) 766-5605
H428	MSU Galveston	(409) 766-3655

### Heliports

RARNUM	MANAGER	PHONE
H1199	UTMB Life Flight	(409) 772-4355
H1201	Donny Grasso	(713) 488-7161
H1200	J. E. Whitman	(504) 588-4591

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H135	Roberts/Zimmerman Marina	9415 Teichman Galveston 77554-9803	(409) 740-1310
H140	Galveston Yacht Basin	715 Holiday Dr. North Galveston 77550	(409) 762-9689
H141	The Landings of Galveston	7302 Heard's Lane Galveston 77551	(409) 744-3625
H160	Payco Marina Inc.	8821 Broadway Galveston 77551	(409) 744-7428

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
412	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
415	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
417	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
431	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
566	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
177	Least tern	F	E					X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
415	Common loon	S	SC		X	X	X	X						X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-
	Common goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
416	Common goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X						X	X	X	X	-	-	-	-
	Common loon	S	SC		X	X	X	X					X	X	X	X	-	-	-	-
417	Magnificent frigatebird				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
418	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
427	Laughing gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
566	Franklin's gull							X	X	X	X	X	X	X	X	X	-	-	-	-
661	Royal tern			11000	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Black-crowned night heron			100	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Sandwich tern			5600	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Gull-billed tern			6	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Tricolored heron			40	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Great blue heron			20	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Snowy egret			20	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Cattle egret			50	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Laughing gull			2200	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Great egret			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Roseate spoonbill			20	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Black skimmer			250	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Forster's tern			30	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Brown pelican	F	E	1	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Reddish egret	S	T	0	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	White ibis			10	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL

# GALVESTON CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Birds Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
661 Cont.	White-faced ibis	S	T	30	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
662	Laughing gull			21115	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Gull-billed tern			15	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
417	Kemp's ridley sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Loggerhead sea turtle	S/F	E/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
771	Texas diamondback terrapin	F	C2															
773	Gulf saltmarsh snake	F	C2															

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
409	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Crevalle jack				X	X	X	X	X	X	X	X	X	X	X	X	-	-
411	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
412	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
415	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
416	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
417	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
418	Sand seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
420	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
431	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
566	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Sharks				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gray snapper				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
409	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Stone crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-SEP
412	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
415	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
416	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
417	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
420	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
431	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
566	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-

# GALVESTON CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Plants/Communities

PARNUM	NAME	S/E	T/F
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427	Cordgrass		
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661	Smooth cordgrass		
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# GALVESTON

# Map # 41

Note: Nesting season is February-August at Pelican Island rookeries (polygons 1, 2, 5, 6, 7, 8, 9).

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Medium	<b>Pelican Island Spit, north of GIWW.</b> Nursery and fishing (medium), rookery (medium). Pelican Island Spit contains largest rookery area in Galveston Bay System.
2	High	<b>Lee of Pelican Island Spit.</b> Wetlands (high), nursery (medium), fishing area (medium), rookery (medium); oyster reef emergent during low tides.
3	Medium	<b>West shore of Pelican Island.</b> Wetlands (high), nursery (medium).
4	Low	<b>Western Pelican Island.</b> Wetlands (high).
5	Medium	<b>Northwestern Pelican Island.</b> Wetlands (high), rookery (high), nursery (medium).
6	Medium	<b>Central Pelican Island.</b> Large rookery area (high).
7	High	<b>Northeastern shore of Pelican Island.</b> Wetlands (high), nursery (medium), rookery (medium).
8	Medium	<b>Off northeastern shore of Pelican Island.</b> Nursery (medium), fishing area (medium), rookery (medium).
9	Medium	<b>Eastern shore of Pelican Island.</b> Nursery (medium), fishing area (medium), rookery (medium).
<i>Pinchpoints (1) at mouth of Horseshoe Bayou and (2) at Loop 108 crossing (south of Port Bolivar) can be boomed to protect polygons 10 and 11.</i>		
10	Medium	<b>Marsh surrounding Horseshoe Lake.</b> Nursery (high), wetlands (high). Continued on Port Bolivar quad.
11	Medium	<b>Horseshoe Lake.</b> Nursery (high), wetlands (high). Continued on Port Bolivar quad.
12	Medium	<b>The Lagoon.</b> Nursery (high), wetlands (high). Heavy recreational fishing.
13	Low	<b>Offatt Bayou.</b> Nursery and fishing areas (medium), oysters (medium). Continued on Virginia Point quad.
14	Medium	<b>South shore of Offatt Bayou.</b> Wetlands (high), nursery (medium).
<i>Pinchpoint where 99th Street crosses Sydnor Bayou can be boomed to protect polygon 15.</i>		
15	Medium	<b>East shore of Sydnor Bayou.</b> Wetlands (high), nursery (medium).

# VIRGINIA POINT

Map #42

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H552	Bayou Vista Bait and Tackle
H553	Louis's
H565	8-Mile Road Bait Camp
H613	Sportsman Road
H736	Harbor Cove
H737	Charlie's Landing
H738	Jones Lake State
H739	Omega Bay

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H157	Teakwood Marina	400 Tiki Drive Village of Tiki Island 7755	(409) 935-5552

### Water Intake Points

RARNUM	OWNER	TYPE
H748	Texas Copper Corporation	1

## BIOLOGICAL RESOURCES

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds																			
384	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
386	Rails				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	-	-	-	-
389	Rails				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	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
390	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
392	Black skimmer			15	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Laughing gull			200	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Tricolored heron			9	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
395	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
398	Cattle egret				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Little blue heron			5	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Olivaceous cormorant			200	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Tricolored heron			125	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Great egret			200	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Reddish egret	S	T	10	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	White-faced ibis	S	T	100	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Roseate spoonbill			200	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	American oystercatcher			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	MAY-AUG	MAY-SEP
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Caspian tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	MAR-JUN	MAR-JUL
	Sanderling				X	X	X	X									-	-	-	-
	Forster's tern			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Laughing gull			1200	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Black-crowned night heron			8	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	White ibis			1000	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Snowy egret			60	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Long-billed curlew	S	SC		X	X	X										-	-	-	-
	Ruddy turnstone				X	X	X										-	-	-	-
	Great blue heron			200	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
401	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Forster's tern			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Caspian tern			200	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	MAR-JUN	MAR-JUL
	Ruddy turnstone				X	X	X										-	-	-	-
	Sanderling				X	X	X										-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	American oystercatcher			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	MAY-AUG	MAY-SEP
	Long-billed curlew	S	SC		X	X	X										-	-	-	-
	Laughing gull			200	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Least tern	F	E	4		X	X	X	X	X	X	X					APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Great egret			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Little blue heron			5	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Great blue heron			10	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy egret			1	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	White ibis			12	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
402	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

# VIRGINIA POINT CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Birds Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
403	American oystercatcher			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	MAY-AUG	MAY-SEP
656	Forster's tern			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Laughing gull			40	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Royal tern			20	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
660	Gull-billed tern			5	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Forster's tern			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Black skimmer			260	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING		
323	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL		
390	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL		
398	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL		
771	Texas diamondback terrapin C2		N																	

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV		
385	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC		
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR		
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB		
389	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB		
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
390	Bull shark				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR		
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY		
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
392	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC		
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG		
395	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR		
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC		
	Seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
396	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR		
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY		
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC		
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC		
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC		
402	Longnose killifish				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
407	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT		
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC		
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY		
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC		
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC		

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV		
323	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
384	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
385	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
386	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
390	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
392	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
	Brown shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
395	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT		
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
396	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
	Brown shrimp			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
398	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
401	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
403	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
407	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL		
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG		
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN		
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT		

# VIRGINIA POINT

# Map # 42

Note: All of West Bay on Virginia Point quad contains oyster beds that can be exposed at low tide.

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoint at mouth of Little Greens Bayou can be boomed to protect polygons 3, 4, and part of polygon 1 from spills in Greens Lake.</i>		
1	High	<b>Marshes flanking Greens Lake (a, b, c).</b> Wetlands (high), bird habitat (high), nursery (high). Continued on Hitchcock quad.
2	Medium	<b>Greens Lake.</b> Bird habitat (high), nursery (high), scattered oysters. Continued on Hitchcock quad.
3	Medium	<b>North of Greens Lake.</b> Wetlands (high), nursery (high).
4	Low	<b>Areas north of Greens Lake and west of failed Flamingo Isle subdivision (a, b, c).</b> Wetlands (high).
<i>Pinchpoints at (1) mouth of Basford Bayou and (2) canal off north shore of Highland Bayou diversionary canal can be boomed to protect polygons 5, 6, and parts of 7 and 8 from spills in Jones Bay.</i>		
<i>Pinchpoints at (1) mouth of Highland Bayou and (2, 3) several cuts along north shore of Jones Bay (some not shown on USGS base map) can be boomed to protect polygon 5 and eastern portions of polygons 6 and 7 from spills in Jones Bay.</i>		
5	Low	<b>(a) Upper Basford Bayou and (b) lower Highland Bayou and associated marsh.</b> Nursery (high).
6	Medium	<b>Marshes west and east of Highland Bayou, north of Jones Bay.</b> Wetlands (high), nursery (high).
7	High	<b>(a) North shore of Jones Bay, east of Highland Bayou, and (b) lower Basford Bayou drainage and area west of Highland Bayou.</b> Wetlands (high), bird habitat (high), nursery (high).
8	Low	<b>West shore of Jones Bay, north of mouth of Basford Bayou.</b> Bird habitat (high).
9	High	<b>Jones Bay.</b> Nursery (high), bird habitat (medium). Diamondback terrapin habitat (seasonal). <i>Note: All rookeries are seasonally active; colonial waterbirds nesting February - August.</i>
10	High	<b>Islands in Jones Bay.</b> Nursery (high), rookery (low). Diamondback terrapin habitat (seasonal).
11	High	<b>South Jones Bay islands, parallel to GIWW.</b> Rookery (medium). Diamondback terrapin habitat.
12	High	<b>Northern North Deer Island and southern perimeter.</b> Rookery (high), nursery (high). Diamondback terrapin habitat.
13	High	<b>Marshes in southern North Deer Island.</b> Wetland (high), rookery (high), nursery (high). Diamondback terrapin habitat.
14	Medium	<b>Jigsaw Island and islets: (a) east of North Deer Island parallel to GIWW, (b) west of Teichman Point.</b> Rookery (high), nursery (high).
15	High	<b>South Deer Island.</b> Wetlands (high), nursery (high), rookery (high).
<i>Pinchpoint at mouth of Sweetwater Lake can be boomed to protect polygons 16 and 17 (and polygon of Lake Como quad) from spills in West Bay or Galveston Bay.</i>		
16	Low	<b>Sweetwater Lake.</b> Nursery (high).
17	Medium	<b>Interdune marshes flanking Sweetwater Lake (a-e).</b> Wetlands (high), nursery (high).
<i>Pinchpoint at culvert near end of Sportsmans Road (Anderson Ways) can be boomed to protect polygons 18 and 19 from spills in West Bay.</i>		
18	Low	<b>South of Anderson Ways.</b> Wetlands (high).
19	High	<b>Lower Gangs Bayou.</b> Wetlands (high), nursery (high), birds habitat (high); scattered oysters emergent at low tides. Continued on Lake Como quad.
<i>Pinchpoints at mouth of Campbell Bayou and northern entrance to Swan Lake (not shown on USGS base map) can be boomed to protect polygons 20-22 and part of 23 from spills in Galveston Bay.</i>		
20	Low	<b>West of Swan Lake.</b> Wetlands (high).
21	Medium	<b>Western shoreline of Swan Lake.</b> Wetlands (high), bird habitat (high).
22	High	<b>Northern (a, b), eastern (c), and southern (d, e) shores of Swan Lake.</b> Wetlands (high), bird habitat (high), nursery (medium).
23	Medium	<b>Swan Lake (a) and Galveston Bay shoreline at Swan Lake (b).</b> Bird habitat (high), nursery (medium).
24	Low	<b>West Offatt Bayou.</b> Nursery and fishing (medium), oysters (medium). Continued on Galveston quad.



## HUMAN USE RESOURCES

## Boat Ramps

RARNUM	NAME
H610	Hitchcock Public

## Heliports

RARNUM	MANAGER	PHONE
H1162	D. W. Wostal Sr.	(409) 925-2537
H1208	Felton M. Baker	(713) 485-1777

## BIOLOGICAL RESOURCES

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
395	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
779	Crawfish frog																	

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
395	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
171	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
395	Crustaceans				X	X	X	X	X	X	X	X	X	X	X	X	-	-

## Plants/Communities

RARNUM	NAME	S/F	T/E
782	Coastal gayfeather		

# HITCHCOCK

Map # 43

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
<i>Pinchpoint at the mouth of Carancahua Bayou (on Sea Isle quad) can be boomed to protect polygons 1, 2, 4, and 6 from spills in GIWW.</i>		
1	Low	<b>West of Carancahua Bayou.</b> Wetlands (high).
2	Medium	<b>East of Carancahua Bayou.</b> Wetlands (high), nursery (high).
3	Medium	<b>(a) West and (b) northwest of Greens Lake.</b> Wetlands (high), bird habitat (high).
<i>Pinchpoint at mouth of Greens Bayou can be boomed to protect polygon 4 from spills in Greens Lake.</i>		
4	High	<b>Greens Lake - Carancahua Lake Marsh.</b> Wetlands (high), bird habitat (high), nursery (high). Continued on Sea Isle, Virginia Point quads.
5	Medium	<b>Greens Lake (a, b).</b> Bird habitat (high), nursery (high). Continued on Virginia Point quad.
6	Medium	<b>Carancahua Lake.</b> Bird habitat (high), nursery (high); scattered oysters. Continued on Sea Isle quad.

HUMAN USE RESOURCES		
Heliports		
RARNUM	MANAGER	PHONE
H1202	Not Available	N/A

## HUMAN USE RESOURCES

## Beach Access Points

ID	STREET
33	Kiva Road
34	Indian Beach Road
35	Habla Road
36	16 Mile Road
37	15 Mile Road
38	13 Mile Road
39	Turks Point Road
40	Vista Boulevard
41	11 Mile Road
42	Pabst Road
43	8 Mile Road
116	Sandpiper Lane
117	Pelican Lane
118	Spoonbill Lane
119	Pirates Lane
120	Maison Rouge Court
121	Barataria Court
122	Campeche Lane
123	Buccaneer Street
124	Long Tom Court
125	San Domingo Court
126	Raquer Boulevard
127	Fiddler Crab Lane
128	Ghost Crab Lane
129	Sand Crab Lane
130	Buccaneer Drive

## Boat Ramps

RARNUM	NAME
H564	Jamaica Beach

## Marinas

RARNUM	NAME	ADDRESS	PHONE
H139	Pirates Beach Marina	14302 Stewart Rd. Galveston 77550	(409) 737-2592

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
566	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds																			
483	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
494	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Gulls				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	-	-	-	-
498	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
503	Great blue heron	8			X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Roseate spoonbill	2			X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Forster's tern	50			X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Laughing gull	600			X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Great egret	10			X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Tricolored heron	14			X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Snowy egret	1			X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Hooded merganser				X	X	X	X									-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Little blue heron	2			X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	White ibis				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
506	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X									-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Reddish egret		S	T	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Forster's tern	25			X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Laughing gull	200			X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	White ibis				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
512	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
566	Franklin's gull								X	X	X	X	X	X	X	X	-	-	-	-
671	Forster's tern	30			X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Snowy egret	6			X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Laughing gull	400			X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	White ibis	8			X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Tricolored heron	8			X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP

# LAKE COMO CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
773	Gulf saltmarsh snake	F	C2															

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
485	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
494	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Sand seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
495	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
498	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
499	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
503	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
507	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
512	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
566	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Sharks				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gray snapper				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
483	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
485	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
494	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
495	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Grass shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
499	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
503	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
506	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
507	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Stone crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-SEP
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
512	Crustaceans				X	X	X	X	X	X	X	X	X	X	X	X	-	-
566	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

# LAKE COMO CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Plants/Communities

PARNUM	NAME	S/E	T/E
136	Smooth cordgrass series		
430	Glasswort-saltwort series		
483	Cordgrass		
494	Cordgrass		
503	Cordgrass		
506	Cordgrass		
512	Cordgrass		
783	Grand prairie evening-primrose		
786	Seacoast bluestem-aulfdune paspalum series		
787	Sea oats-bitter panicum series		

# LAKE COMO

# Map # 45

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	Medium	<b>Jumbile Cove.</b> Bird habitat (high), nursery (high). Continued on Sea Isle quad.
<i>Pinchpoint at mouth of unnamed slough in Jumbile Cove can be boomed to protect polygon 3 and part of polygon 2 from spills in West Bay.</i>		
2	High	<b>Jumbile Cove marshes, west of Jamaica beach.</b> Wetlands (high), bird habitat (high), nursery (high); scatter oysters. Continued on Sea Isle quad.
3	Medium	<b>Upland marsh in Jumbile Cove area, (a) west and (b) southwest of Jamaica Beach.</b> Wetlands (high), nursery (high).
4	Medium	<b>(a) Carancahua Cove and (b) Dana Cove.</b> Bird habitat (high), nursery (high). Galveston Island State Park.
<i>Pinchpoints at (1) Carancahua Bayou, (2) Jenkins Bayou (unlabeled on USGS base map), (3) Butterow Bayou, (4) Oak Bayou, and (5) mouth of Lake Como can be boomed to protect polygons 5, 6, 7 from spills in West Bay.</i>		
5	High	<b>Marsh and slough complex northeast of Jamaica Beach (a, b).</b> Wetlands (high), bird habitat (high), nursery (high). Galveston Island State Park.
6	High	<b>Marshes (a) west and (b) east of upper Oak Bayou.</b> Bird habitat (high). Galveston Island State Park.
7	High	<b>Lake Como.</b> Bird habitat (high), nursery (high). Galveston Island State Park.
<i>Pinchpoint at (1) Eckert Bayou, (2) Mensell Bayou, and (3) Oxen Bayou can be boomed to protect polygons 8-12 from spills in West Bay.</i>		
8	Medium	<b>Northeastern shore of Delehide Cove.</b> Wetlands (high), nursery (high).
9	High	<b>Marshes flanking Eckert Bayou, Starvation Cove, Mensell Bayou, Melager Cove, and Oxen Bayou (a - c).</b> Wetlands (high), bird habitat (high), nursery (high).
10	Medium	<b>(a) Eckert Bayou, (b) Starvation Cove, (c) Mensell Bayou, (d) Melager Cove, and (e) Oxen Bayou.</b> Bird habitat (high), nursery (high).
11	Medium	<b>High marsh between Eckert Bayou and subdivision canal south of Mensell Bayou.</b> Wetlands (high), bird habitat (high).
12	Low	<b>Uplands (a) east of Eckert Bayou and (b) south of Oxen Bayou.</b> Bird habitat (high).
<i>Pinchpoint at mouth of Gangs Bayou (on Virginia Point quad) can be boomed to protect polygons 9, 13, 14, and 15 from spills in West Bay.</i>		
13	Medium	<b>North shore of Gangs Bayou.</b> Wetlands (high), nursery (high). Continued on Virginia Point quad.
14	Low	<b>Upper Gangs Bayou.</b> Nursery (high).
15	Low	<b>Interdune marshes east of Gangs Bayou.</b> Wetlands (high). Continued on Virginia Point quad.
<i>Pinchpoint at mouth of Sweetwater Lake (on Virginia Point quad) can be boomed to protect polygon 16 from spills in West Bay.</i>		
16	Low	<b>Sweetwater Lake.</b> Nursery (high). Continued on Virginia Point quad.

## HUMAN USE RESOURCES

## Beach Access Points

ID	STREET
30	Terramar Beach
31	Gulf Drive
32	San Jacinto Road

## Boat Ramps

RARNUM	NAME
H561	Bay Harbor
H562	Terramar Beach

## Marinas

RARNUM	NAME	ADDRESS	PHONE
H138	Marina at Sea Isle		(409) 737-3636

## BIOLOGICAL RESOURCES

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
465	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
472	Terns				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	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
473	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Waterfowl				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Rails				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	-	-	-	-
	Teals				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	-	-	-	-
475	Wading birds				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	-	-	-	-
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
476	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
477	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
479	Sandhill crane				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
323	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
473	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
474	American alligator				X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-DEC
475	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
464	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Atlantic croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
465	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
466	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Atlantic croaker			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
469	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
471	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
474	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB



# SEA ISLE CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
474 Cont.	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
475	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf menhaden			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Threadfin shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
476	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
477	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
478	Sand seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Atlantic croaker			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
480	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
174	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
323	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
464	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
465	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
466	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
469	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
471	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
473	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
474	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
475	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
476	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
477	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
478	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

# SEA ISLE

# Map # 46

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	Low	<b>Eastern Chocolate Bay.</b> Nursery (high); oysters may be exposed at low tide. Continued on Hoskins Mound quad.
2	High	<b>Eastern edge of Chocolate Bay.</b> Bird habitat (high), nursery (high); scattered oyster beds may be exposed at low tide. Diamondback terrapin habitat.
3	High	<b>Eastern shore of Chocolate Bay.</b> Wetlands (high), bird habitat (high), nursery (high). Diamondback terrapin habitat.
<i>Pinchpoint at The Narrows can be boomed to protect polygons 4-8 from spills in Chocolate Bay.</i>		
4	Medium	<b>South Halls Lake.</b> Bird habitat (high), nursery (high); scattered oyster beds may be exposed at low tide.
5	Low	<b>North Halls Lake.</b> Nursery (high).
<i>Pinchpoint at mouth of Halls Bayou can be boomed to protect polygons 6, 7, and 8 from spills in Halls Lake.</i>		
6	Medium	<b>Lower Halls Bayou and Chocolate Bay marshes.</b> Wetlands (high), nursery (high).
7	Low	<b>West of Halls Bayou.</b> Wetlands (high).
8	Low	<b>Upper Halls Bayou.</b> Nursery (high).
9	Medium	<b>North and northeast of Cedar Lake-McGinnis Pits area (a - c).</b> Wetlands (high), bird habitat (high).
<i>Pinchpoint at mouth of Cow Bayou can be boomed to protect polygon 10 from spills in GIWW.</i>		
10	High	<b>McGinnis Pits - Cedar Lake area.</b> Wetlands (high), nursery (high), bird habitat (high).
<i>Pinchpoint at mouth of Carancahua Bayou can be boomed to protect polygons 11 and 12 from spills in GIWW.</i>		
11	High	<b>Carancahua Lake marshes (a, b).</b> Wetlands (high), nursery (high), bird habitat (high).
12	Medium	<b>Carancahua Lake.</b> Bird habitat (high), nursery (high).
13	Medium	<b>West Bay coves and inlets along Galveston Island (a, b).</b> Bird habitat (high), nursery (high). Continued on Lake Como quad.
14	High	<b>Marshes on north side of Galveston Island, east of Sea Isle.</b> Wetlands (high), bird habitat (high), nursery (high). Continued on Lake Como quad.
15	Low	<b>Upland marshes, Galveston Island.</b> Bird habitat (high). Continued on Lake Como quad.
16	Medium	<b>West Bay shoreline southwest of Bay Harbor.</b> Wetlands (high), nursery (high).
17	Medium	<b>Islands west of Alligator Point.</b> Rookery (high), nursery (high). Continued on Hoskins Mound quad.
18	Medium	<b>East of Jumbile Cove.</b> Bird habitat (high), nursery (high). Continued on Sea Isle quad.

# HOSKINS MOUND

Map #47

## HUMAN USE RESOURCES

### Aquaculture Sites

RARNUM	NAME	ADDRESS	PHONE
H003	D & C Fishfarm Inc	County Road 316 Port Lavaca 77465	(713) 729-1105

### Boat Ramps

RARNUM	NAME
H281	Horseshoe Bend Camp Boat Shed
H556	Chocolate Bay State

### Heliports

RARNUM	MANAGER	PHONE
H1163	Brian Dinsmoor	(713) 581-3100

### Water Intake Points

RARNUM	OWNER	TYPE
H120	Amoco Chemicals Co.	6

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
456	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
449	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
454	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
457	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
458	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
459	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Wading birds				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	-	-	-	-

### Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
219	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
323	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
447	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
448	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
454	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL
459	Diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	MAY-JUL

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
448	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
449	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
454	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
456	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
457	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
458	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

# HOSKINS MOUND CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
459	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
460	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
461	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
462	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
521	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
323	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
449	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
454	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
456	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
457	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
458	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
459	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
460	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
461	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
462	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

### Plants/Communities

RARNUM	NAME	S/F	T/E
447	Rushes		
448	Rushes		
457	Smooth cordgrass		
	Salt meadow cordgrass (wiregrass)		
460	Rushes		
	Common reed		
	Bulrush		
24	Marshhay cordgrass series		
775	Threeflower broomweed		

# HOSKINS MOUND

Map # 47

Polygon #	Priority	Description: what organism(s), habitat(s)?
1	High	<b>Northern Oyster Lake.</b> Nursery (high), bird habitat (medium); oyster beds may be exposed at low tides. Continued on Christmas Point quad. Brazoria NWR.
2	High	<b>Northeastern shore of Oyster Lake.</b> Wetlands (high), bird habitat (high), nursery (high). Brazoria NWR.
3	High	<b>Northeast of Oyster Lake.</b> Wetlands (high), bird habitat (high). Brazoria NWR.
<i>Pinchpoint at unnamed bayou north of Oyster Lake can be boomed to protect polygon 5 and southern portions of polygons 4 and 6 from spills in GIWW.</i>		
<i>Pinchpoint at mouth of Wharton Bayou can be boomed to protect northern portions of polygons 4 and 6 from spills in GIWW.</i>		
4	High	<b>(1) Wharton Bayou drainage and (2) area northwest of Oyster Lake, including lower Alligator Bayou drainage (continued on Christmas Point quad).</b> Wetlands (high), bird habitat (high), nursery (high). Brazoria NWR.
5	SAV	<b>Seagrass sink northwest of Oyster Lake.</b> SAV (high), wetlands (high), nursery (high), bird habitat (high). Brazoria NWR.
6	High	<b>(a) Area north of Oyster Lake and (b, c, d) upper Wharton Bayou drainage.</b> Wetlands (high), bird habitat (high). Brazoria NWR.
7	Medium	<b>Island southwest of Alligator Point (Sea Isle quad).</b> Nursery (high), bird habitat (medium); oyster beds may be exposed at low tide.
8	Low	<b>Lower Chocolate Bay.</b> Nursery (high); scattered oyster beds may be exposed at low tide.
<i>Pinchpoint at mouth of New Bayou can be boomed to protect polygons 9, 12, and 13 from spills in Chocolate Bay.</i>		
9	High	<b>Northeast shore of lower Chocolate Bay (a, b).</b> Wetlands (high), nursery (high), bird habitat (high). Diamondback terrapin habitat.
10	High	<b>Upper Chocolate Bay.</b> Nursery (high); scattered oyster beds may be exposed at low tide. Diamondback terrapin habitat.
11	High	<b>Fringe marshes and islands in lower Chocolate Bayou and upper Chocolate Bay (including Horseshoe Bend, Grassy Point, and Horse Grove Point: a - I).</b> Wetlands (high), nursery (high), bird habitat (high). Diamondback terrapin habitat.
12	Medium	<b>Lower New Bayou area.</b> Wetlands (high), nursery (high).
13	Medium	<b>Upper New Bayou.</b> Bird habitat (high), nursery (medium).
14	High	<b>Upper Chocolate Bayou, fringe marshes and islands.</b> Bird habitat (high), nursery (high).
15	Medium	<b>West Bay Shoreline.</b> Birds (high), nursery (high); scattered oyster beds may be exposed at high tide. Continued on Christmas Point quad.

## HUMAN USE RESOURCES

## Beach Access Points

ID	STREET
25	San Luis Pass Bridge
26	Intrepid Lane
27	Salt Cedar Drive
28	Second Street
29	First Street

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
571	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
566	Franklin's gull							X	X	X			X	X	X	X	-	-	-	-
567	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Reddish egret	S	T		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Piping plover	S/F	T/T		X	X	X	X				X	X	X	X	X	-	-	-	-
	Long-billed curlew	S	SC		X	X	X					X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X				X	X	X	X	X	-	-	-	-
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
569	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Piping plover	S/F	T/T		X	X	X	X				X	X	X	X	X	-	-	-	-
	Gulls				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	-	-	-	-
	Least tern	F	E				X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Dunlin				X	X	X	X	X				X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X				X	X	X	X	X	-	-	-	-
	Sanderling				X	X	X					X	X	X	X	X	-	-	-	-
	Short-billed dowitcher				X	X	X	X				X	X	X	X	X	-	-	-	-
570	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Cormorant				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	American white pelican				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	-	-	-	-
	Roseate spoonbill				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Sanderling				X	X	X	X				X	X	X	X	X	-	-	-	-
	Short-billed dowitcher				X	X	X	X				X	X	X	X	X	-	-	-	-
	Piping plover	S/F	T/T		X	X	X	X				X	X	X	X	X	-	-	-	-
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Dunlin				X	X	X	X				X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X				X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Terns				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	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
571	Least tern	F	E				X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern	F	E				X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Dunlin				X	X	X	X				X	X	X	X	X	-	-	-	-
	Piping plover	S/F	T/T		X	X	X	X				X	X	X	X	X	-	-	-	-
	Sanderling				X	X	X					X	X	X	X	X	-	-	-	-
	Short-billed dowitcher				X	X	X					X	X	X	X	X	-	-	-	-
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	American avocet				X	X	X					X	X	X	X	X	-	-	-	-
	Brown pelican	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	American white pelican			HIGH	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	-	-	-	-
	Terns			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds				X	X	X	X				X	X	X	X	X	-	-	-	-
	Gull-billed tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Franklin's gull						X	X	X			X	X	X	X	X	-	-	-	-
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Black tern				X	X	X	X				X	X	X	X	X	-	-	-	-
	Caspian tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	MAR-JUN	MAR-JUL
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
574	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern	F	E				X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Piping plover	S/F	T/T		X	X	X	X				X	X	X	X	X	-	-	-	-
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Shorebirds				X	X	X	X				X	X	X	X	X	-	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Black tern				X	X	X	X				X	X	X	X	X	-	-	-	-

# SAN LUIS PASS CONTINUED

## BIOLOGICAL RESOURCES CONT.

Fish																		
RARNUM	NAME	S/E	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
566	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Sharks				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Gray snapper				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
567	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC	
571	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Sharks				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
Shellfish																		
RARNUM	NAME	S/E	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
566	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
567	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
569	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
571	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

# CHRISTMAS POINT

Map #49

## HUMAN USE RESOURCES

### Beach Access Points

ID	STREET
1	-
2	-
3	-
4	-
5	-

### Boat Ramps

RARNUM	NAME
H559	Sy's Bait Camp
H560	Galveston-Freeport Campground
H598	Treasure Island
H606	Public
H616	San Luis West Bait Camp
H722	San Luis Pass Public

### Water Intake Points

RARNUM	OWNER	TYPE
H114	U. S. Fish and Wildlife Service	6
H114	U. S. Fish and Wildlife Service	6

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
530	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
552	River otter				X	X	X	X	X	X	X	X	X	X	X	X		
596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
1	Piping plover	S/F	T/T		X	X	X	X	X			X	X	X	X	X	-	-	-	-
523	Lesser scaup				X	X	X					X	X	X	X	-	-	-	-	
	Bufflehead				X	X	X					X	X	X	X	-	-	-	-	
	Redhead				X	X	X	X				X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
529	Green-winged teal				X	X	X	X		X	X	X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
	Northern pintail				X	X	X	X				X	X	X	X	-	-	-	-	
	Northern shoveler				X	X	X	X				X	X	X	X	-	-	-	-	
	Waterfowl				X	X	X	X				X	X	X	X	-	-	-	-	
530	Terns				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
532	American oystercatcher			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	MAY-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
534	Least tern	F	E				X	X	X	X	X	X	X	X	X		APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Wilson's plover						X	X	X	X	X	X	X	X	X		APR-JUN	-	-	-
539	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Waterfowl				X	X	X	X				X	X	X	X	-	-	-	-	
540	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	American coot				X	X	X	X				X	X	X	X	-	-	-	-	
	Northern shoveler				X	X	X	X				X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
	Waterfowl				X	X	X	X				X	X	X	X	-	-	-	-	
	American wigeon				X	X	X	X				X	X	X	X	-	-	-	-	
	Yellow rail				X	X	X					X	X	X	X	-	-	-	-	
542	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Gulls				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Shorebirds				X	X	X	X	X			X	X	X	X	-	-	-	-	
548	Piping plover	S/F	T/T		X	X	X	X	X			X	X	X	X	-	-	-	-	
	Red knot				X	X	X	X	X			X	X	X	X	-	-	-	-	
	Sanderling				X	X	X	X				X	X	X	X	-	-	-	-	
	American oystercatcher			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	MAY-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
550	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
552	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	Blue-winged teal				X	X	X	X				X	X	X	X	-	-	-	-	
	Northern shoveler				X	X	X	X				X	X	X	X	-	-	-	-	
	Yellow rail				X	X	X					X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
	American wigeon				X	X	X	X				X	X	X	X	-	-	-	-	
	Green-winged teal				X	X	X	X				X	X	X	X	-	-	-	-	
	Waterfowl			HIGH	X	X	X	X				X	X	X	X	-	-	-	-	
	Northern pintail				X	X	X	X				X	X	X	X	-	-	-	-	



# CHRISTMAS POINT CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Birds Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
552 Cont.	Black-necked stilt				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Semipalmated sandpiper			HIGH	X	X	X	X					X	X	X	-	-	-	-	
	Short-billed dowitcher			HIGH	X	X	X	X					X	X	X	-	-	-	-	
	Dunlin			HIGH	X	X	X	X	X				X	X	X	-	-	-	-	
	Lesser yellowlegs				X	X	X	X				X	X	X	X	-	-	-	-	
	Shorebirds				X	X	X	X	X			X	X	X	X	-	-	-	-	
	Western sandpiper				X	X	X	X					X	X	X	-	-	-	-	
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
561	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Forster's tern			150	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Laughing gull			80	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Great blue heron			25	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Tricolored heron			36	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
562	Wilson's plover					X	X	X	X	X	X	X	X				APR-JUN	-	-	-
	Least tern	F	E			X	X	X	X	X	X	X	X				APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Least tern	F	E			X	X	X	X	X	X	X	X				APR-SEP	APR-SEP	MAY-SEP	MAY-OCT
564	Red-breasted merganser				X	X	X	X	X						X	X	-	-	-	-
	American coot				X	X	X	X					X	X	X	X	-	-	-	-
	Bufflehead				X	X	X						X	X	X	X	-	-	-	-
	Wading birds				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	-	-	-	-
	Western sandpiper				X	X	X	X					X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Long-billed curlew	S	SC		X	X	X						X	X	X	X	-	-	-	-
596	Franklin's gull						X	X	X				X	X	X	X	-	-	-	-
	674	Tricolored heron			36	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG
Great blue heron				25	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
Black skimmer				80	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
Forster's tern				150	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
Laughing gull				80	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
520	Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
530	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
534	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
535	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
537	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
539	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
540	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
541	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
543	Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
547	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC

# CHRISTMAS POINT CONTINUED

## BIOLOGICAL RESOURCES CONT.

Fish Continued																		
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
547 Cont.	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
548	Black drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Pinfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
550	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
551	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
553	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
554	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
556	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-DEC
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	-	-
559	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
564	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Red drum			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gafftopsail catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Southern flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JUL-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Spotted seatrout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-DEC
596	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
Shellfish																		
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
223	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
520	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
524	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
532	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
534	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
535	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
537	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
539	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
540	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
541	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN

# CHRISTMAS POINT CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Shellfish Continued

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
543	Northern quahog (hard clam)				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Lightning whelk				X	X	X	X	X	X	X	X	X	X	X	X	-	-
547	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Northern quahog (hard clam)				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
550	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
551	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
556	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
557	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
559	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
562	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
564	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
565	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
596	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

### Plants/Communities

RARNUM	NAME	S/F	T/E
136	Smooth cordgrass series		
430	Glasswort-saltwort series		
520	Turtle grass		
524	Turtle grass		
	Shoal grass		
541	Shoal grass		
547	Turtle grass		
	Shoal grass		
550	Turtle grass		
	Shoal grass		
775	Threeflower broomweed		
787	Sea oats-bitter panicum series		
786	Seacoast bluestem-gulfdune paspalum series		

# CHRISTMAS POINT

Map # 49

Polygon #	Priority	Description: what organism(s), habitat(s)?
<i>Pinchpoints at eastern mouths of Cold Pass, Guyton Cut, and Titlum-Tatum Bayou can be boomed to protect polygons 1-13 from spills in West Bay.</i>		
<i>Additional pinchpoints at western mouths of Cold Pass, Churchill Bayou, and Titlum-Tatum Bayou can be boomed to protect Christmas Bay-Bastrop Bay marshes from West Bay spills that have passed Mud Island.</i>		
<i>Pinchpoint where Bastrop Bayou enters GIWW can be boomed to protect northwestern portions of polygons 1, 2, and 4 from spills in GIWW.</i>		
1	High	<b>(a) West of Nicks Lake (continued on Oyster Creek quad); (b) north of Cox Lake; (c) West Bay shoreline north of Guyton Cut.</b> Bird habitat (high), nursery (high). Brazoria NWR.
<i>Pinchpoint at mouth of Alligator Bayou can be boomed to protect northwestern section of polygon 2 from spills in GIWW.</i>		
<i>Pinchpoints at entrances to Bastrop Bay from GIWW (Bastrop Bayou and an unnamed cut) can be boomed to protect eastern portions of polygons 2, 3, 4, and 5 and polygons 10 and 12 from spills in GIWW.</i>		
<i>Pinchpoint at canal entrance south of Bastrop Bayou can be boomed to protect central portions of polygons 2 and 4 from spills in GIWW.</i>		
<i>Pinchpoint at mouth of Nicks Cut can be boomed to protect southwestern portions of polygons 2 and 4 from spills in GIWW.</i>		
2	High	<b>(a) Drum Bay area, (b) Slop Bowl, (c) Rattlesnake Point, (d) Salt Lake area, (e, f) Cox Lake area, (g, h) Bastrop Bayou meanders, (i) east shore of GIWW, (j) Christmas Point, (k) Alligator Lake area, (l, m) Bastrop Bay shore, (n) Mud Island.</b> Wetlands (high), bird habitat (high), nursery (high). Important marsh, nursery, large numbers of waterfowl, shorebirds. Brazoria NWR.
3	Low	<b>West of Alligator Lake.</b> Bird habitat (high). Important waterfowl, shorebirds. Brazoria NWR.
4	High	<b>(a) Nicks Lake, (b) Salt Lake, (c) Big Slough, (d) GIWW, (e) Christmas Bay shoreline, (f) Cox Lake, (g) Lost Lake, (h) Bastrop Bayou, (i) Oyster Lake, (j) Christmas Point.</b> Bird habitat (high), nursery (high). Brazoria NWR. 4e borders on Christmas Bay Coastal Preserve.
<i>Pinchpoint at mouth of Churchill Bayou can be boomed to protect southeastern portions of polygons 5, 10, 11, and 12 from spills in Cold Pass.</i>		
5	Medium	<b>(a) Drum Bay, (b) Bastrop Bay, (c) Cold Pass, (d) West Bay shoreline north of Cold Pass.</b> Bird habitat (high), nursery (high); scattered oyster beds may be exposed at low tides. Continued on Hoskins Mound quad.
<i>Pinchpoint at entrance to Drum Bay from GIWW can be boomed to protect polygon 6 and southeastern portions of polygons 2, 3, 5, 8, and 10 from spills in GIWW.</i>		
6	High	<b>Marshes along southeastern shores of Drum Bay and Christmas Bay (a - i).</b> Wetlands (high), bird habitat (high), nursery (high). Includes part of Christmas Bay State Park. Eastern part borders on Christmas Bay Preserve.
7	SAV	<b>Seagrass beds in Drum Bay (a - d).</b> SAV (high), bird habitat (high), nursery (high). This area should be avoided during response activities to prevent physical damage to vegetation.
8	High	<b>Gulf shoreline of Follets Island.</b> Piping plover winter feeding area. Note: Piping plover in area October-April.
9	Low	<b>Follets Island uplands (a - c).</b> Bird habitat (high). Christmas Bay State Park.
10	High	<b>Christmas Bay.</b> Nursery (high), bird habitat (high), scattered oyster and clam beds. Christmas Bay Coastal Preserve.
11	SAV	<b>Perimeters of Christmas Bay (a - d).</b> SAV (high), bird habitat (high), nursery (high). Christmas Bay State Park, Christmas Bay Coastal Preserve. This area should be avoided during response activities to prevent physical damage to vegetation.
12	Medium	<b>Upland area south of Cold Pass.</b> Wetlands (high), bird habitat (high).
13	High	<b>South shore of Cold Pass.</b> Bird habitat (high), nursery (high), wetlands (medium).
14	Low	<b>San Luis Island subdivision canals.</b> Bird habitat (high), nursery (low).
15	High	<b>Southern Bird Island.</b> Wetlands (high), bird habitat (high), nursery (high).

# SOUTH OF CHRISTMAS POINT

Map #50

## HUMAN USE RESOURCES

### Beach Access Points

ID STREET

6

### Boat Ramps

RARNUM NAME

H575 Brazoria Co. ramp 57A

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
596	Franklin's gull								X	X	X			X	X	X	-	-	-	-

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
596	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
596	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

# East Matagorda Bay

## Data Sheets



Hazardous Materials Response  
and Assessment Division

# OYSTER CREEK

# Map #51

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
H557	Bastrop Bayou State
H558	Jack Booth's Bastrop Marina
H580	Bastrop Bayou Private
H585	Oyster Creek
H599	B&H Bait Camp

### Heliports

RARNUM	MANAGER	PHONE
H1305	Les Thompson	(713) 224-5673

## BIOLOGICAL RESOURCES

### Plants/Communities

RARNUM	NAME	S/F	T/E
770	Smooth blue-star	F	3C
774	Texas windmill-grass	F	C2

## OYSTER CREEK

Map # 51

<b>Polygon #</b>	<b>Priority</b>	<b>Description: what organism(s), habitat(s)?</b>
1	High	<b>Salt Lake - Slop Bowl area.</b> Wetlands (high), nursery (high), bird habitat (high). Brazoria NWR. Continued on Christmas Point quad.
<i>Pinchpoint where Bastrop Bayou crosses GIWW (on Christmas Point quad) can be boomed to protect polygons 2 and 3 from spills in GIWW.</i>		
2	High	<b>Bastrop Bayou east of railroad.</b> Wetlands (high), nursery (high). Brazoria NWR.
3	Medium	<b>Bastrop Bayou meander east and southeast of Mims.</b> Wetlands (high), nursery (high).



## HUMAN USE RESOURCES

### Beach Access Points

ID	STREET
7	
8	
131	Highway 332
132	Starfish Street
133	Jettyview Road
134	Berlanger Street
135	Hazen Street
136	Frist Street
137	Fifth Street
138	Eight Street
139	16th Street

### Boat Ramps

RARNUM	NAME
H582	Swan Lake
H583	Freeport State
H586	Freeport City
H587	Freeport City
H601	Bridge Harbor Canal Docks B&C
H603	Beach Bait and Tackle
H605	Freeport City
H619	Bridge Bait

### Coast Guard Facilities

RARNUM	NAME	PHONE
H429	Freeport Station	(409) 233-7551

### Heliports

RARNUM	MANAGER	PHONE
H1195		
H1196	Hayne Eckhoff	(409) 233-6542
H1197	Alvin Childs	(409) 233-8547

### Marinas

RARNUM	NAME	ADDRESS	PHONE
H137	Bridge Harbor Yacht Club	411 Sailfish Freeport 77541	(409) 233-2101
H601	Mitchell's Pier	403 S. Fron Freeport 77541	(409) 233-0722

### Water Intake Points

RARNUM	OWNER	TYPE
H112	DOW Chemical Co.	6
H113	Velasco Drainage District	6

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
585	Wilson's plover						X	X	X	X	X	X	X	X			APR-JUN	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Peregrine falcon	F	E	LOW			X	X	X								-	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Gulls				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Dunlin				X	X	X	X	X								-	-	-	-
	Western sandpiper				X	X	X	X									-	-	-	-
	Ruddy turnstone				X	X	X	X				X	X	X	X		-	-	-	-
	Sanderling				X	X	X	X				X	X	X			-	-	-	-
596	Franklin's gull						X	X		X		X	X	X	X		-	-	-	-
623	Mottled duck				X	X	X	X	X	X	X	X	X	X	X		JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP
	Snow goose				X	X	X					X	X	X	X		-	-	-	-
	Waterfowl			X	X	X	X	X				X	X	X	X		-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
624	Ruddy turnstone				X	X	X	X				X	X	X	X		-	-	-	-
	Sanderling				X	X	X	X				X	X	X			-	-	-	-
844	Black skimmer			1020	X	X	X	X	X	X	X	X	X	X	X		APR-SEP	APR-SEP	APR-SEP	APR-SEP

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
596	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X		-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X		-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X		NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X		MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X		-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X		-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X		AUG-NOV	SEP-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X		NOV-JAN	DEC-FEB
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X		-	OCT-DEC

# FREEPORT CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
596	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

# JONES CREEK

Map # 53

## HUMAN USE RESOURCES

### Boat Ramps

RARNUM NAME

H581 Ernie's Acres  
H588 Bennet's Motel  
H590 New Brazos River  
H611 Freeport Public

### Water Intake Points

RARNUM OWNER TYPE

H087 Texas Parks & Wildlife Dept. 1  
H116 U.S. Department of Energy 6

## BIOLOGICAL RESOURCES

### Birds

RARNUM NAME S/F T/E CONCEN J F M A M J J A S O N D NESTING LAYING HATCHING FLEDGING

582	White-tailed kite				X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X		X	X	X	X	-	-	-	-	
	Sandhill crane				X	X	X		X	X	X	X	-	-	-	-	
583	American wigeon				X	X	X	X		X	X	X	-	-	-	-	
	Black-necked stilt				X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP	
	Wading birds				X	X	X	X	X	X	X	X	-	-	-	-	
	Rails				X	X	X	X	X	X	X	X	-	-	-	-	
	Green-winged teal				X	X	X		X	X	X	X	-	-	-	-	
	Snow goose				X	X	X		X	X	X	X	-	-	-	-	
	Gadwall				X	X	X	X	X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
584	Green-winged teal				X	X	X		X	X	X	X	-	-	-	-	
	American wigeon				X	X	X	X	X	X	X	X	-	-	-	-	
	Black-necked stilt				X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP	
	Gadwall				X	X	X		X	X	X	X	-	-	-	-	
	Snow goose				X	X	X		X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
	Rails				X	X	X	X	X	X	X	X	-	-	-	-	
587	Northern shoveler				X	X	X	X		X	X	X	-	-	-	-	
	King rail				X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP	
	Wading birds				X	X	X	X	X	X	X	X	-	-	-	-	
	Common snipe				X	X	X	X		X	X	X	-	-	-	-	
	Wood stork	S	T		X	X	X	X	X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
	Snow goose				X	X	X		X	X	X	X	-	-	-	-	
608	Wading birds				X	X	X	X	X	X	X	X	-	-	-	-	
	American white pelican				X	X	X	X	X	X	X	X	-	-	-	-	
	Cormorant				X	X	X	X	X	X	X	X	-	-	-	-	
617	Wading birds				X	X	X	X	X	X	X	X	-	-	-	-	
	Wilson's plover				X	X	X	X	X	X	X	X	APR-JUN	-	-	-	
	American white pelican				X	X	X	X	X	X	X	X	-	-	-	-	
	Terns				X	X	X	X	X	X	X	X	-	-	-	-	
	Western sandpiper				X	X	X		X	X	X	X	-	-	-	-	
	Gulls				X	X	X	X	X	X	X	X	-	-	-	-	
	Royal tern				X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP	
	Caspian tern				X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	MAR-JUN	MAR-JUL	
	Black skimmer				X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP	
	Mottled duck				X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
	Clapper rail				X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP	
	Yellow rail				X	X	X		X	X	X	X	-	-	-	-	
	Osprey	S	SC		X	X	X	X	X	X	X	X	-	-	-	-	
	Shorebirds				X	X	X	X	X	X	X	X	-	-	-	-	
621	Long-billed curlew	S	SC		X	X	X		X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	

### Fish

RARNUM NAME S/F T/E CONCEN J F M A M J J A S O N D SPAWNING LARVAL/JUV

601	Channel catfish				X	X	X	X	X	X	X	X	-	-	-	-
	Blue catfish				X	X	X	X	X	X	X	X	-	-	-	-
	Southern flounder				X	X	X	X	X	X	X	X	-	-	-	-
	Red drum				X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC	-	-
	Atlantic croaker				X	X	X	X	X	X	X	X	-	APR-OCT	-	-
	Mullet				X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB	-	-
608	Gulf menhaden				X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR	-	-
	Atlantic croaker				X	X	X	X	X	X	X	X	-	APR-OCT	-	-
	Striped mullet				X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB	-	-
	Red drum				X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC	-	-
	Spotted seatrout				X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	-	-
	Gafftopsail catfish				X	X	X	X	X	X	X	X	MAR-JUL	MAY-AUG	-	-
	Spot				X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB	-	-
617	Gulf menhaden				X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR	-	-
	Atlantic croaker				X	X	X	X	X	X	X	X	-	APR-OCT	-	-
	Bay anchovy				X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	-	-
	Red drum				X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC	-	-

# JONES CREEK CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
608	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
617	Crustaceans				X	X	X	X	X	X	X	X	X	X	X	X	-	-

### Plants/Communities

RARNUM	NAME	S/F	T/E
24	Marshhay cordgrass Series		
414	Saltgrass-cordgrass series		
784	Runyon's water-willow	F	C2
786	Seacoast bluestem-gulfdune paspalum series		

## CEDAR LAKES EAST

Map # 54

## HUMAN USE RESOURCES

## Boat Ramps

RARNUM	NAME
H584	Ducroz
H589	Freeport Public

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
--------	------	-----	-----	--------	---	---	---	---	---	---	---	---	---	---	---	---	--------	---------

596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
-----	--------------------	--	--	--	---	---	---	---	---	---	---	---	---	---	---	---	---------	---------

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
580	Western sandpiper				X	X	X	X					X	X	X	-	-	-	-	-
	Lesser yellowlegs				X	X	X	X				X	X	X	X	-	-	-	-	-
	Short-billed dowitcher				X	X	X	X				X	X	X	X	-	-	-	-	-
	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	-
	American wigeon				X	X	X	X				X	X	X	X	-	-	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Dunlin				X	X	X	X				X	X	X	X	-	-	-	-	-
	American avocet				X	X	X	X				X	X	X	X	-	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Gulls				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	White ibis				X	X	X	X	X	X	X	X	X	X	X	-	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	-	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Shorebirds				X	X	X	X				X	X	X	X	-	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	-	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
586	Peregrine falcon	F	E	LOW	X	X	X	X				X	X	X	X	-	-	-	-	-
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X	-	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Shorebirds				X	X	X	X				X	X	X	X	-	-	-	-	-
596	Franklin's gull							X	X	X	X	X	X	X	X	-	-	-	-	-
603	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	-	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Sanderling				X	X	X	X				X	X	X	X	-	-	-	-	-
	Ruddy turnstone				X	X	X	X				X	X	X	X	-	-	-	-	-
	Piping plover	S/F	T/T		X	X	X	X	X			X	X	X	X	-	-	-	-	-
607	American avocet				X	X	X	X				X	X	X	X	-	-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	-	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	-	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Shorebirds				X	X	X	X				X	X	X	X	-	-	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Waterfowl			X	X	X	X	X				X	X	X	X	-	-	-	-	-
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
719	Snowy egret			288	X	X	X	X	X	X	X	X	X	X	X	-	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Roseate spoonbill			1	X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Great blue heron			110	X	X	X	X	X	X	X	X	X	X	X	-	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Cattle egret			175	X	X	X	X	X	X	X	X	X	X	X	-	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Tricolored heron			215	X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Olivaceous cormorant			19	X	X	X	X	X	X	X	X	X	X	X	-	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
	Laughing gull			150	X	X	X	X	X	X	X	X	X	X	X	-	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Great egret			135	X	X	X	X	X	X	X	X	X	X	X	-	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Reddish egret	S	T	20	X	X	X	X	X	X	X	X	X	X	X	-	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	White ibis			1	X	X	X	X	X	X	X	X	X	X	X	-	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Shorebirds				X	X	X	X				X	X	X	X	-	-	-	-	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
580	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
596	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
580	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
596	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

## Plants/Communities

RARNUM	NAME	S/F	T/E
787	Sea oats, bitter panicum series		

## CEDAR LAKES WEST

Map # 55

## HUMAN USE RESOURCES

## Beach Access Points

ID STREET

1  
2  
3  
4  
5

## Boat Ramps

RARNUM NAME

H652 Don Juan Marina

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLDGING
578	Willet				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Black-necked stilt				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Lesser yellowlegs				X	X	X	X				X	X	X	X	-	-	-	-	
	Snow goose			HIGH	X	X	X					X	X	X	X	-	-	-	-	
	Short-billed dowitcher				X	X	X	X				X	X	X	X	-	-	-	-	
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
581	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	American wigeon				X	X	X	X				X	X	X	X	-	-	-	-	
	Northern pintail				X	X	X	X				X	X	X	X	-	-	-	-	
	Terns				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	Cormorants				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
596	Franklin's gull							X	X	X	X	X	X	X	X	-	-	-	-	
602	Terns				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Piping plover	S/F	T/T		X	X	X	X	X			X	X	X	X	-	-	-	-	
	Gulls				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Shorebirds				X	X	X	X				X	X	X	X	-	-	-	-	
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
604	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	White-tailed kite				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Northern harrier				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Peregrine falcon	F	E	LOW	X	X	X	X				X	X	X	X	-	-	-	-	
	American coot				X	X	X	X				X	X	X	X	-	-	-	-	
	Common moorhen				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	APR-SEP
	Snow goose			HIGH	X	X	X					X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
605	Northern shoveler				X	X	X	X				X	X	X	X	-	-	-	-	
	American wigeon				X	X	X	X				X	X	X	X	-	-	-	-	
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Green-winged teal				X	X	X	X				X	X	X	X	-	-	-	-	
	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	Northern pintail				X	X	X	X				X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Shorebirds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Wood stork	S	T	LOW	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
607	American avocet				X	X	X	X				X	X	X	X	-	-	-	-	
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	Osprey	S	SC		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
611	Gadwall			HIGH	X	X	X	X				X	X	X	X	-	-	-	-	
	Green-winged teal				X	X	X	X				X	X	X	X	-	-	-	-	
	American wigeon			HIGH	X	X	X	X				X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Shorebirds				X	X	X	X				X	X	X	X	-	-	-	-	
626	Northern shoveler				X	X	X	X				X	X	X	X	-	-	-	-	
	Gadwall				X	X	X	X				X	X	X	X	-	-	-	-	
	Green-winged teal				X	X	X	X				X	X	X	X	-	-	-	-	
	American wigeon				X	X	X	X				X	X	X	X	-	-	-	-	
	Waterfowl				X	X	X	X				X	X	X	X	-	-	-	-	
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Rails				X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
771	Texas diamondback terrapin		N															

# CEDAR LAKES WEST CONTINUED

## BIOLOGICAL RESOURCES CONT.

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
581	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
596	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
605	Spot				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-FEB
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Killifish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	JAN-DEC
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
581	American oyster (easter				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
596	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
605	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG
	Grass shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	American oyster (easter				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT

### Plants/Communities

RARNUM	NAME	S/F	T/E
24	Marshhay cordgrass ser		

## HUMAN USE RESOURCES

## Marinas

RARNUM	NAME	ADDRESS	PHONE
H205	Caney Creek Marina	Sargent	(409) 245-3691

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
594	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
594	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-

## Reptiles/Amphibians

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING
785	Texas garter snake	F	C2		X	X	X	X	X	X	X	X	X	X	X	X	-	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
594	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
594	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN



## HUMAN USE RESOURCES

### Boat Ramps

RARNUM	NAME
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H649	Chinquapin
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# BROWN CEDAR CUT

Map # 58

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
594	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
591	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
594	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
596	Franklin's gull							X	X	X			X	X	X	X	-	-	-	-

### Fish

RARNUM	NAME	S/F	T/F	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
591	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
594	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
596	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB

### Shellfish

RARNUM	NAME	S/F	T/F	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL / JUV
594	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-JUL
596	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

### Plants/Communities

RARNUM	NAME	S/F	T/F
591	Cordgrass		
594	Shoalgrass		

# DRESSING POINT

Map # 59

## HUMAN USE RESOURCES

### Heliports

RARNUM MANAGER

PHONE

H1198 Neill Osborne

(409) 233-7962

## BIOLOGICAL RESOURCES

### Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING		
594	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	-	-
596	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	-	-

### Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
591	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
594	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
596	Franklin's gull							X	X	X		X	X	X	X	X	-	-	-	-
750	Black-crowned night heron			90	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Caspian tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	MAR-JUN	MAR-JUL
	Cattle egret			130	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Great blue heron			155	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Great egret			980	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Laughing gull			2500	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Reddish egret	S	T	36	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	APR-SEP
	Roseate spoonbill			222	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	Snowy egret			225	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Tricolored heron			1270	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-AUG	APR-AUG	MAY-SEP
	White ibis			2800	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Forster's tern				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	MAR-SEP
	American oystercatcher				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	MAY-AUG	MAY-SEP
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-

### Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
591	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
594	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
596	Gulf kingfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Florida pompano				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Hardhead catfish				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Spanish mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB

### Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
594	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
596	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	MAY-AUG

### Plants/Communities

RARNUM	NAME	S/F	T/E
591	Cordgrass		

## HUMAN USE RESOURCES

## Boat Ramps

RARNUM	NAME
H646	River Bend
H647	Al's
H648	Rawlings
H650	St. Mary's Bayou

## BIOLOGICAL RESOURCES

## Mammals

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING
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594	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
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## Birds

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
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67	Migratory songbirds				X	X	X	X	X			X	X	X	X	X	-	-	-	-
816	Piping plover	S/F	T/T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
849	Cattle egret			1660	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	APR-AUG
	Great blue heron			3	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-JUN	FEB-JUN	MAR-JUL
	Great egret			22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Olivaceous cormorant			20	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	FEB-AUG
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	APR-JUL	MAY-AUG
	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-
594	Waterfowl				X	X	X	X				X	X	X	X	X	-	-	-	-

## Fish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV
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594	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-DEC
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-AUG
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	DEC-MAR
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	SEP-DEC
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-OCT
	Mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	DEC-FEB

## Shellfish

RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAL/JUV.
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594	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-JUN
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## Plants/Communities

RARNUM	NAME	S/F	T/E
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782	Coastal gayfeather		
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BIOLOGICAL RESOURCES																				
Birds																				
RARNUM	NAME	S/F	T/E	CONCEN	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING
67	Migratory songbirds																			
Plants/Communities																				
RARNUM	NAME	S/F	T/E																	
782	Coastal gayfeather																			

No human use or biological resource data are displayed on this map.

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