ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/8/96

Load # Agitation 01 Times: Start 0830 End 1130 Dump NA
Location(lat/long) sta -1+00 - 9+00 Tide Flood 3
Weather Clear, winds light Airs, seas calm
H_2O Surf.Temp 55 Time 0730 Below Mid-Depth 53 Time 0730 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Horseshoe crab Stbd: wood

Comments: Hills cleaned, at 1130 drags brought aboard. Just wheel washing. stopped wheeling washing at 1405. dredge went to anchor
Agitation

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	3	1158	cut
T+	5	1300	cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 2/8/96

Agitation

Load # 02 Times: Start 2015 End 0145 Dump NA

Location(lat/long) Sta -1+00 - +9+00 Tide Flood

Weather clear, winds SW 12 knots, seas calm

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments: 0115 started to wheel wash.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/9/96

Load # Agitation '03 Times: Start 0940 End 1404 Dump NA
Location(lat/long) Sta -1+00 - +9+00 Tide Flood
Weather Mostly clear, winds w 20knots, seas
H_2O Surf Temp 55 Time 1145 Below Mid-Depth 55 Time 1145 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: Rope

Comments: 1345 stopped pumping, started wheel washing.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	10	908	on the way to the pumpout
TT	2	1058	cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 2/9/96

Load # Agitation #4 Times: Start 1015 End 0253 Dump NA
Location(lat/long) Sta 1+00 - +900 Tide Flood
Weather Partly cloudy, winds W-10 knots, seas 1-2
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: Chelk, Rope

Comments: In [redacted] started to wheel wash at 0210

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/10/96

Load # Agitation #5 Times: Start 0900 End 1615 Dump NA
Location(lat/long) Sta 1+00 - +900 Tide High/Flood
Weather Hazey/clear, winds calm, seas calm
H_2O Surf.Temp 57 Time 1506 Below Mid-Depth 57 Time 1509 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Work Deflector: OK
Stbd Draghead: O Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Work Stbd: O

Comments: Mother/Calf 30.28 N., spotted by whale
Right whale 81.09 W. survey at 12:30
Kings bay.
start wheel wash 1500

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman / Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 2/10/96

Load # Agitation 6 Times: Start 2155 End 0427 Dump NA

Location(lat/long) sta -1+00 - 9+00 Tide Flood

Weather Partly cloudy, winds W 10 knots, seas calm

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Clear Deflector: OK

Stbd Draghead: Clear Deflector: OK

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 02/11/96

Load # Agitation #7 Times: Start 0920 End 1425 Dump NA
Location(lat/long) Sta -1700 +9700 Tide Flood
Weather cloudy, winds W 20 knots, seas 1-2
H_2O Surf.Temp 57 Time 1300 Below Mid-Depth 57 Time 1300 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: Went down to pump out barge.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	4	1040	cutarea
TT	8	1230	cutarea

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/11/96

Load # Agitation # 8 Times: Start 1415 End 1645 Dump NA
Location(lat/long) -2+00 to 9+00 Tide
Weather Clear, winds WNW 10-15 Kts, seas 1'
H_2O Surf. Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:_____ Deflector:_____
Stbd Draghead:_____ Deflector:_____
Port Discharge, Fore:_____ Mid:_____
Port Discharge, Aft:_____
Stbd Discharge, Fore:_____ Mid:_____
Stbd Discharge, Aft:_____
Port Overflow:_____
Stbd Overflow:_____
Overboard Discharge, Port:_____ Stbd:_____

Comments: Wheel wash

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/11/96

Load # Agitation #9 Times: Start 2310 End 0645 Dump NA
Location(lat/long) -2+00 to 9+00 Tide Flood
Weather Clear, winds W 10-15 Kts, seas 1-2
H_2O Surf. Temp 55 Time 735 Below Mid-Depth 55 Time 735 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: 0611 Pickup drags and start to wheel wash

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 2/12/96

Load # Agitation #10 Times: Start 1131 End 1745 Dump NA

Location(lat/long) -2+00 to 9+00 Tide: Flooding

Weather Clear, Winds N 15-20 Kts, seas 3-4-5' swells

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments: lots of cannonball jellyfish found in the cut area start to wheelwash 1700.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	1015	located in channel without anchor

Observer(s) On Duty: Peter Westermann

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/13/96

Load # Agitation #11 Times: Start 0000 End 0300 Dump ——
Location(lat/long) +2-00 to 9+00 Tide Flood
Weather Clear, winds N 10-15 Kts, seas 3-4
H_2O Surf Temp ____ Time ____ Below Mid-Depth ____ Time ____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/13/96

Load # Agitation #12 Times: Start 1015 End [illegible] Dump NA
Location(lat/long) sta -2+00 - 9+00 Tide Flood
Weather clear, winds NW - 18 knots, Seas 2-4
H_2O Surf.Temp 55 Time 1150 Below Mid-Depth 55 Time 1150 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments: Pick up anchor at 0730.
start agitating 1200 with pumps

Right whale sighted with feeding gannets and dolphins at 11:08

feeding dolphins and gannets observed at 1650
no whale sightings

wheel wash after 1900

0100 on the way to Fernandina for fuel
At Dock 0757. slow bell observed Kingsbay

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0806	south cut
Tt	8	1108	near buoy 3
Tt	5-6	1650	feeding near buoy #2 w/ gannets

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/15/96

Load # Agitation 13 Times: Start 0423 End 0700 Dump NA
Location(lat/long) -2700 - 0700 Tide Flood
Weather cloudy, winds SW 15 knots, seas 1-3
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No _____

Port Draghead: _____ Deflector: _____
Stbd Draghead: _____ Deflector: _____
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: _____ Stbd: _____

Comments: 2100 pick up anchor. 2-14-96
2 Trm warm H20 outfall
wheel washing 423 0700

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/21/96

Load # Agitation 14 Times: Start 1010 End 1210 Dump _____

Location(lat/long) -2 to +20 Tide Agitating ~90 minutes on either side of high tide Started loads High Tide.

Weather Clear, winds W-NW 15-20kt, seas 1-2', 42°

H_2O Surf. Temp 47/49 Time 0736 (Flood) 1113 (Ebb) Below Mid-Depth 48°/48° Time 0738 (Flood) 1115 (Ebb) C or (F) (circle one) Temperature Readings are Inaccurate Disregard

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: horseshoe crab Stbd: Ø

Comments: 0807 off anchor, move to sea buoy in channel. Started pumping water at 1000 for a dry run. moving into the channel. 1010 in channel conducting a floating load. 1027 start pumping sand. Material fine sand/silt.

1210 - wheel wash agitation
1215 - end agitation - go to anchor 1255

*Sea temp on CG weathercast 56°F
H_2O surface 48° 1618 ebb/low Mid-depth 49° 1614 ebb/low

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Te	1	0908	Bottlenose dolphin N. of Channel

Observer(s) On Duty: C. Ryder / K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Agitation

Date: 3/22/96

Load # 15 Times: Start 1935 End 0099 Dump _____
Location(lat/long) Stations -2 to +20100 Tide Flood H=2120
Weather Clear, seas 1-2', Wind NW 15-20,
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Raised anchor 1917
On anchor 0125

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson, C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 22 / 96

Agitation
Load # 16 Times: Start 0745 End 1304 Dump _____
Location(lat/long) Stations -2 to +20 Tide Flood → Ebb (High @ 1012)
Weather seas calm, winds 0-5 kt NW, 46°F, skies clear
H_2O Surf. Temp Not Available Time _____ Below Mid-Depth Not Available Time _____ C or (F) (circle one)
56° - CG Broadcast
Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:
Lions Mane jellyfish in the channel - be careful - they're as poisonous as man'o wars!
Cannonball jellyfish in channel too!

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Eyler / K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 3/23/96

Agitation

Load # 17 Times: Start 2027 End 0135 Dump _____

Location(lat/long) -2 to +20 Tide Flood H=2232

Weather Clear, Seas 1', Wind W 4 10-15 KTS

H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: Rope Deflector: ok

Stbd Draghead: 0 Deflector: ok

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson, C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 23 / 96

Load # Agitation 18 Times: Start 0915 End 1417 Dump _____

Location(lat/long) Stations -2 to +20 Tide Flood H ~ 1040

Weather clear, winds W-NW 5-10 kt, seas 1', 60°

H_2O Surf. Temp 57° Time 06 Broadcast Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1120	in channel
Tt	10	1125	N of channel feeding w/ gannets

Observer(s) On Duty: C. Ryder / K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 3/24/96

Agitation

Load # 19 Times: Start 2012 End 0255 Dump _____

Location(lat/long) -2 to +20 Tide flood Hv 2315

Weather clear, seas 1', Wind SE 5-10 kt

H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: 0 Deflector: ok

Stbd Draghead: 0 Deflector: ok

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson, C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 3 / 24 / 96

Load # Agitation 20 Times: Start 0958 End 1628 Dump _____

Location(lat/long) Stations -2 to +20 Tide Flood H 1158

Weather Partly Cloudy skies, seas 1', winds SE 5-10 kt, 65°

H_2O Surf. Temp 59°F Time 1545 CG forcast Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

lions mane and cannonball jellyfish in the channel

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	10	1415	N of channel incl. 3 calves
Tt	6	1520	N of channel

Observer(s) On Duty: C. Baker, K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/25/96

Load # Agitation 21 Times: Start 2231 End 0745 Dump

Location(lat/long) Station -2 to +20 Tide Ebb H~2358

Weather Clear, Seas 2', Wind SE 10 Kt, 62°F

H_2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No ✓

Port Draghead: 0 Deflector: ok

Stbd Draghead: 0 Deflector: ok

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: fine sand, shell

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson / C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/25/96

Load # Agitation 22 Times: Start 0952 End 1400 Dump _____ High 1220
Location(lat/long) Stations -2 to +20 Tide Flood
Weather skies mostly clear; seas 3-5' swell, winds SE 15-20 kt, 70°
H_2O Surf.Temp 61° Time 1234 Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder, J. Henderson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 3 / 26 / 96

Load # Agitation 23 Times: Start 0100 End 0137 Dump _____

Location(lat/long) Stations +2 to +20 Tide Ebb

Weather Seas SE 10-15 Kt, seas 3-5' swell, skies partly cloudy

H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: 0 Deflector: ok

Stbd Draghead: 0 Deflector: ok

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments: _____

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 /26/ 96

Load # 24 (Agitation) Times: Start 1136 End 1326 Dump _____ High 1323
Location(lat/long) -2 to +20 Tide Flood
Weather Partly cloudy, winds SE 5-10 kt, seas 3', temp. 70°
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/27/96

Load # 25 (Agitation) Times: Start 2313 End 0019 Dump _____
Location(lat/long) Stations -2 to +20 Tide FLOOD
Weather partly cloudy, winds 10-20 SE, temp 63°, seas 3-5' swell
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON & C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/29/96

Load # Agitation 26 Times: Start 1541 End 1716 Dump _____

Location(lat/long) station -2 to +20 Tide _____

Weather partly cloudy, seas 2-4, temp 68°, wind 5-10 kt NE

H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: ok

Stbd Draghead: Ø Deflector: ok

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

→ Overboard Discharge, Port: Ø Stbd: Ø

Comments: _____

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/1/96

Asistant

Load # 27 Times: Start 1945 End 2005 Dump _____

Location(lat/long) Stations -2 to +20 Tide FLOOD

Weather cloudy, temp 56°, seas 1-3, wind NW 20-30 kt

H_2O Surf.Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: ok

Stbd Draghead: Ø Deflector: ok

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P. Ouley

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4 / 3 / 96

Load # 28 (Agitation) Times: Start 0948 End 0949 Dump _____
Location(lat/long) Stations -2 to +40 Tide Flood
Weather clear, 64°, Seastate 2-4, wind NNE 10-15 kt
H_2O Surf.Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: NA Mid: NA
Port Discharge, Aft: NA
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/4/96

Agitation

Load # 29 Times: Start 0635 End 0712 Dump _____

Location(lat/long) Stations -2 to +20 Tide Flood

Weather clear, 62°, seastate 1-3, wind WSW 5-10 kt

H_2O Surf.Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: OC

Stbd Draghead: Ø Deflector: OC

Port Discharge, Fore: NA Mid: NA

Port Discharge, Aft: NA

Stbd Discharge, Fore: NA Mid: NA

Stbd Discharge, Aft: NA

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: Ø

Comments: _____

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 05/16/96

Agitation

~~Load~~ #_____ Times: Start 0851 End ~~2226~~ 2399 Dump_____

Location(lat/long) -9+40 → 31+00 Tide H 1946

Weather Clear, winds NE 10-15 knots, seas 2-3

H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes_____ No X

Port Draghead: clear Deflector: OK / clear

Stbd Draghead: clear Deflector: OK / clear

Port Discharge, Fore: clear Mid: N/A

Port Discharge, Aft: N/A

Stbd Discharge, Fore: clear Mid: N/A

Stbd Discharge, Aft: N/A

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments: no debris checked at 2226, stayed here all night

2 shells, wood, pieces of rope, bryozoans, brown algae

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0940	By Red Nav Buoy 10
Tt	5	1235	South of ICW Red 2A Marker
Tt	8	1800-2000	" "

Observer(s) On Duty: Cathy Sakas, P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 05/17/96

~~Load #~~ Agitation Times: Start 0000 End 0710 Dump _____

Location(lat/long) -9+40 → -31+00 Tide 0307 L (Ebb to Flood)

Weather Calm seas, Clear skies, Clear visibility

H_2O Surf. Temp _____ Time _____ Below Mid-Depth 75°F Time 0945 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: 0 Deflector: 0

Stbd Draghead: 0 Deflector: 0

Port Discharge, Fore: 0 Mid: N/A

Port Discharge, Aft: N/A

Stbd Discharge, Fore: 0 Mid: N/A

Stbd Discharge, Aft: N/A

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: N/A Stbd: N/A

Comments: Agitating inside ICW markers 1-2A, southside, St. Augustine Inlet
Shells, pieces of wood, shoe insole, horse shoe crab

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Cathy Sykes

Date: 05/17/96

~~Agitation~~

Load # Agitation Times: Start 0710 End 1115 Dump _____

Location(lat/long) -9+40 → -31+00 Tide 0907 H (Flood to Ebb)

Weather Clear Skies, Calm Seas (w/3-5' swell on bar), SW wind at 3knots

H_2O Surf Temp _____ Time _____ Below Mid-Depth 75° Time 0945 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: 0 Deflector: 0

Stbd Draghead: 0 Deflector: 0

Port Discharge, Fore: Large butterfly ray Mid: N/A

Port Discharge, Aft: N/A

Stbd Discharge, Fore: Butterfly ray Mid: N/A

Stbd Discharge, Aft: N/A

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: N/A Stbd: N/A

Comments: Agitation on bar off St. Augustine Inlet
Clean sand, Two butterfly rays trapped - one returned alive (fore port discharge

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Cathy Sakas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 05/17/96

~~Agitation~~

~~Load #~~ Agitation **Times: Start** 1130 **End** 1252 **Dump** _____

Location(lat/long) -9+40 > -31+00 **Tide** 1510L Ebb

Weather Clear skies, excellent visibility,

H_2O Surf Temp _____ **Time** _____ **Below Mid-Depth** 75° **Time** 0945 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes _____ **No** X

Port Draghead: _____ **Deflector:** _____

Stbd Draghead: _____ **Deflector:** _____

Port Discharge, Fore: _____ **Mid:** _____

Port Discharge, Aft: _____

Stbd Discharge, Fore: _____ **Mid:** _____

Stbd Discharge, Aft: _____

Port Overflow: _____

Stbd Overflow: _____

Overboard Discharge, Port: _____ **Stbd:** _____

Comments: Agitation inside ICW buoys southside of channel between markers 1-2A
Stopped agitation to run to dump site to pump water into reset pipe anchors

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	1215	Between marker 1 & 2

Observer(s) On Duty: C. Sakas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 05 / 19 / 96

Load # ~~Agitation~~ AGITATION Times: Start 1010 End 1158 Dump —

Location(lat/long) -9+40 → -31+00 Tide 1030 HIGH 1430 LOW

Weather clear sky ; winds SE 5-10 knots ; seas 1-2'

H_2O Surf.Temp ___ Time ___ Below Mid-Depth ___ Time ___ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ___ No ___

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: Agitation ON NORTH SHOAL PRODUCED FINE WHITE SAND - NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	8	10 52	NEAR MARKER # 5

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 5/20/94

~~Agitation~~

Load # Agitate Times: Start 1114 End 1153 Dump —

Location(lat/long) -9 +40 → +31 +00 Tide 1654 low

Weather skies clear; winds W 4-6 knots; 1-2' seas

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No +

Port Draghead: ϕ Deflector: OK/clear

Stbd Draghead: ϕ Deflector: OK/clear

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 5 / 21 / 94

Load # ~~Agitation~~ Agitate Times: Start 1054 End 1236 Dump —

Location(lat/long) -9 + 40 → -31 + 00 Tide 1136 HIGH

Weather OVERCAST WITH SLIGHT RAIN, WINDS S 4-6 KNOTS; SEAS 1-2'

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok / clear

Stbd Draghead: Ø Deflector: ok / clear

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 5/22/96

~~Agitation~~

Load # Agitate Times: Start 1200 End 1235 Dump —

Location(lat/long) -9 +40 > +30 +00 Tide HIGH 1217

Weather SKIES PARTLY CLOUDY, CLEAR VISIBILITY ; WINDS N4-6 KNOTS; SEAS 2-3'

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead:_____ Deflector:_____

Stbd Draghead:_____ Deflector:_____

Port Discharge, Fore:_____ Mid:_____

Port Discharge, Aft:_____

Stbd Discharge, Fore:_____ Mid:_____

Stbd Discharge, Aft:_____

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port:_____ Stbd:_____

Comments: Agitating fine white sand.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/23/96

Load # ~~Agitation~~ Agitation **Times:** Start 1344 End 1357 Dump —

Location(lat/long) -9 +40 > +30 +00 Tide 1300 LOW, 1906 HIGH

Weather SKIES CLEAR; WINDS SE 7-10 KNOTS; SEAS 1-3

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead:____ Deflector:____

Stbd Draghead:____ Deflector:____

Port Discharge, Fore:____ Mid:____

Port Discharge, Aft:____

Stbd Discharge, Fore:____ Mid:____

Stbd Discharge, Aft:____

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port:____ Stbd:____

Comments: Agitation on NORTHSIDE of CHANNEL

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/24/94

~~Agitation~~

Load # Agitation Times: Start 1212 End 1408 Dump —

Location(lat/long) -9 +40 → +30 +00 Tide 1346 HIGH

Weather SKIES CLEAR; WINDS E 1-3 KNOTS; SEAS 1-2'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead:____ Deflector:____

Stbd Draghead:____ Deflector:____

Port Discharge, Fore:____ Mid:____

Port Discharge, Aft:____

Stbd Discharge, Fore:____ Mid:____

Stbd Discharge, Aft:____

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port:____ Stbd:____

Comments: Agitating Northside of channel - clean, fine white sand

NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1224	NORTH OF CHANNEL MARKER # 2
RB (CownoseRAY)	20	1400	STARBOARD SIDE OF SHIP IN CHANNEL NEAR MARKER # 4
RB	20	1512	" "

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/26/96

Load # ~~Agitation~~ Agitation Times: Start 1403 End 1528 Dump —

Location(lat/long) -9 + 40 > +30 +00 Tide 1531 HIGH

Weather SKIES PARTLY CLOUDY ; WINDS SE 1-3 KNOTS ; SEAS 1-2'

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead:____ Deflector:____

Stbd Draghead:____ Deflector:____

Port Discharge, Fore:____ Mid:____

Port Discharge, Aft:____

Stbd Discharge, Fore:____ Mid:____

Stbd Discharge, Aft:____

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port:____ Stbd:____

Comments: Agitation on NORTHSIDE of CHANNEL

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

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ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 06 / 11 / 96

Load # AGITATION **Times: Start** 1050 **End** 1340 **Dump** 1340
Location(lat/long) -9+40 → +80TOO **Tide** 1.21 (13 44) FLOOD
Weather OVC, WIND W 5KTS, SEAS 2'-3'
H_2O Surf Temp 78°F **Time** 1340 **Below Mid-Depth** N/A **Time** _____ **C or (F) (circle one)**

Are there incidents involving endangered or protected species? Yes _____ **No** X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: CLR **Mid:** CLR
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR **Mid:** CLR
Stbd Discharge, Aft: CLR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: AGITATION FROM 1050 ON. START, END TIMES ARE BASED ON WHEN LANDERS ARE CHECKED. AGITATION 6 CUTS, LOAD FOR 2 CUTS, LANDERS, DRAGHEADS CHECKED AFTER THE 2-CUT LOAD IS DUMPED IN CHANNEL OVERDEPTH AREAS.

THIS LOAD SHEET COMPRISES 2 CYCLES OF THE ABOVE DESCRIPTION, ALL TEDS WILL HENCEFORTH BE INSPECTED AFTER EACH 2-CUT LOAD.

WATER TEMP BELOW DEPTH NOT CHECKED BECAUSE SHIP IS CONSTANTLY IN MOTION & WILL DRAG THERMOMETER NEAR SURFACE.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 06/11/96

Load # AGITATION **Times: Start** 1345 **End** 1445 **Dump** 1445
Location(lat/long) −9+40 → +30+60 **Tide** 2.55 FLOOD (1449)
Weather PTLY CLOUDY WIND S 10KT SEAS 2'-3'
H_2O Surf Temp 78° **Time** 1448 **Below Mid-Depth** _____ **Time** _____ **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: SEAWEED **Mid:** CLR
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR **Mid:** CLR
Stbd Discharge, Aft: CLR
Port Overflow: CLR
Stbd Overflow: CLR
Overboard Discharge, Port: WOOD DEBRIS **Stbd:** CLR

Comments: 6 CUTS OF AGITATION, THEN 2 CUTS LOADED INTO HOPPER, LANDERS / DRAGHEADS CHECKED AFTER LOADED MATERIAL DUMPED IN CHANNEL OVERDEPTH.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	4	1400	ROLLING & TAIL-SLAPPING NEAR SEA BUOY

Observer(s) On Duty: C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER **1996**

Date: 06 / 11 / 96

Load # AGITATION **Times: Start** 1450 **End** 1517 **Dump** —
Location(lat/long) -9+40 → +30 TO 0 **Tide** _____
Weather CLOUDY, WIND SE 10 KT SEAS 2-3'
H_2O Surf Temp NONE TAKEN **Time** _____ **Below Mid-Depth** _____ **Time** _____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: — **Mid:** —
Port Discharge, Aft: —
Stbd Discharge, Fore: — **Mid:** —
Stbd Discharge, Aft: —
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: — **Stbd:** —

Comments: 1517 - STANDING BY FOR SURVEY UNTIL 1545
THIS SHEET REPRESENTS AGITATION ONLY, NO MATERIAL LOADED INTO HOPPER.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 06/11/96

Load # AGITATION **Times: Start** 1545 **End** 1830 **Dump** —
Location(lat/long) -9 +40 → +30 +00 **Tide** 4.8 EBB (1843)
Weather Storm front approaching ; Wind: SE - 10kts; Seas:
H_2O Surf. Temp ____ **Time** ____ **Below Mid-Depth** ____ **Time** ____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: — **Mid:** —
Port Discharge, Aft: —
Stbd Discharge, Fore: — **Mid:** —
Stbd Discharge, Aft: —
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: NO LOAD. AGITATION ONLY
1830 DOWN FOR WX (NO GPS) DUE TO THUNDERSTORM

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
—			

Observer(s) On Duty: C. MASON . S. SHAPIRO

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 01/11/96

Load # Agitation (Agitate / Dredge) **Times: Start** 2141 **End** 2255 **Dump** 2240-2253
Location(lat/long) +9 +40 → +30 +00 **Tide** L. 70 EBB (2206)
Weather cldy; wind: SW 8 kts; Seas: 2'-4'
H_2O Surf Temp 78° **Time** 2255 **Below Mid-Depth** _____ **Time** _____ **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** ✓

Port Draghead: clear **# Deflector:** F
Stbd Draghead: clear **# Deflector:** _____
Port Discharge, Fore: some trash & shells **Mid:** seaweed
Port Discharge, Aft: clear
Stbd Discharge, Fore: clear **Mid:** clear
Stbd Discharge, Aft: clear
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: clear **Stbd:** clear

Comments: 2141: GPS back on line - resumed agitation
2155: Began digging on stbd side
2 Dragheads lifted, but not brought aboard. could not get a good look at deflectors

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: S. Shapiro

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER **1996**

Date: 6/11/96

Load # Agitate Dredge **Times: Start** 2255 **End** 2300 **Dump** 2320

Location(lat/long) -9+40 → +30+00 **Tide** 0.5 EBB 2330

Weather Cldy; wind: S, SW 5-15; Seas: 2'-4'

H_2O Surf. Temp Not Taken **Time** _____ **Below Mid-Depth** — **Time** — **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** ✓

Port Draghead: clear **Deflector:** ok

Stbd Draghead: clear **Deflector:** ok

Port Discharge, Fore: seaweed **Mid:** clear

Port Discharge, Aft: clear

Stbd Discharge, Fore: clear **Mid:** clear

Stbd Discharge, Aft: clear

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: clear **Stbd:** clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
—			

Observer(s) On Duty: S. Shapiro

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 06/12/96

Load # AGITATION **Times: Start** 1805 **End** 2025 **Dump** —
Location(lat/long) —9 to → +30 to **Tide** 4.3 (2025) EBB
Weather PTLY CLOUDY WIND W 12 KTS SEAS 2'
H_2O Surf.Temp____ **Time**____ **Below Mid-Depth**____ **Time**____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ **No**____

Port Draghead: CLR **Deflector:** —
Stbd Draghead: CLR **Deflector:** —
Port Discharge, Fore: — **Mid:** —
Port Discharge, Aft: —
Stbd Discharge, Fore: — **Mid:** —
Stbd Discharge, Aft: —
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: AGITATION ONLY, NO LOAD
DUE TO EXTREMELY LOW TIDE

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
—			

Observer(s) On Duty: C MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6 1/2 / 96

Load # AGITATION **Times: Start** 1105 **End** 1230 **Dump** —
Location(lat/long) -90+40 → +30+00 **Tide** _____
Weather PTLY CLDY, WIND SE 10 KT SEAS 1-2'
H_2O Surf Temp _____ **Time** _____ **Below Mid-Depth** _____ **Time** _____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: — **Mid:** —
Port Discharge, Aft: —
Stbd Discharge, Fore: — **Mid:** —
Stbd Discharge, Aft: —
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: — **Stbd:** —

Comments: 1105 - BEGAN AGITATION THROUGH DRAGHEAD AND OUT OVERBOARD DISCHARGE ONLY - NO LOADING INTO THE HOPPER.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6 / 12 / 96

Load # AGITATOR4 Times: Start 0952 End 1052 Dump 1107
Location(lat/long) -9+40 → +30+00 Tide 0.40 FT @ BB 1110
Weather SEAS - CALM; CLEAR SKIES; WIND WNW @ 5 KTS.
H_2O Surf Temp 79 Time 1106 Below Mid-Depth _____ Time _____ C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: CLR Deflector: OK
Stbd Draghead: CLR Deflector: OK
Port Discharge, Fore: WOOD Mid: CLR
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR Mid: CLR
Stbd Discharge, Aft: CLR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLEAR Stbd: CLEAR

Comments: CONTINUING AGITATION WATCH PATTERN
T. MCDONALD REPLACES S. SHAPIRO

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. McDONALD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6 / 12 / 96

Load # AGITATION Times: Start 0915 End 0945 Dump 0947
Location(lat/long) -9+40 → +30+00 Tide
Weather
H_2O Surf.Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No X

Port Draghead: CLR Deflector: OK
Stbd Draghead: CLR Deflector: OK
Port Discharge, Fore: Mid:
Port Discharge, Aft:
Stbd Discharge, Fore: Mid:
Stbd Discharge, Aft:
Port Overflow:
Stbd Overflow:
Overboard Discharge, Port: Stbd:

Comments: CONTINUING AGITATION WATCH PATTERN (4-6 CUTS, DUMP, CHECK DRAGHEADS AND DEFLECTORS EACH DUMP, CHECK SCREENS EVERY 3 DUMPS).

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. McDONALD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6/12/96

Load # Agitation **Times: Start** 0845 **End** 0910 **Dump** 0914
Location(lat/long) -9+40 -7 +30 +00 **Tide** 2.25 FT (CRB) 0918
Weather CLEAR; WIND WSW 2-4 KTS; SEAS 1-2'
H_2O Surf Temp 79° **Time** 0915 **Below Mid-Depth** **Time** **(C)** or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: CLR **Mid:** CLR
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR **Mid:** CLR
Stbd Discharge, Aft: CLR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: CONTINUING AGITATION WATCH PATTERN

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T McDonald

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District • WINTER 1996

Date: 1/12/96

Load # Agitation **Times: Start** 0744 **End** 0840 **Dump** _____
Location(lat/long) -9+40 → +30 +00 **Tide** _____
Weather Clr; wind W3W 9kts; Seas: 1'-3'
H_2O Surf Temp _____ **Time** _____ **Below Mid-Depth** _____ **Time** _____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes _____ **No** _____

Port Draghead: ok **Deflector:** ok
Stbd Draghead: ok **Deflector:** ok
Port Discharge, Fore: _____ **Mid:** _____
Port Discharge, Aft: _____
Stbd Discharge, Fore: _____ **Mid:** _____
Stbd Discharge, Aft: _____
Port Overflow: _____
Stbd Overflow: _____
Overboard Discharge, Port: _____ **Stbd:** _____

Comments: One cycle: Dredge 4 cuts → dump in dr of channel
Check: -Dragheads/deflectors every cycle
-Discharges/Temp every 3rd cycle

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: S. Shapiro

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District • WINTER 1996

Date: 6/12/96 predge

Load # Agitation **Times: Start** 0710 **End** 0715 **Dump** 0740
Location(lat/long) -9 +40 → +30 +00 **Tide** 4.01 Ebb (0726)
Weather Clr ; Wind WSW 9kts ; Seas: 1'-3'
H_2O Surf Temp \ **Time** \ **Below Mid-Depth** \ **Time** \ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** ✓

Port Draghead: clr **Deflector:** OK
Stbd Draghead: clr **Deflector:** OK
Port Discharge, Fore: — **Mid:** —
Port Discharge, Aft: —
Stbd Discharge, Fore: — **Mid:** —
Stbd Discharge, Aft: —
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: clr **Stbd:** clr

Comments: 4 Runs dredging then dump in ctr of channel. Check temp & discharges every third set. Check Dragheads/deflectors every set

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
None			

Observer(s) On Duty: S. Shapiro

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER **1996**

Date: 06/12/96

Load # AGITATION **Times: Start** 0335 **End** 0640 (Dredge) **Dump** 0700
Location(lat/long) -9+40 ⇒ +30+00 **Tide** 4.11 High → Ebb (0647)
Weather Pfly cldy; wind SW 9kts; Seas 1'-3'
H_2O Surf Temp 77° **Time** 0715 **Below Mid-Depth** — **Time** — **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** ✓

Port Draghead: clr **Deflector:** OK
Stbd Draghead: clr **Deflector:** OK
Port Discharge, Fore: clr **Mid:** clr
Port Discharge, Aft: clr
Stbd Discharge, Fore: clr **Mid:** clr
Stbd Discharge, Aft: clr
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: clr **Stbd:** clr

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
None			

Observer(s) On Duty: S. Shapiro

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6/12/96

Load # Agitate (Agitate) **Times: Start** 2330 **End** 0325 **Dump** 0325 (Dredge)
Location(lat/long) ~9 +40 → +30 +00 **Tide** 2.34 FLOOD (0337)
Weather Cldy; Wind: 5-5K Seas: 2'-4'
H_2O Surf Temp 77° **Time** 0335 **Below Mid-Depth** _____ **Time** _____ **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: CLR **Mid:** CLR
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR **Mid:** PLASTIC BAG
Stbd Discharge, Aft: HORSESHOE CRAB
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: MULTIPLE AGITATION CUTS (FROM 2330 - 0305)
2 CUTS FOR THE LOAD, THEN DUMPED IN
CHANNEL OVERDEPTH.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6/13/96

Load # AGITATION **Times: Start** 1756 **End** 2058 **Dump** ——

Location(lat/long) -9 +40 ⇒ +30 +00 **Tide** 4.4 FT (EBB) 2102

Weather WINDS SE @ 15-20 KTS; SEAS 2-3'; STORM APPROACHING FROM W

H_2O Surf Temp ____ **Time** ____ **Below Mid-Depth** ____ **Time** ____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: CLR **Deflector:** OK

Stbd Draghead: CLR **Deflector:** OK

Port Discharge, Fore: 6 **Mid:** 6

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 **Mid:** 0

Stbd Discharge, Aft: 0

Port Overflow: 0

Stbd Overflow: 0

Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: AGITATION THROUGH OVERBOARD DISCHARGE ONLY BEGINNING AT 1756
WILL CHECK EVERY 5 HRS, AS LONG AS THIS TYPE OF
AGITATION CONTINUES

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. McDONALD, P. WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6/13/96

Load # AGITATION Times: Start 1439 End 1718 Dump —
Location(lat/long) -9+40 → 30+00 Tide 1923 H
Weather clear, winds SE 10-15 Kts, seas 2-3'
H_2O Surf Temp 81° Time 1720 Below Mid-Depth 80° Time 1722 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: CLR Deflector: OK
Stbd Draghead: CLR Deflector: OK
Port Discharge, Fore: ____ Mid: ____
Port Discharge, Aft: ____
Stbd Discharge, Fore: ____ Mid: ____
Stbd Discharge, Aft: ____
Port Overflow: ____
Stbd Overflow: ____
Overboard Discharge, Port: CLR Stbd: CLR

Comments: BEGAN LOAD #293, BUT LOADING VERY SLOW - DUMPED LOAD IN CHANNEL AND CONTINUED AGITATING THROUGH OVERBOARD DISCHARGES ONLY.
1718 - BEGAN SURVEY OF CHANNEL ON BAYOU TECHE, MERMENTAU STANDING BY.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman, T. McDonald

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District • WINTER 1996

Date: 6/13/96

Load # AGITATION **Times: Start** 0654 **End** 0810 **Dump** ——
Location(lat/long) -9 +40 → +30 +00 **Tide** 3.90FT.(EBB) 0812
Weather SEAS CALM; WIND SW 6KTS; CLEAR SKIES
H_2O Surf Temp _____ **Time** _____ **Below Mid-Depth** _____ **Time** _____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** ____

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: _____ **Mid:** _____
Port Discharge, Aft: _____
Stbd Discharge, Fore: _____ **Mid:** _____
Stbd Discharge, Aft: _____
Port Overflow: _____
Stbd Overflow: _____
Overboard Discharge, Port: _____ **Stbd:** _____

Comments: NEARING HIGH TIDE, SO BEGIN AGITATION AT 0654 - NO LOADING INTO HOPPER. THIS IS TO KNOCK DOWN THE SHOAL AREAS AND GET MORE SAND FREE FOR LOADING & PUMP-OUT.
0700 - P. WESTERMAN REPLACES C. MASON
0810 - END AGITATION, CHECK BOTH DRAGHEADS ONLY

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. McDonald

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 2/15/96

Load # 1 Times: Start 1020 End 1414 Dump 1505

Location(lat/long) -2700 +9700 Tide Low-Flood

Weather cloudy, winds SW 20knots, seas 1-3'

H_2O Surf. Temp 58 Time 1245 Below Mid-Depth 58 Time 1246 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK

Stbd Draghead: clear Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: 0

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: shell, plastic Stbd: shell

Comments: wheel washing, start digging 1252

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T.	4	1230	Cut

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/15/96

Load # 12 - 1 [illegible] Times: Start 2130 End 0212 Dump 0329-0630
Location(lat/long) -2+00 to 9+00 Tide Ebb
Weather Partly cloudy, winds W 15-20 Kts, seas 2-3
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: metal Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Trash, wood
Stbd Discharge, Fore: 0 Mid: Trash
Stbd Discharge, Aft: wrecks, trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: 0125 start pumping

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	1	0705	disposal site

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/16/96

Load # 03 Times: Start 0936 End 0930 Dump 1116
Location(lat/long) sts -2+00 +9+00 Tide 4.2 Ebb
Weather Partly cloudy winds NW 5 knots, Seas 2-3'
H_2O Surf Temp 58 Time 0735 Below Mid-Depth 58 Time 0735 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No✓

Port Draghead: clear Deflector: OK *
Stbd Draghead: clear Deflector: OK *
Port Discharge, Fore: shell, rock Mid: shell
Port Discharge, Aft: shell
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: rope shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments: only digging on starboard arm.
start back 0745

* TEDs are filling with sand making the dragarms very heavy and at times causing them to act like anchors

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	1	1215	At dumpsite

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/16/96

Load # 04 Times: Start 1523 End 1640 Dump 1758-2109
Location(lat/long) +2+00 to 9+00 Tide High
Weather Clear, winds W NW 20-25 kts, seas 2-3
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: wood, whelk
Stbd Discharge, Fore: 0 Mid: whelk
Stbd Discharge, Aft: Trash, whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: wood Stbd: 0

Comments: 2300 dropped anchor due to weather

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 2/7/96

Load # 05 Times: Start 1325 End 1738 Dump 1835 - 2200

Location(lat/long) Stg + 2100 + 900 Tide Low - Flood

Weather clear, wind 10-15 knots, seas 1-2

H_2O Surf. Temp 56 Time 1300 Below Mid-Depth 55 Time 1300 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK *

Stbd Draghead: clear Deflector: OK *

Port Discharge, Fore: shell, wood Mid:

Port Discharge, Aft: shell, wire

Stbd Discharge, Fore: clear Mid:

Stbd Discharge, Aft: shell

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: clear Stbd: shell

Comments: anchor picked up at 1315, weather clearing up.

1325 Agitation, 1512 starting to pump.

* TED's full of sand

Ted chains broken, shackled up.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1415	SE Cut

Observer(s) On Duty: Peter Wetterman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 2/17/96

Load # 06 Times: Start 2303 End 2344 Dump 0045 - 0159

Location(lat/long) STG +2400 - 9+00 Tide Ebb

Weather Clear, Winds NW 10-15knots, Seas 1-2

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector OK

Stbd Draghead: Fishing line Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: Whelk

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: shell, wood

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/18/96

Load # 07 Times: Start 0320 End 0426 Dump 0539 - 0941
Location(lat/long) Sta +200 - 900 Tide LOW - Flood
Weather clear, winds WNW 10 knots, Seas calm
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No √

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: Cham Broke Needs Welding
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: trash, wholks
Stbd Discharge, Fore: 0 Mid: shell
Stbd Discharge, Aft: trash, wholks
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: 300 agitating
Lost cut deflector fell out, chains broken. will be shackled or welded up.

stopped pumping ashore due to over problems

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/18/96

Load # 08 Times: Start 1039 End 1145 Dump 1318-1601
Location(lat/long) St 42+00 to 94+00 Tide H → L
Weather Clear, Winds W SW 5 kts,
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: shell Mid: clear
Port Discharge, Aft: wood, shell
Stbd Discharge, Fore: shell, cloth Mid: clear
Stbd Discharge, Aft: Shell, wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments: Deflectors have been repaired stiff full of sand though

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	4	1300-1315	seen on the way to the dump

Observer(s) On Duty: Pete Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/18/96

Load # 09 Times: Start 1713 End 2114 Dump 2215-
Location(lat/long) sta +2+00 to 9+00 Tide 2 Flood
Weather Clear winds 5 knots, Seas calm
H_2O Surf. Temp 57 Time 0755 Below Mid-Depth 57 Time 0755 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Horseshoe crab
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/19/96

Load # 10 Times: Start 0329 End 0434 Dump 0537-0840
Location(lat/long) Sta +2+00 to 9+00 Tide low - high
Weather clear, winds SW 10-15 Kts, seas 1-2
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: Clear Deflector: OK
Stbd Draghead: Clear Deflector: OK
Port Discharge, Fore: clear Mid: wood shell sand rubber
Port Discharge, Aft: shell, wood
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	908	between cut and dump
Tt	1	915	" "

Observer(s) On Duty: Peter Westermann

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/19/96

Load # 11 Times: Start 1000 End 1159 Dump 1245 - 1344
Location(lat/long) Sta +2+00 +900 Tide High - Ebb
Weather Partly cloudy, winds light airs, seas 1'
H_2O Surf.Temp 58 Time 0940 Below Mid-Depth 58 Time 0940 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK New shackles on
Stbd Draghead: 0 Deflector: OK New shackles on
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	1	0945	Cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/9/96

Load # 12 Times: Start 1458 End 1627 Dump 1724
Location(lat/long) Stg +200 / 9+00 Tide Low - Flood
Weather Partly cloudy, winds Southerly 0 knots, seas 1-2
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: shell Mid: clear
Port Discharge, Aft: clear
Stbd Discharge, Fore: shell, sand Mid: clear
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: wood Stbd: horsecrab

Comments: 1440 start agitating, 1458 start agitating with pumps. 1353 start Loading

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/19/96

Load # 13 Times: Start 2034 End 2317 Dump 0006-0315
Location(lat/long) Sta +2+00 to 9+00 Tide
Weather Partly Cloudy, winds SW 15-20 Kts, seas 1-2
H_2O Surf Temp / Time / Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: Gondolier
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 2/20/96

Load # 14 Times: Start 0430 End 0517 Dump 0700-

Location(lat/long) Sta +200+900 Tide Flood

Weather Partly cloudy, wind SW 15 knots, Seas 2-3

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: C Deflector: OK

Stbd Draghead: C Deflector: OK

Port Discharge, Fore: C Mid: C

Port Discharge, Aft: C

Stbd Discharge, Fore: C Mid: C

Stbd Discharge, Aft: C

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/20/96

Load # 15 Times: Start 1025 End 1124 Dump 1246
Location(lat/long) sta +2+00 to 9+00 Tide H → L
Weather Partly Cloudy, winds SSW 10-15 kts, seas 2-4
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: shell Mid: shell
Port Discharge, Aft: clear
Stbd Discharge, Fore: shell, rubber Mid: clear
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments: large swells from SW

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/20/96

Load # 16 Times: Start 1645 End 1738 Dump 1902 - 2219
Location(lat/long) Sta 700 to 9+00 Tide Low - Flood
Weather Cloudy, winds SW 10 knots, seas 2-3' SW
H_2O Surf. Temp 59 Time 1645 Below Mid-Depth 59 Time 1645 C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No √

Port Draghead: 0 Deflector: ____
Stbd Draghead: 0 Deflector: ____
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: ____
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: ____

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	4	1638	South of cut

Observer(s) On Duty: ____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/20/96

Load # 17 Times: Start 2325 End 0024 Dump 0116 - 432
Location(lat/long) Sta +2+00 - 9+00 Tide Flood
Weather clear, light airs, seas calm
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid:
Port Discharge, Aft: wood
Stbd Discharge, Fore: clear Mid: sand
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/21/96

Load # 18 Times: Start 0552 End 0704 Dump 0826-1231
Location(lat/long) Sta +2+00 to 9+00 Tide
Weather Fog, winds calm, seas calm 3-4 swell
H_2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: wood, shell
Stbd Discharge, Fore: shell Mid: clear
Stbd Discharge, Aft: wood, shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	4	1207	pump out station

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/21/96

Load # 19 Times: Start 1336 End 1358 Dump 1441 - 1621
Location(lat/long) SFC +200 - 9+00 Tide EBB LOW
Weather Partly cloudy, light grays, seas 2', SW
H_2O Surf Temp 60 Time 1345 Below Mid-Depth 60 Time 1345 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No (X)

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft:
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2 / 21 / 96

Load # 20 Times: Start 1859 End 2154 Dump 2300 - 0047
Location(lat/long) Sta +2+00 to 9+00 Tide
Weather Hazey overcast, winds SSW 0-5, seas calm 4' swells
H_2O Surf. Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: sanddollars Mid: clear
Port Discharge, Aft: clear
Stbd Discharge, Fore: plastic, shell Mid: clear
Stbd Discharge, Aft: blue crab
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments: little debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T7	6	1815	west of buoy # 2

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 2/22/96

Load # 21 Times: Start 0145 End 0205 Dump 0308 - 0437

Location(lat/long) Sta +2+00 - 6+00 Tide Ebb

Weather Fog, light airs, seas calm

H_2O Surf. Temp 60 Time 0150 Below Mid-Depth 60 Time 0150 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 Mid: Trash

Stbd Discharge, Aft: 0

Port Overflow:

Stbd Overflow:

Overboard Discharge, Port: 0 Stbd: 0

Comments: Dredge goes to anchor at 0603 due to fog.
1 Tm Stern of dredge 1708
Dredge left dock 1715

81° 27' 50" W
30 40 48" N

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/22/96

Load # 22 Times: Start 0043 End 0137 Dump 0242-0453
Location(lat/long) STG +2+00 - 9+00 Tide F to H
Weather Clear, winds SW 05, seas calm 3' swells
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Clear Deflector: OK
Stbd Draghead: Clear Deflector: OK
Port Discharge, Fore: rubber Mid: clear
Port Discharge, Aft: shell
Stbd Discharge, Fore: Clear Mid: Clear
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Kelly Westemeier

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/23/96

Load # 23 Times: Start 0815 End 1155 Dump 1252 - 1425
Location(lat/long) Sta 12+00 to 9+00 Tide Flood
Weather Fog, winds calm, seas calm
H_2O Surf. Temp 59 Time 0815 Below Mid-Depth 59 Time 0815 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: Start in hopper 0922

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	3	1014	cut
T+	1	1020	cut

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/23/96

Load # 24 Times: Start 1523 End 1550 Dump 1647-1818
Location(lat/long) Sts +2+00 + 9+00 Tide Ebb-Low
Weather Partly cloudy, Winds SW 10 Knots, seas 2-3 SW
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: clear
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments: No samples

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/23/96

Load # 25 Times: Start 2040 End 2321 Dump 0036 0240
Location(lat/long) Sta 7+00 to 9+00 Tide Ebb
Weather Clear, winds SW 10-15 kts, seas 2' swells,
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: O Deflector: OK
Stbd Draghead: O Deflector: OK
Port Discharge, Fore: O Mid: O
Port Discharge, Aft: O
Stbd Discharge, Fore: Trash Mid: O
Stbd Discharge, Aft: O
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: O Stbd: O

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Nostrand

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 2/24/96

Load # 26 Times: Start 0336 End 0430 Dump 0530-0701
Location(lat/long) Stg. + 2100 - 9100 Tide LOW - EBB
Weather Partly cloudy, winds SW 10 Knots, seas 2 SW
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: sandollar, whelks
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/24/96

Load # 27 Times: Start 0858 End 1132 Dump 1220/1350
Location(lat/long) sta +2+00 - 4+00 Tide Low to high
Weather Partly cloudy, winds W 15-20 kts, seas light chop
H_2O Surf. Temp / Time Below Mid-Depth Time °C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: shell, rubber
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: horseshoe crab, wood, shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Stbd:

Comments: agitation 0757 to 0858

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Wellhausen

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/24/96

Load # 28 Times: Start 1446 End 1552 Dump 1645 - 1800
Location(lat/long) Sta 12+00 to 9+00 Tide H ↗ L
Weather Clear, winds W 10-15, seas light chop
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: FD Solid bar bags broken
Stbd Draghead: Clear Deflector: OK
Port Discharge, Fore: wood shell Mid: clear
Port Discharge, Aft: bone
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Patty Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/29/96

Load # 29 Times: Start 2045 End 2236 Dump 2328-0155
Location(lat/long) Sta +2+00 + 900 Tide Low-Flood
Weather Mostly clear, winds SW 10 knots, seas 1-3 swell
H_2O Surf. Temp 60 Time 1900 Below Mid-Depth 62 Time 1900 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Whelks, trash
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Horseshoe crabs, whelks
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Decomposed fish, Horseshoe crabs Stbd: wood

Comments: Down for welding on Port TED: Agitating 1935 - 2045

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/25/96

Load # 30 Times: Start 0245 End 0420 Dump 0516
Location(lat/long) Sta 1+00 to 9+00 Tide H→L
Weather clear, winds variable, seas calm
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: Clear Deflector: OK
Port Discharge, Fore: Clear Mid: clear
Port Discharge, Aft: Clear
Stbd Discharge, Fore: Clear Mid: Clear
Stbd Discharge, Aft: Clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/25/96

Load # 31 Times: Start 1004 End 1213 Dump 1312-1513
Location(lat/long) STG +2+00 - 9+C 0 Tide Low - Flood
Weather clear, winds W 8 knots, seas 1-2 swell
H_2O Surf.Temp 61 Time 0900 Below Mid-Depth 62 Time 0900 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Horseshoe crab, whfk
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: Wood

Comments: 0815 sighting, whtd wash 0853 to 1004 unidentified turtle sighted on the way back to the cut. Turtle was large in size. Sighted floating on surface, as dredge got within a couple hundred feet the turtle it dove. Sighting was not good enough to I.d. species.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	3	1230	on way to dump
TT	2	1235	" "
unid	1	1530	unidentified turtle 29°51'05"N 81°15'05"

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/25/96

Load # 32 Times: Start 1602 End 1655 Dump 1818 - 1936
Location(lat/long) Sta +2+00 to 9+00 Tide H → L
Weather Clear, winds E 15 Kts, seas light chop
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: clear
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/25/96

Load # 33 Times: Start 0030 End 0310 Dump 0019-0228
Location(lat/long) Sta 2+00 to 9+00 Tide
Weather Clear, winds E 15kts, seas light chop
H_2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: shell
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments: 1734 - 1815 aground

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westlund

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/26/96

Load # 34 Times: Start 0332 End 0509 Dump 0641-0854
Location(lat/long) Sta +2+00 to 9+00 Tide Ebb
Weather fog, light airs, seas 1-2 swell
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: whelks
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: C
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Jf	2	0700	At Pump out station

Observer(s) On Duty: Erin Watterson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 2/06/96

Load # 35 Times: Start 1035 End 1246 Dump 1351 - 1557
Location(lat/long) Sta #2400 to 9400 Tide L to H
Weather Clear winds SE 5-8 Kts, seas light chop
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: shell, wood
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: shell, trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Pete Westermann

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/26/96

Load # 36 Times: Start 1649 End 1827 Dump 1928 - 2135
Location(lat/long) STA 2+00 + 9+00 Tide Ebb
Weather Partly cloudy, Winds Southerly, 10knots, Seas 1-2'
H_2O Surf. Temp 63 Time 1750 Below Mid-Depth 64 Time 1754 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: C
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: Wood, Horseshoe crab, whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/26/96

Load # 37 Times: Start 2225 End 0050 Dump 0146 - 0409
Location(lat/long) Sta +2+00+9+00 Tide Flood
Weather Partly cloudy, Winds Southerly 10knot, Seas
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Clear Deflector: OK
Stbd Draghead: Clear Deflector: OK
Port Discharge, Fore: Clear Mid: clear
Port Discharge, Aft: clear
Stbd Discharge, Fore: Clear Mid: clear
Stbd Discharge, Aft: wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: clear

Comments: TED's continue to show signs of wear and tear on the bottom portions.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/27/96

Load # 38 Times: Start 0806 End 0638 Dump 0726-0743
Location(lat/long) Sta +2+00 to 9+00 Tide H → L
Weather clear, winds variable, seas calm
H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes_____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: shell, wood
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/27/96

Load # 39 Times: Start 1117 End 1249 Dump 1350 – 1532
Location(lat/long) STA 2+00 TO 9+00 Tide LOW 0900
Weather CLEAR, WIND W 15, LIGHT CHOP, 1' SWELL
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: METAL PIPE Deflector: OK
Stbd Draghead: CLEAR Deflector: OK
Port Discharge, Fore: SHELL Mid: CLEAR
Port Discharge, Aft: CLEAR
Stbd Discharge, Fore: CLEAR Mid: CLEAR
Stbd Discharge, Aft: CLEAR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLEAR Stbd: CLEAR

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
BOTTLENOSE DOLPHIN	2	0945	AT PUMPOUT STATION
" "	2	0957	½ mi ENE PUMPOUT
" "	3	1005	1 mi NE "
" "	7	1023	½ mi S SEA BUOY. SOCIAL BEHAVIOR

Observer(s) On Duty: T. COLE

" "	2	1145	200m ENE CHANNEL MARKER "5"

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/27/96

Load # 40 Times: Start 1618 End 1749 Dump 1844-2046
Location(lat/long) Sta 2+00 to 9+00 Tide L > H
Weather Clear, winds W 5-8 kts, seas light chop
H_2O Surf.Temp 63° F Time 1600 Below Mid-Depth 61° F Time 1605 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: plastic hose Mid: clear
Port Discharge, Aft: clear
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Bottnose Dolphin	4	1532-45	spotted N of pumpout station

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/27/96

Load # 41 Times: Start 2136 End 0037 Dump 0135 - 0330
Location(lat/long) Sta 2+00 to 9+00 Tide LOW 2109
Weather Overcast, WINDS NW 5-8 kts, seas light chop
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: CLEAR Deflector: OK
Stbd Draghead: CLEAR Deflector: OK
Port Discharge, Fore: SHELL Mid: 10 SAND DOLLARS
Port Discharge, Aft: 1 HORSE SHOE CRAB
Stbd Discharge, Fore: CLEAR Mid: SHELL
Stbd Discharge, Aft: 2 HORSE SHOE CRABS, 2 SAND DOLLARS
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLEAR Stbd: CLEAR

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. COLE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/28/96

Load # 42 Times: Start 0425 End 0605 Dump 0656-0915
Location(lat/long) STA 2+00 TO 9+00 Tide 4106 0322
Weather FOG, LIGHT WIND, SWELL 1'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: CLEAR Deflector: OK
Stbd Draghead: CLEAR Deflector: OK
Port Discharge, Fore: CLEAR Mid: METAL WIRE
Port Discharge, Aft: 1 HORSESHOE CRAB, SHELL, WOOD
Stbd Discharge, Fore: CLEAR Mid: CLEAR
Stbd Discharge, Aft: SHELL
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLEAR Stbd: CLEAR

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. COLE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/28/96

Load # 43 Times: Start 1005 End 1305 Dump 1408 - 1540
Location(lat/long) Sta 2+00 to 9+00 Tide L→H
Weather Clear, winds E 15-20 kts, seas light chop
H_2O Surf.Temp 62° Time 11:30 Below Mid-Depth 62° Time 11:35 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No✓

Port Draghead: Clear Deflector: OK
Stbd Draghead: Clear Deflector: OK*
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: shell
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: wire, wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments: support bars have become loose and bottom continues to show wear

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	3	1040	Near buoy #4

Observer(s) On Duty: Peter Westermann

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/28/96

Load # 44 Times: Start 1830 End 1945 Dump 2032 - 2150
Location(lat/long) STA 2+00 to 9+00 Tide 1716H 15:43
Weather WIND W 12, CLOUD COVER 30%, SEAS 1' SWELL
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: CLEAR Deflector: OK
Stbd Draghead: CLEAR Deflector: OK
Port Discharge, Fore: CLEAR Mid: CLEAR
Port Discharge, Aft: CLEAR
Stbd Discharge, Fore: CLEAR Mid: CLEAR
Stbd Discharge, Aft: WOOD
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: WOOD Stbd: CLEAR

Comments: DRAGTENDERS RE-WELDED BRACKETS ON STBD TED.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. COLE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2/28/96

Load # 45 Times: Start 2240 End 0035 Dump 0133-0328
Location(lat/long) Sta 2+00 to 9+00 Tide
Weather overcast winds NE 15-20 seas light chop
H_2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: metal scrap, wood
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Wettinger

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 2 /29/96

Load # 46 Times: Start 0419 End 0615 Dump 0752 - 0927
Location(lat/long) sta 2400 to 9400 Tide L-7 H
Weather Overcast, winds N 20 Kts, seas 1-3 ft
H_2O Surf. Temp 61° Time 1200 Below Mid-Depth 62° Time 1155 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: Clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: metal scrap, wood
Stbd Discharge, Fore: Clear Mid: clear
Stbd Discharge, Aft: rubber debris
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: Clear

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 3 / 96

Load # 47 Times: Start 1218 End 1405 Dump 1533
Location(lat/long) Sta -2+00 to +20+00 Tide Ebb, Low
Weather Clear, seas calm, light airs, 72°
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No Ø

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: sand & shell Mid: sand + shell
Port Discharge, Aft: sand, shell
Stbd Discharge, Fore: clear Mid: sand/shell
Stbd Discharge, Aft: ~~clear~~ cleanose skate, whelk
Port Overflow: Ø
Stbd Overflow: Ø
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: fine sand

Dig w/ port side only for ½ load

sand collects inside the TED

cannonball jellyfish in the hopper

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	4-6	1230	around the cut
Tt	3	1450	by barge

Observer(s) On Duty: Pete Westerman, Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/3/96

Load # 48 Times: Start 1820 End 2051 Dump 2152
Location(lat/long) -2+00 → +20+00 Tide Flood H@1930 ish
Weather clear, Winds Calm, seas calm
H_2O Surf.Temp 61°F Time 1715 Below Mid-Depth 61°F Time 1718 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: shell
Stbd Discharge, Fore: shell, jellyfish Mid: shell
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Clear Stbd: Clear

Comments: Material: sand / coarse shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson, P. Westaman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 03/04/96

Load # 49 Times: Start 0148 End 0344 Dump 0443
Location(lat/long) Sta -2+00 - +20+00 Tide Low - flood
Weather Clear, Winds variable, seas calm, 56° F
H_2O Surf Temp _____ Time _____ Below Mid-Depth 60 Time 0505 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: Shell, trash, horseshoe crab
Stbd Discharge, Fore: Shell Mid: Shell, Line
Stbd Discharge, Aft: Shell, wood, horseshoe crab
Port Overflow: Ø
Stbd Overflow: Ø
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: fine sand, shell

Cannonballs in the hopper

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 4 / 96

Load # 50 Times: Start 0716 End 1000 Dump 1104
Location(lat/long) -2 to +20 Tide High - ebb
Weather Clear, seas 1'-2', Wind NW 5-10 Kt, 60'F Low 1338
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Shell Mid: Shell
Port Discharge, Aft: Shell
Stbd Discharge, Fore: Shell Mid: Shell
Stbd Discharge, Aft: Shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand and Shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 4 / 96

Load # 51 Times: Start 1344 End 1613 Dump 1850
Location(lat/long) Sta -2+00 - +20+00 Tide L to H
Weather Clear, winds SSW 15-20 kts, seas 4-5' swells
H_2O Surf.Temp 60°F Time 0350 Below Mid-Depth 61° Time 0350 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: rope shell Mid: clear
Port Discharge, Aft: large ray (Butterfly ray spiny or smooth mangled to be sure)
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: clear
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: clear Stbd: Clear

Comments: a sea turtle was spotted on the way to the dump, but submerged quickly. The turtle was spotted 2 mi NNE of the pumpout D.C.

2214 went to anchor for weather

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Dermocheleys coriacia	1		en route to dumpsite

Observer(s) On Duty: Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/7/96

Load # 52 Times: Start 0854 End 0841 Dump 1416
Location(lat/long) -2 to +20 Tide Flood
Weather Wind SW 15 ~~25~~ Kt, 67°F, Seas 3-4' swell, Cloudy
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: wire Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: shell Mid: shell
Port Discharge, Aft: Shell, line
Stbd Discharge, Fore: Ø Mid: Shell
Stbd Discharge, Aft: hosetonch
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: Sand and Shell

~~0755~~ 0945 -
stand by at dumpsite

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0816	N side of cut
Tt	2	0904	en route to dump

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/7/96

Load # 53 Times: Start 1708 End 1912 Dump 2014-2109
Location(lat/long) -2+00 to +20+00 Tide L→H
Weather Overcast/rain, winds SW-NW 20-25, seas 3-4
H_2O Surf Temp 63°F Time 1800 Below Mid-Depth 63°F Time 1805 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK
Stbd Draghead: clear Deflector: OK
Port Discharge, Fore: clear Mid: clear
Port Discharge, Aft: shell
Stbd Discharge, Fore: clear Mid: clear
Stbd Discharge, Aft: whale bone, turtle bone, shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: shell wood Stbd: shell

Comments: high winds, choppy seas

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	1	1455	spotted on the way back to the cut

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 3/8/96

Load # 54 Times: Start 1424 End 1646 Dump 0103 dump

Location(lat/long) -2 to +20 Tide L 7H

Weather clear, winds NNW 20-25 kts, seas 2-4

H_2O Surf Temp 63° F Time 1300 Below Mid-Depth 63° F Time 1305 *C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: OK

Stbd Draghead: clear Deflector: OK

Port Discharge, Fore: Rope, shell Mid: anchor part and chain

Port Discharge, Aft: wood, plastic debris, skate

Stbd Discharge, Fore: starfish, sanddollars Mid: sanddollars

Stbd Discharge, Aft: clear

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: anchor part Stbd: clear

Comments:

3/8 2-4 Tk by sea buoy at mooring 1000

* high winds/choppy water

Aborted pumpout due to STBD pump problem - unhooked @ 2030 and dumped load 0103. Left straight for fernandina for agitation and repairs

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	5	1400	Sea buoy
TT	4	1615	buoy #4

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/22/96

Load # 55 Times: Start 1309 End 1700 Dump 1810
Location(lat/long) -2 to +20 Tide Ebb
Weather clear, Seas 1', Wind WNW 5-10kt, 68°F
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Keyhole urchin, wire Mid: Keyhole urchin, shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Keyhole urchin, wire Mid: Keyhole urchin, rope, worms
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1438	in channel

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/23/96

Load # 56 Times: Start 0138 End 0600 Dump 0655
Location(lat/long) Stations -2 to +20 Tide Ebb
Weather skies clear, seas 1', wind W 5-10 kt, 50°F
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	3	0850	on return from pumpout
Tt	1	0913	S. of cut

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/28/96

Load # 57 Times: Start 1417 End 1730 Dump _____
Location(lat/long) -2 to +20 Tide Ebb
Weather Clear, NE 5-10 Kt, Seas 1', 65°F
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: line Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Metal, line, Keyhole urchins
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: trash Stbd: shell

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1614	in Channel

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 24 / 96

Load # 58 Times: Start 0355 End 0700 Dump 0750
Location(lat/long) Stations -2 to +20 Tide Ebb
Weather seas 1', winds SE 5-10 kt, skies partly cloudy
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: keyhole urchins, line
Port Discharge, Aft: horseshoe crab, keyhole urchin, trash, line
Stbd Discharge, Fore: keyhole urchins Mid: keyhole urchins
Stbd Discharge, Aft: keyhole urchins, plastic, metal debris
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: plastic

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 3/24/96

Load # 59 Times: Start 1628 End 1723 Dump 1826

Location(lat/long) -2 to +20 Tide Ebb

Weather Clear, Seas 2', Wind ESE 7-14 Kt

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector:

Stbd Draghead: Ø Deflector:

Port Discharge, Fore: Ø Mid: Shell, trash

Port Discharge, Aft: Shell, rock

Stbd Discharge, Fore: Ø Mid: Shell

Stbd Discharge, Aft: Shell, rock

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1625	channel

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 25 / 96

Load # 60 Times: Start 0445 End 0602 Dump 0707
Location(lat/long) Stations -2 to +20 Tide Flood
Weather clear, winds SE 10-15 kt, seas 2-3' swell, 62°
H_2O Surf Temp 62° Time CG Report Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: shell
Port Discharge, Aft: horseshoe crab
Stbd Discharge, Fore: 0 Mid: shell
Stbd Discharge, Aft: whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: rubber Stbd: shell

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/25/96

Load # 61 Times: Start 1400 End 1508 Dump 1614
Location(lat/long) Stations -2 to +20 Tide Ebb
Weather skies mostly clear, seas 3-5', wind SE 20-22 kt., Air Temp 68°
H_2O Surf Temp _____ Time 1428 Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: shell
Port Discharge, Aft: Oyster shell
Stbd Discharge, Fore: shell Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Cannonball jellyfish in the hopper.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. Henderson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/25/96

Load # 62 Times: Start 1927 End 2042 Dump 2158
Location(lat/long): Stations -2 to +20 Tide FLOOD
Weather skies mostly clear, seas 3-5, wind E 15-20 kt
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Oyster shells
Stbd Discharge, Aft: 1 SKATE (stingray)
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 1 small rubber tire Stbd: trash

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON, C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/26/96

Load # 63 Times: Start 0137 End 0228 Dump 0338
Location(lat/long) Stations -2 to +20 Tide E66
Weather skies partly cloudy, seas 3-5' swell, winds SE 5-10 kt, 64°
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: shell
Port Discharge, Aft: shell, whelk, wood
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: shell, wood, whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0623	Return from pumpout
Tt	1	0650	South of Channel

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 /26 / 96

Load # 64 Times: Start 0700 End 0745 Dump 0842
Location(lat/long) Stations -2 & +20 Tide Flood
Weather Partly cloudy, winds SE 5-10 kt, seas 3', 63°
H_2O Surf Temp 60° Time 1115 Below Mid-Depth _____ Time _____ C or F (circle one)
CG Report

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: Wood Deflector: ok
Stbd Draghead: Θ Deflector: ok
Port Discharge, Fore: shell Mid: shell, metal wire
Port Discharge, Aft: whelk, shell, rock, horseshoe crab, glass
Stbd Discharge, Fore: Θ Mid: Θ
Stbd Discharge, Aft: whelk, shell, wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Θ Stbd: Θ

Comments: Deck hosed to clear sand and shell from overboard discharges

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0954	East of pumpout
Tt	1	1025	N. of pumpout
Tt	1	1115	Return from pumpout

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/26/96

Load # 65 Times: Start 1326 End 1530 Dump 1625
Location(lat/long) Stations -2 to +20 Tide EBB
Weather Partly cloudy, winds E 5-10 kt., 70° temp
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/26/96

Load # 66 Times: Start 1847 End 1944 Dump 2039
Location(lat/long) Stations -2 to +20 Tide EBB
Weather Partly cloudy, winds SE, 5 kt, 65° temp
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/27/96

Load # 67 Times: Start 0019 End 0231 Dump 0335
Location(lat/long) Stations -2 to +20 Tide Flood High 0135
Weather Winds SE 5-10kt, seas 3-5' swell, skies clear/hazy
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: shell
Port Discharge, Aft: whelk
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: shell Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 3 /27/ 96

Load # 68 Times: Start 0557 End 0651 Dump 0750

Location(lat/long) Hatkins -2 to +20 Tide Ebb

Weather 64°, partly cloudy, winds 5-10 kt SE, seas 3' swell

H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: whelk Deflector: ok

Stbd Draghead: Ø Deflector: ok

Port Discharge, Fore: Ø Mid: shell

Port Discharge, Aft: shell

Stbd Discharge, Fore: shell Mid: sand, shell

Stbd Discharge, Aft: whelks, wood

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0633	Bottlenose dolphin in cut
Tt	1	1010	In transit from discharge

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 27 / 96

Load # 69 Times: Start 1031 End 1124 Dump 1220
Location(lat/long) Stations -2 to +20 Tide Flood
Weather overcast, seas 3-5' ground swell, winds SE 5kt, 67°
H_2O Surf. Temp 62°F Time C&E Rept Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: shell Mid: 0
Port Discharge, Aft: cloth, rope, shell
Stbd Discharge, Fore: 0 Mid: shell
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder, J. Henderson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/27/96

Load # 70 Times: Start 1432 End 1608 Dump 1708
Location(lat/long) Stations -2 to +20 Tide EBB
Weather skies cloudy, winds SSE 15-20 kts, seas 3-5, temp 68°
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: whelks Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 1 stingray Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/27/96

Load # 71 Times: Start 1933 End 2025 Dump 2126
Location(lat/long) Stations -2 to +20 Tide EBB
Weather cloudy & rainy, temp 64°, winds SE 15-20kt, seas 4-6 ft.
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: shell
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Went to Anchor at 0000 when returned to channel

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 28 / 96

Load # 72 Times: Start 0653 End 0803 Dump 0913
Location(lat/long) Stations -2 to +20 Tide Ebb
Weather Winds SE 10-15 kt, seas 3-6' swell, skies mostly cloudy, 64°
H_2O Surf. Temp 62° Time CG Report Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: wood Deflector: ok
Port Discharge, Fore: worm fragment, shell Mid: shell
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: shell
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0815	Just leaving channel

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/28/96

Load # 73 Times: Start 1147 End 1243 Dump 1408
Location(lat/long) Stations -2 to +20 Tide FLOOD
Weather partly cloudy, temp 78°, winds 15-20 kt NE, seas 3-6 ft.
H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes_____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: shell
Port Discharge, Aft: shell
Stbd Discharge, Fore: Ø Mid: shell
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/28/96

Load # 74 Times: Start 1702 End 1800 Dump 1900
Location(lat/long) stations -2 to +20 Tide EBB
Weather Raining, temp 65°, wind E 5-10 kt, seas 4-6 ft.
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/28/96

Load # 75 Times: Start 2137 End 2245 Dump 2347
Location(lat/long) stations -2 to +20 Tide FLOOD
Weather rainy, temp 60°, seas 3-5, wind W 5-10kt.
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: TRASH Deflector: OK
Port Discharge, Fore: shell Mid: 0
Port Discharge, Aft: whelks, shell, wood
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. HENDERSON, C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/29/96

Load # 76 Times: Start 0216 End 0311 Dump 0405
Location(lat/long) Stations -2 to +20 Tide Flood; High 0330
Weather Seas 2-4', skies overcast, 64°, winds SW 5-10 kt
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: whelks, rock, shell
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/29/96

Load # 77 Times: Start 0643 End 0752 Dump 0840
Location(lat/long) Stations -2 to +20 Tide Ebb Low 1002
Weather Skies clear, winds SW 10-15kt, seas 2-4' swell, 67°
H_2O Surf Temp 61° Time C&R Report Below Mid-Depth NA Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: shell Mid: 0
Port Discharge, Aft: sting ray, wood, shell, glass
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: wood, whelks
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: shell Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0742	Bottlenose dolphins in channel ~75' off dredge
Tt	1	0959	Bottlenose dolphin at pumpout

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/29/96

Load # 78 Times: Start 1104 End 1207 Dump 1257
Location(lat/long) Stations -2 to +20 Tide Flood
Weather 72°F, winds SW 10-15 kt, seas 2-4' swell and decreasing, skies mostly cloudy
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: shell Mid: shell
Port Discharge, Aft: wood
Stbd Discharge, Fore: shell Mid: shell
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
⇒ Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Ryder, T. Henderson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/29/96

Load # 79 Times: Start 1716 End 1852 Dump 1944
Location(lat/long) stations -2 to +20 Tide EBB low at 2219
Weather partly cloudy, temp 62°, seas 1-4 ft., wind N 5-10 kt
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: shell Mid: shell
Port Discharge, Aft: shell
Stbd Discharge, Fore: shell Mid: shell
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 1/30/96

Load # 80 Times: Start 2301 End 0017 Dump 0118
Location(lat/long) Stations -2 to +20 Tide Flood
Weather skies overcast, seas 1-3' swell, winds calm, 64°
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: whelks, shell Mid: shell
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: shell, wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. Henderson, C. Ryckl

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 13 01 96

Load # 81 Times: Start 0347 End 0454 Dump 0546
Location(lat/long) Stations -2+00 +20 Tide High 0427 Flood
Weather Seas 2-3', cloudy, winds NE 5-10 kt, 62°F
H_2O Surf Temp 61° Time 0420 CG Report Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: shell
Port Discharge, Aft: whelks, wood
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: wood, shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0730	Bottlenose dolphin at pumpout

Observer(s) On Duty: C. Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3 / 30 / 96

Load # 82 Times: Start 0900 End 1025 Dump 1115
Location(lat/long) Stations -2 to +20 Tide Ebb Low 1051
Weather Skies overcast, seas 1-3', winds N-NE 5-10 kt, 66°
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: shell
Port Discharge, Aft: wood, shell
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: wood, fiberglass, shell, whelks
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	1055	In transit to pumpout
Tt	1	1103	N. of pumpout

Observer(s) On Duty: C. Ryder, J. Henderson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/30/96

Load # 83 Times: Start 1351 End 1500 Dump 1550
Location(lat/long) stations -2 to +20 Tide FLOOD
Weather cloudy/rainy, temp 65°, seas 2-4, wind SE 5-10 KT.
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: wood & shells
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: wood & shells
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: 1945 Went to anchor due to high seas and winds

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/1/96

Load # 84 Times: Start 0522 End 0610 Dump 0732
Location(lat/long) Stations -2 to +20 Tide Flood
Weather Skies overcast/foggy, winds SW 5-10kt, seas 1-3' swell, light rain, 63°
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: shells
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: shells
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: In transit from fuel dock in Fernandina until 0502 when arrived back in St. Augustine channel. Resumed dredging at 0522.
Cheryl Ryder replaced by Pete Dooly.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	6	0802	Bottlenose dolphins at pumpout

Observer(s) On Duty: C. Ryder, J. Henderson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/1/96

Load # 85 Times: Start 1032 End 1120 Dump 1223
Location(lat/long) stations -2 to +20 Tide Ebb - Flood
Weather Partly cloudy, 1-3 seas, temp 72°, NW 15-20 kts
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON & PETE OLLEY

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 04/01/96

Load # 86 Times: Start 1509 End 1624 Dump 1716
Location(lat/long) -2 to +20 Tide Flood
Weather Partly cloudy, Sea state 1-3' Clear, temp 72° NW 15-20
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead: Ø Deflector: Ok
Stbd Draghead: Ø Deflector: Ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: bone, shell, trash
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Clear nosed skate, shell
Port Overflow: Ø
Stbd Overflow: Ø
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P. Dukes

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 04/01/96

Load # 87 Times: Start 2005 End 2110 Dump 2150
Location(lat/long) -2 to +20 Tide Flood Ebb
Weather partly cloudy, Sea State 3, winds NW 20 temp 58°
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Shell Mid: Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Small skate, Shell
Port Overflow: Ø
Stbd Overflow: Ø
Overboard Discharge, Port: Ø Stbd: Ø

Comments: loads are clear sand with a few worms and oyster shells

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P. Duley

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/2/96

Load # 88 Times: Start 0052 End 0142 Dump 0425
Location(lat/long) stations -2 to +20 Tide FLOOD
Weather cloudy, wind 15-25 KT NW, seas 1-3, temp 56°
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: 0 Deflector: ok
Stbd Draghead: 1 sthgray Deflector: ok
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: shells
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: shells
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: There was trouble connecting with the pumpout pipe. The cable became caught on something and delayed the pumpout.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/2/96

Load # 89 Times: Start 0641 End 0820 Dump 0915
Location(lat/long) Stations -2 to +20 Tide FLOOD - EBB
Weather partly cloudy, seas 2-4ft, temp 54°, wind NW 15-20 kt.
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Shell Mid: Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Shell Mid: Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0744	2 bottlenose heading south off Portside

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 04/02/96

Load # 90 Times: Start 1124 End 1214 Dump 1307
Location(lat/long) Stations -2 to +20 Tide Ebb
Weather Clear, Sea State 4, temp 56°. winds NNE 18 knots
H_2O Surf Temp 56° at Sink Time 1148 Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Oyster shell, welks
Port Discharge, Aft: Welks, oyster shell
Stbd Discharge, Fore: Ø Mid: oyster-welk shell
Stbd Discharge, Aft: Shell
Port Overflow: Ø
Stbd Overflow: Shell, sand
Overboard Discharge, Port: Ø Stbd: Ø

Comments: looks like Port overflow screening needs repair seas are too high to see. now 1235 will have a look when we pump out
1304 at the pump out area
Port overflow has no screening and needs repair.
spoke with the Cap about port overflow - Every thing comming into hopper is screened through pipes and port and starboard overboard discharge takes care of the rest.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P. Ouley

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 04 / 02 / 96

Load # 91 Times: Start 1533 End 1624 Dump 1834
Location(lat/long) Stations -2 to +20 Tide EBB
Weather Clear, Sea state 4, temp 56° winds NNE at 18 knots
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Shell
Stbd Discharge, Fore: Ø Mid: Shell oyster & Welk
Stbd Discharge, Aft: Oyster Shell, wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: PETE DULEY

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 04/02/96

Load # 92 Times: Start 1934 End 2030 Dump 2202
Location(lat/long) -2 to +20 Tide Flood - Ebb
Weather Clear Sea State 3, temp 54° winds E at 10 knots
H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No V

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: oyster shell
Port Discharge, Aft: shell, wood
Stbd Discharge, Fore: Ø Mid: oyster shell
Stbd Discharge, Aft: shell oyster & welk
Port Overflow: Ø
Stbd Overflow: Ø
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P. Owley

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/3/96

Load # 93 Times: Start 0029 End 0128 Dump 0229
Location(lat/long) stations -2 to +20 Tide EBB
Weather clear, temp 54°, seastate 2-3 ft., winds S 5-10 kt.
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: shell
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/3/96

Load # 94 Times: Start 0448 End 0530 Dump 0630
Location(lat/long) Stations -2 to +20 Tide FLOOD
Weather clear, winds 0-10 kt N, seastate 2-3, temp 56°
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Shell Mid: Ø
Port Discharge, Aft: Shell
Stbd Discharge, Fore: Shell Mid: Shell
Stbd Discharge, Aft: Shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	1	0610	Heading north

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/3/96

Load # 95 Times: Start 0949 End 1100 Dump 1156
Location(lat/long) stations -2 to +20 Tide EBB
Weather clear, temp 68°, seastate 2-5, wind N 5-10 KT
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: shell
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: trail Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1020	leading north of pumpout site

Observer(s) On Duty: J. HENDERSON / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/3/96

Load # 96 Times: Start 1419 End 1515 Dump 1755
Location(lat/long) sta 2+20 Tide 0.8 Ebb
Weather Partly cloudy, Winds E 5 knots, Seas 4 Swell, 72°
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Trash
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: whelk wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/3/96

Load # 97 Times: Start 2030 End 2150 Dump 2238
Location(lat/long) STG -2+20 Tide 5.2
Weather Partly cloudy, winds 5 10 knots, seas swell 4
H_2O Surf.Temp 62 Time 2040 Below Mid-Depth 62 Time 2040 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: whelk
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: whelk, trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: Trash

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/4/96

Load # 98 Times: Start 0110 End 0158 Dump 0407
Location(lat/long) Stations -2 to +20 Tide EBB
Weather partly cloudy, 62°, seas 1-3 ft, wind W 5-10 kt
H_2O Surf.Temp ~~/~~ Time ____ Below Mid-Depth ____ Time ____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: OC
Stbd Draghead: Ø Deflector: OC
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: shell + wood
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/4/96

Load # 99 Times: Start 0712 End 0914 Dump 1001
Location(lat/long) Stations -2 to +20 Tide FLOOD - EBB
Weather clear, temp. 64°, seas 2 ft, winds WSW 5-10 kt.
H_2O Surf. Temp ____ Time ____ Below Mid-Depth ____ Time ____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/9/96

Load # 100 Times: Start 1154 End 1249 Dump 1338
Location(lat/long) sta -2 to +20 Tide 1.8 Ebb
Weather Partly sunny, winds sb/0 knots, seas 1-3'
H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: wood
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	1	1135	½ back to cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/9/96

Load # 101 Times: Start 1557 End 1657 Dump 1806
Location(lat/long) Stn 2+20 Tide 3.3 Flood
Weather Mostly clear, wind SE 15 knots, Seas 1-2'
H_2O Surf. Temp 68 Time 1600 Below Mid-Depth 67 Time 1600 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Whelk
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4, 4, 96

Load # 102 Times: Start 2049 End 2275 Dump 0041
Location(lat/long) sta -2 + 20 Tide High
Weather Partly cloudy, Wind Southerly 8 knots, seas calm
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: C
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: Check
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/5/96

Load # 103 Times: Start 0130 End 0225 Dump 0326
Location(lat/long) stations -2 to +20 Tide EBB
Weather partly cloudy, wind NNE 5-10 KT, seastate 1-2 ft, temp. 64°
H_2O Surf.Temp 66° Time 0218 Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/5/96

Load # 104 Times: Start 0555 End 0700 Dump 0800
Location(lat/long) Stations -2 to +20 Tide FLOOD
Weather clear, wind SW 5-10 KT, seastate 1-2, temp 64°
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/5/96

Load # 105 Times: Start 1042 End 1248 Dump 1340
Location(lat/long) Stations -2 to +20 Tide Ebb
Weather partly cloudy, seas 1-2, S 5-10 kt, temp 68°
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: whelk
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: weed, whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	8	1510	Pumpout station

Observer(s) On Duty: J. HENDERSON + ERIC WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/5/96

Load # 106 Times: Start 1553 End 1711 Dump 1812
Location(lat/long) stg -2 to +20 Tide Low
Weather Partly cloudy, winds S 10 knots, seas 1-2
H_2O Surf.Temp 68 Time 1616 Below Mid-Depth 67 Time 1616 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: whelk
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Horseshoe crabs, wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	6	1546	Nav cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/5/96

Load # 107 Times: Start 2023 End 2239 Dump 2335
Location(lat/long) stg -2 f20 Tide High
Weather mostly clear, winds 5 to 8 knots, seas calm
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Trash
Stbd Discharge, Fore: 0 Mid: Trash
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/6/96

Load # 108 Times: Start 0136 End 0238 Dump 0331
Location(lat/long) stations -2 to +20 Tide EBB
Weather hz 2½, wind W 5-10Kt, temp 64, seas 1-2
H_2O Surf.Temp ____ Time ____ Below Mid-Depth ____ Time ____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/6/96

Load # 109 Times: Start 0540 End 0638 Dump 0735
Location(lat/long) Stations -2 to +20 Tide FLOOD
Weather HAZY, 64°, wind W 10-15 kt, seas 1-2 ft.
H_2O Surf Temp 66° Time 0830 Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: horseshoe crab & clearnose stingray
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/6/96

Load # 110 Times: Start 0956 End 1257 Dump 1347
Location(lat/long) Stations -2 to +20 Tide EBB
Weather cloudy, temp. 64°, seas 1-2, wind W 10-15
H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes_____ No V

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: C
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: C
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C Stbd: C

Comments: port hydraulic line on one of the drag head davits burst. It was repaired and dredging resumed.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON & ERIC WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/6/96

Load # 111 Times: Start 1856 End 1719 Dump 1820
Location(lat/long) STC -2 +20 Tide Low
Weather cloudy, light rain, winds SW 20knots, seas 1-2'
H_2O Surf Temp 68 Time 1600 Below Mid-Depth 67 Time 1600 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/6/96

Load # 112 Times: Start 2033 End 2345 Dump 0155
Location(lat/long) STA -7+20 Tide 4.5 Ebb
Weather cloudy, light AIRS, seas calm
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman & JIM HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4 / 7 / 96

Load # 113 Times: Start 0402 End 0513 Dump 0601
Location(lat/long) stations -2 to +20 Tide FLOOD
Weather 68°, hazy, seas 1-ft, wind NE 15-20
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 4/7/96

~~Hopper~~

Load # 114 Times: Start 0835 End 1100 Dump 1153

Location(lat/long) Stations -2 to +20 Tide FLOOD

Weather cloudy, wind NE 15-20, ~~temp~~°, seas 2-3, temp 58°

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok

Stbd Draghead: Ø Deflector: ok

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 3/7/96

~~Agitation~~

Load # 115 Times: Start 1355 End 1554 Dump 1647

Location(lat/long) stg -2 +20 Tide 3.3 Ebb

Weather cloudy, winds N 15-20 knots, seas 3-4'

H_2O Surf Temp 62 Time 1410 Below Mid-Depth 61 Time 1410 C or ~~F~~ (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: O Deflector: OK

Stbd Draghead: O Deflector: OK

Port Discharge, Fore: O Mid: O

Port Discharge, Aft: shackle

Stbd Discharge, Fore: O Mid: shackle

Stbd Discharge, Aft: O

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: O Stbd: O

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1510	Buoy 4A

Observer(s) On Duty: Eric Weisman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU · Kings Bay Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/7/96

Load # Agitation 116 Times: Start 1850 End 2005 Dump 2100
Location(lat/long) STG -2 +20 Tide
Weather Partly cloudy, winds N 15 Knots, SEAS 2-4
H_2O Surf.Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No V

Port Draghead: O Deflector: OK
Stbd Draghead: O Deflector: OK
Port Discharge, Fore: O Mid: O
Port Discharge, Aft: O
Stbd Discharge, Fore: O Mid: O
Stbd Discharge, Aft: whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: O Stbd: O

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU · Kings Bay Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/7/96

Load # ~~Agriculture~~ 117 Times: Start 2310 End 0141 Dump 0239
Location(lat/long) STG-2+20 Tide High
Weather clear, wind SE 10 knots, seas 2-4'
H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok
Stbd Draghead: Ø Deflector: ok
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC WESTERMAN + JIM HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 4/8/96

~~Agitation~~

Load # 118 Times: Start 0451 End 0555 Dump 0710

Location(lat/long) station -2 to +20 Tide EBB

Weather Wind NE 10-20 kt, temp 60°, seas 2-4, partly cloudy

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: ok

Stbd Draghead: 0 Deflector: ok

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: shell

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: 0

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. HENDERSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 3/8/96

~~Agitation~~

Load # 119 Times: Start 0925 End 1305 Dump 1522

Location(lat/long) -2 to +20 Tide Flood

Weather mostly cloudy, seas 2-4', winds light 64°F

H_2O Surf. Temp 63° Time 1230 Below Mid-Depth 63° Time 1230 C or ~~F~~ (circle one)

Are there incidents involving endangered or protected species? Yes____ No✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: Trash

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1320	To Ocean
TT	1	1340	To Ocean
TT	3	1540	Near Tiplic

Observer(s) On Duty: Kathryn Stephenson / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 3/8/96

Load # 120 Times: Start 1611 End 1712 Dump 1800
Location(lat/long) STG -2 + 20 Tide
Weather Part/x cloudy, winds NE 10 knots, seas swell 3-4
H_2O Surf. Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: whelk
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: whelks
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/18/96

Load # 121 Times: Start 2033 End 2312 Dump 00000
Location(lat/long) Sta -2 +20 Tide Low
Weather Partly cloudy, wind N 11 knots, seas 2'-3'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: sand dollar
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 3/9/96

Load # 122 Times: Start 0213 End 0413 Dump 0507
Location(lat/long) -2 to +20 WSE Tide Ebb
Weather Clear, 60°F, Winds light, Seas 2-4'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: whelk, old bone
Stbd Discharge, Fore: Ø Mid: Shell
Stbd Discharge, Aft: whelk, wood, cannonball jellyfish
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: coarse sand, shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/9/96

Load # 123 Times: Start 0708 End 0827 Dump 0926
Location(lat/long) -2 to +20 Tide Low ~0728, flood
Weather Wind W, 10-12 KE, Seas 2-3' swell, partly cloudy
H_2O Surf. Temp 63° Time 1042 Below Mid-Depth 64° Time 1040 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: wood, mono line, metal Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Shell Mid: Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Shell Mid: Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Shell

Comments: Material: Sand (coarse) & Shell
cannonball jellyfish at pumpout

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0930	at pumpout
Tt	7	0947	at pumpout

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/9/96

Load # 124 Times: Start 1206 End 1531 Dump 1628
Location(lat/long) -2 to +20 Tide ok
Weather mostly cloudy, seas 1', Wind W 5-10 Kt, 62°
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: Metal, fishing line Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: wood
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	1155	en route to cut
Tt	2	1200	near channel

Observer(s) On Duty: E. Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/9/96

Load # 125 Times: Start 1827 End 1938 Dump 2042
Location(lat/long) -2 to +20 Tide Low
Weather Mostly cloudy, winds N 5-10 knots, seas 1-2
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead: 0 Deflector: 0/0
Stbd Draghead: 0 Deflector: 0/0
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	2	1837	cut

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4,9,96

Load # 126 Times: Start 2237 End 0039 Dump 0135
Location(lat/long) Sta -2 to +20 Tide 2.8 Flood
Weather clear, winds NW 15-20 knots, seas 1-3'
H_2O Surf Temp 64 Time 2240 Below Mid-Depth 64 Time 2240 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: wood Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: Shell, trash
Stbd Discharge, Fore: shell Mid: Shell
Stbd Discharge, Aft: wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: Coarse sand, shell
cannonball jellyfish in the hopper.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/10/96

Load # 127 **Times: Start** 1114 **End** 1302 **Dump** 1353

Location(lat/long) -2 to +20 **Tide** Flood

Weather Wind NNW 10-15Kt, Seas 3-5', Clear, 58°F

H_2O Surf Temp 63 **Time** 1050 ↳ at sea buoy **Below Mid-Depth** 63 **Time** 1052 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** V

Port Draghead: C **Deflector:** OK

Stbd Draghead: C **Deflector:** OK

Port Discharge, Fore: C **Mid:** O

Port Discharge, Aft: C

Stbd Discharge, Fore: C **Mid:** O

Stbd Discharge, Aft: C

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: C **Stbd:** C

Comments:

~0340 decided to anchor for weather NW winds to 25Kt
1053 returned to work

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson / Waterman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/10/96

Load # 128 Times: Start 1536 End 1709 Dump 1755
Location(lat/long) sta -2 to +20 Tide Ebb
Weather clear, winds northerly 7-10 knots, seas 3 swell
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Horseshoe crabs
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: w/hole
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/10/96

Load # 129 **Times: Start** 1950 **End** 2125 **Dump** 2222
Location(lat/long) -2 to +20 **Tide** Ebb
Weather clear, winds NE 10 knots, seas 3 swell
H_2O Surf Temp 64 **Time** 2000 **Below Mid-Depth** 65 **Time** 2000 **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C **Deflector:** OK
Stbd Draghead: C **Deflector:** OK
Port Discharge, Fore: C **Mid:** C
Port Discharge, Aft: w/c/k
Stbd Discharge, Fore: C **Mid:** C
Stbd Discharge, Aft: C
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C **Stbd:** C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/11/96

Load # 130 Times: Start 0035 End 0316 Dump 0413
Location(lat/long) -2 to +20 Tide Flood
Weather Clear, Wind W 10 kts, Seas 2-3' swell, 55°F
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Shell Mid: Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Shell Mid: Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand + shell
Cannonballs in the hopper

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/11/96

Load # 131 Times: Start 0617 End 0755 Dump 0857
Location(lat/long) -2 to +20 Tide Ebb
Weather Seas 2-3' swell, wind W 10kt, clear 50°
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: horseshoe crab, shell
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand and shell
flat clawed hermit crab in the hopper

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
lt	2	0700	S of cut

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/11/96

Load # 132 **Times: Start** 1055 **End** 1330 **Dump** 1432
Location(lat/long) -2 to +20 **Tide** Flood
Weather Clear, Wind W 5-10, Seas 1-2' swell, 60°F
H_2O Surf.Temp 64°F **Time** 1057 **Below Mid-Depth** 63°F **Time** 1055 **C or (F) (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** ✓

Port Draghead: 0 **Deflector:** OK
Stbd Draghead: 0 **Deflector:** OK
Port Discharge, Fore: 0 **Mid:** 0
Port Discharge, Aft: whelk
Stbd Discharge, Fore: 0 **Mid:** 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 **Stbd:** 0

Comments:
lots of cannonball jellyfish in the water
Reported by the chief and one crew member. Sighted sea turtle on the starboard side of the dredge. chief said turtle dove as dredge went by. chief reported the turtle was light in color and small in size. observer was looking on the side at the time. when observer looked over to the starboard side, the turtle had already dove. 29° 50.94' N
81 15.38' W

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	3	1044	en route to cut
Tt	3	1155	in the cut
tt	7	1217	cut area
undentified turtle	1	1555	on the way back to the cut, near the pier

Observer(s) On Duty: K. Stephenson / E. Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/11/96

Load # 133 Times: Start 1625 End 1855 Dump 1952
Location(lat/long) Stg -2 to +20 Tide 4. Flood
Weather cloudy, winds SE 10 knots, seas 1-2'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: shell
Stbd Discharge, Fore: 0 Mid: oyster shell
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Masterson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/11/96

Load # 134 Times: Start 2203 End 2342 Dump 0044
Location(lat/long) sta -2+20 Tide 0.2 Low
Weather clear, winds SE 10-15 knots, seas 1-3'
H_2O Surf Temp 65 Time 2203 Below Mid-Depth 65 Time 2203 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Shell Mid: Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: coarse sand

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/12/96

Load # 135 Times: Start 0237 End 0506 Dump 0554
Location(lat/long) -2 to +20 Tide Flood
Weather Wind light, Seas 1-2' swell, clear, 56°F
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Shell Mid: Ø
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: Sand and Shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/12/96

Load # 136 **Times: Start** 0756 **End** 0915 **Dump** 1008
Location(lat/long) -2 to +20 **Tide** Ebb
Weather Partly Cloudy, Wind WLY 10 Kt, Seas 1-2', 64°F
H_2O Surf. Temp 63° **Time** 0810 **Below Mid-Depth** 63° **Time** 0808 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: Ø **Deflector:** OK
Stbd Draghead: Ø **Deflector:** OK
Port Discharge, Fore: Shell **Mid:** Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø **Mid:** Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø **Stbd:** Shell

Comments: Sand + Shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TD	5	0915	in cut

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/12/96

Load # 137 Times: Start 1134 End 1623 Dump 1711
Location(lat/long) -2 to +20 Tide Flood
Weather clear, winds S/10 knots, seas calm
H_2O Surf Temp 65 Time 1230 Below Mid-Depth 65 Time 1230 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1917	Near buoy 2#

Observer(s) On Duty: K. Stephenson / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/12/96

Load # 138 Times: Start 1922 End 2048 Dump 2147
Location(lat/long) Stn -2 to +20 Tide Ebb
Weather Mostly cloudy, winds S 15-20 knots, seas 2-3'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/13/96

Load # 135 **Times: Start** 0512 **End** 0520 **Dump** 0414
Location(lat/long) Sta -2 to +20 **Tide** Flood.
Weather partly cloudy, Wind SW 5-10 Kts, 63°F, Seas 2-3' swell
H_2O Surf Temp____ **Time**____ **Below Mid-Depth**____ **Time**____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ **No** X

Port Draghead: Ø **Deflector:** OK
Stbd Draghead: worn **Deflector:** OK
Port Discharge, Fore: Ø **Mid:** Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø **Mid:** Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: Sand and Shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/13/96

Load # 140 **Times: Start** 0630 **End** 0818 **Dump** 0907
Location(lat/long) -2 to +20 **Tide** Ebb
Weather Partly cloudy, seas 1-2' swell, 62°F, Wind SSW 5-15 kts
H_2O Surf Temp 64° **Time** 0747 **Below Mid-Depth** 63° **Time** 0750 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: Ø **Deflector:** OK
Stbd Draghead: Shell **Deflector:** OK
Port Discharge, Fore: Ø **Mid:** Shell
Port Discharge, Aft: Smooth butterfly ray
Stbd Discharge, Fore: Ø **Mid:** Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: Material: sand & shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	0723	mouth of jetties
TT	6	0740	N of cut

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/13/96

Load # 141 Times: Start 1251 End 1549 Dump 1642
Location(lat/long) -2 to +20 Tide low @ 1130
Weather Wind WSW 15-20 kts, Seas 2-3' swell Mostly cloudy, 74°F
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: wood
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: C
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1204	out

Observer(s) On Duty: E. Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/13/96

Load # 142 **Times: Start** 1912 **End** 2231 **Dump** 2319?
Location(lat/long) Sta -2 to +20 **Tide** 4.1 E66
Weather clear, winds w 20knots, seas 1-2
H_2O Surf.Temp 63 **Time** 1930 **Below Mid-Depth** 65 **Time** 1930 **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 **Deflector:** OK
Stbd Draghead: 0 **Deflector:** OK
Port Discharge, Fore: 0 **Mid:** 0
Port Discharge, Aft: wood, trash
Stbd Discharge, Fore: 0 **Mid:** shark parts
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 **Stbd:** 0

Comments:

Left St. Aug at 0031 to sail for fuel in Fernandina
Arrived 0700 - 1050 fuel
Returned to St Aug @ 1100

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/14/96

Load # 143 Times: Start 1840 End 2125 Dump 2213
Location(lat/long) Stg -2 to +20 Tide 4.8 Flood
Weather Clear, winds S 10-15 Knots, Seas 1-3
H_2O Surf Temp 63 Time 1840 Below Mid-Depth 64 Time 1840 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: catfish parts
Stbd Discharge, Aft: catfish parts
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments: Large Green sea turtle was sighted floating on the water at 1500. as the dredge went by the turtle dove. 40 feet of the starboard side. The T.E.D.s agate iron repairs were completed on the way back to st Augustine.

dredge left dock at 1100 after fueling.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0652	Amelia River
Cm	1	1500	30 16 00 N 81° 18 24 W

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/15/96

Load # 144 Times: Start 0154 End 0326 Dump 0430
Location(lat/long) -2 to +20 Tide Low ~1240 Flood
Weather Partly cloudy, Seas 1-2' swell, 67°F, Wind S 10 kts
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: Shell, wood
Stbd Discharge, Fore: Ø Mid: Shell
Stbd Discharge, Aft: Shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand and shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/15/96

Load # 145 Times: Start 0625 End 0930 Dump 1018
Location(lat/long) -2 to +20 Tide H ~0654 Ebb
Weather Partly cloudy, Seas 1-2', Winds SW 10kt, 66°F
H_2O Surf Temp 64 Time 0655 Below Mid-Depth 62 Time 0657 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No K

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Keyhole urchin Mid: trash
Stbd Discharge, Aft: trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand and shell

Cannonball & Lions mane jellyfish in the area

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0640	by seabuoy
Tt	4	0710	in cut
Tt	4	0815	in cut

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/15/96

Load # 146 Times: Start 1227 End 1907 Dump 1956
Location(lat/long) Sta -2 to +20 Tide Low
Weather Mostly cloudy, winds SE 10-15 knots, seas 1-3'
H_2O Surf Temp 64 Time 1716 Below Mid-Depth 65 Time 1716 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: wood
Stbd Discharge, Fore: wood Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1355	outside cut
TT	8	1600 cont	outside cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/15/96

Load # 147 Times: Start 2156 End 2345 Dump 0046
Location(lat/long) STG -2 +0. +2 0 Tide 3.9 Flood
Weather Cloudy, winds S-SE 20 knots, seas 2'-4'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: Whelk
Stbd Discharge, Fore: Ø Mid: Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: Sand & Shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman / Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/16/96

Load # 148 Times: Start 0235 End 0507 Dump 0604
Location(lat/long) -2 to +25 Tide Flood
Weather Seas 2-3', Wind WNW 10-20 kts, mostly cloudy, 65°F
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: horseshoe crab
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand & shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/16/96

Load # 149 **Times: Start** 0839 **End** 1045 **Dump** 1142
Location(lat/long) -2 to +20 **Tide** H~0750 Ebb
Weather partly cloudy, Seas 2-4', Wind NW 20-30 ft, 62°F
H_2O Surf.Temp 63 **Time** 0847 **Below Mid-Depth** 62 **Time** 0852 **C or (F) (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: Ø **Deflector:** OK
Stbd Draghead: Ø **Deflector:** OK
Port Discharge, Fore: Line **Mid:** shell, Keyhole urchin
Port Discharge, Aft: trash, Keyhole urchin
Stbd Discharge, Fore: Ø **Mid:** Ø
Stbd Discharge, Aft: Whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: Material: sand and shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0830	back from pumpout
Tt	2	1002	in cut
Tt	3, 4	Total 1315	Near the pier
Tt	2	1325	½ way back to the cut

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/16/96

Load # 150 Times: Start 1609 End 1948 Dump 2057
Location(lat/long) sta -2 to +20 Tide 1. Flood
Weather clear, wind NW 10-15knots, seas swell 3'
H_2O Surf.Temp 65 Time 1430 Below Mid-Depth 66 Time 1430 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: ok
Stbd Draghead: 0 Deflector: ok
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
lt	8	1600	Cut area

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/17/96

Load # 151 **Times: Start** 2307 **End** 0033 **Dump** 0123
Location(lat/long) Sta -2 to +20 **Tide** 3.1 Ebb Lw 0240
Weather clear, winds NW 5 knots, seas calm 62°F
H_2O Surf Temp____ **Time**____ **Below Mid-Depth**____ **Time**____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ **No** K

Port Draghead: Ø **Deflector:** OK
Stbd Draghead: Ø **Deflector:** OK
Port Discharge, Fore: Ø **Mid:** shell
Port Discharge, Aft: shell, trash
Stbd Discharge, Fore: Ø **Mid:** shell
Stbd Discharge, Aft: shell
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: Material Sand & Shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: westerman/stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MENTAU* - St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 4/17/96

Load # 152 Times: Start 0405 End 0716 Dump 0804

Location(lat/long) -2 to +20 Tide flood

Weather clear, seas 1-2' swell, 56°F, wind NW 10-15

H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: smooth butterfly ray

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø Stbd: lady crab

Comments: Material: sand and shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ft	3	0755	at pumpout

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/17/96

Load # 153 **Times: Start** 1021 **End** 1247 **Dump** 1335
Location(lat/long) -2 to +20 **Tide** Ebb
Weather Partly cloudy, Seas calm, 66°F, Wind NW 5-10 Kts
H_2O Surf Temp 64° **Time** 1032 **Below Mid-Depth** 63° **Time** 1035 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** ✓

Port Draghead: 0 **Deflector:** OK
Stbd Draghead: 0 **Deflector:** OK
Port Discharge, Fore: 0 **Mid:** 0
Port Discharge, Aft: wet
Stbd Discharge, Fore: 0 **Mid:** 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 **Stbd:** 0

Comments: Material: sand and shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1047	N of cut
Tt	3	1100	near sea buoy
Tt	1	1245	near cut
It	1	1255	N of cut

Observer(s) On Duty: K. Stephenson / E. Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/17/96

Load # 154 **Times: Start** 1522 **End** 1928 **Dump** 2026
Location(lat/long) stg -2 TO +20 **Tide** Low - Flood
Weather cloudy, wind, NE 5 knots, Seas 1-2'
H_2O Surf Temp 69 **Time** 1925 **Below Mid-Depth** 65 **Time** 1925 **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: O **Deflector:** bracket weld broken
Stbd Draghead: O **Deflector:** bracket weld broken
Port Discharge, Fore: O **Mid:** O
Port Discharge, Aft: wood
Stbd Discharge, Fore: O **Mid:** O
Stbd Discharge, Aft: whelk
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: O **Stbd:** O

Comments: Bracket weld broken, TED is still fully functional. This will be welded back together on load 155 when the welder is on duty. TED repaired before digging the next Load.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
LT	2	1805	N ifcut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/18/96

Load # 155 Times: Start 0103 End 0220 Dump 0817
Location(lat/long) Sta -2 to +20 Tide 4.3 Ebb
Weather mostly clear, winds SE 10knots, seas 1-2'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: repaired-OK
Stbd Draghead: Ø Deflector: repaired-OK
Port Discharge, Fore: Ø Mid: shell
Port Discharge, Aft: shell, wood
Stbd Discharge, Fore: Ø Mid: shell
Stbd Discharge, Aft: shell, starfish, line
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: metal, wood Stbd: shell

Comments: Material: sand and shell
Brackets on TEDS welded

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Stephensen

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/18/96

Load # 156 Times: Start 0535 End 0800 Dump 0853
Location(lat/long) -2+00 to +20+00 Tide L~0334 Flood
Weather partly cloudy, Seas 1' swell, Winds light, 56°F
H_2O Surf Temp 64° Time 0647 Below Mid-Depth 64° Time 0655 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Shell
Stbd Discharge, Aft: Wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand and shell

HUGE numbers of lion's mane jellyfish in the water - and cannonballs too!

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0728	SJR cut
Tt	3	0743	SEAS cut
Tt	2	0830	en route to pumpout

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/18/96

Load # 157 Times: Start 1107 End 1328 Dump 1546
Location(lat/long) -2 to +20 Tide Hw 0930 Ebb
Weather Cloudy, seas 1', Wind southerly 5 knots,
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: C
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: Cutter fly Ray
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Rt	1	1052	back from pumpout
tt	8	continuous	in and around the cut

Observer(s) On Duty: K. Stephenson / E Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/18/96

Load # 158 Times: Start 1731 End 2026 Dump 2136
Location(lat/long) sta -2 to +20 Tide Low - Flood
Weather Partly cloudy, winds light airs, seas calm
H_2O Surf Temp 64 Time _____ Below Mid-Depth 65 Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	6	continous	cutarea

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/19/96

Load # 159 Times: Start 0007 End 0205 Dump 0300
Location(lat/long) -2 to +20 Tide Ebb
Weather Clear, Winds 10 kts, 68° F, Seas calm
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: trash, shell
Port Discharge, Aft: wood, trash
Stbd Discharge, Fore: Ø Mid: Shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Ø

Comments: Material: sand and shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/19/96

Load # 160 Times: Start 0605 End 0832 Dump 0931
Location(lat/long) -2 to +20 Tide L~0400 Flood
Weather Seas Calm, Wind SSE 10kts, 63°, Partly Cloudy
H_2O Surf Temp 64° Time 0746 Below Mid-Depth 65° Time 0745 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: tunicates Deflector: OC
Stbd Draghead: Ø Deflector: OC
Port Discharge, Fore: Ø Mid: Shell
Port Discharge, Aft: horseshoe crab
Stbd Discharge, Fore: Ø Mid: Shell, flounder
Stbd Discharge, Aft: wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: Shell

Comments: Material: sand and shell
Agitated 0510-0605 due to low tide.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/19/96

Load # 161 Times: Start 1206 End 1440 Dump 1535
Location(lat/long) -2 to +20 Tide Hi
Weather mostly cloudy, Seas 1' swell, Wind SW 10 Kts, 76°F
H_2O Surf Temp 65 Time 1215 Below Mid-Depth 65 Time 1215 C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft:
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
FA	2	1040	at pumpout
++	1	1140	transit
++	2	1307	N side of cut

Observer(s) On Duty: Stephenson/Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/19/96

Load # 162 **Times: Start** 2009 **End** 2200 **Dump** 2255
Location(lat/long) Sta -2 to +20 **Tide** Low-Flood
Weather clear, winds SE 15 Knots, Seas 1-2
H_2O Surf. Temp____ **Time**____ **Below Mid-Depth**____ **Time**____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ **No** ✓

Port Draghead: 0 **Deflector:** OK
Stbd Draghead: 0 **Deflector:** OK
Port Discharge, Fore: 0 **Mid:** 0
Port Discharge, Aft: wood
Stbd Discharge, Fore: 0 **Mid:** 0
Stbd Discharge, Aft: partial shark parts
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port:____ **Stbd:**____

Comments: Agitating 1755 - 2000

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/20/96

Load # 163 **Times: Start** 0111 **End** 0246 **Dump** 0317

Location(lat/long) -2 to +20 **Tide** 1~600 Ebb

Weather Partly cloudy, Seas 2-3' swell, wind Sly 10-15kts, 67°F

H_2O Surf Temp_____ **Time**_____ **Below Mid-Depth**_____ **Time**_____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ **No** X

Port Draghead: Ø **Deflector:** OK

Stbd Draghead: Ø **Deflector:** OK

Port Discharge, Fore: Ø **Mid:** Shell

Port Discharge, Aft: horseshoe crab, Shell, wood

Stbd Discharge, Fore: Ø **Mid:** Shell

Stbd Discharge, Aft: horseshoe crab, shell, wood

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: Material: Sand and shell

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/20/96

Load # 164 Times: Start 0852 End 1132 Dump 1226
Location(lat/long) -2 to +20 Tide Low-Flood
Weather clear, Seas 2-3', Wind W/y 10 Kts, 65°F
H_2O Surf Temp 64°F Time 0900 Below Mid-Depth 64' Time 0900 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: bonnethead shark
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Sharkhead (Lemon Shark) Stbd: Shell

Comments: Material: sand and shell
Agitation 0621-0852

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/20/96

Load # 165 **Times: Start** 1453 **End** 1636 **Dump** 1736

Location(lat/long) -2 to +20 **Tide** Low

Weather clear, winds SE 10-15 knots, seas 1-2'

H_2O Surf.Temp____ **Time**____ **Below Mid-Depth**____ **Time**____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ **No** V

Port Draghead: 0 **Deflector:** OK

Stbd Draghead: 0 **Deflector:** OK

Port Discharge, Fore: 0 **Mid:** 0

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 **Mid:** 0

Stbd Discharge, Aft: wood

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 **Stbd:** 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	3	1600	cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/2X/96

Load # 166 Times: Start 2139 End 2352 Dump 0051
Location(lat/long) STG -2 TO +20 Tide 2.1 Flood
Weather clear, winds SE 15 Knots, seas 2-4
H_2O Surf Temp 64 Time 1958 Below Mid-Depth 64 Time 1958 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: cable, wood Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: fish parts Mid: shell
Port Discharge, Aft: wood
Stbd Discharge, Fore: shell Mid: shell
Stbd Discharge, Aft: Ø
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: cloth Stbd: Ø

Comments: Agitation 1956-2139
most load dug with port arm.
Repairs being made on the starboard side.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman/Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/21/96

Load # 167 Times: Start 0258 End 0525 Dump 0620 / 0752
Location(lat/long) -2 to +20 Tide Ebb
Weather Clear, Seas 1-2, Wind SE 5 Kts, 66°F
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: NA Deflector: NA
Port Discharge, Fore: Shell Mid: Keyhole urchin
Port Discharge, Aft: Shell, trash, wood
Stbd Discharge, Fore: NA Mid: NA
Stbd Discharge, Aft: NA
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Ø Stbd: NA

Comments: Material: sand and shell
* Dig with port arm only

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 04/21/96

Load # 168 Times: Start 0843 End 1207 Dump 1303
Location(lat/long) STA -2 TO +200 Tide H 1139 (FLOOD)
Weather clear, light airs, seas swell 4
H_2O Surf Temp 69°F Time 1008 Below Mid-Depth 65° Time 1008 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No U

Port Draghead: O Deflector: O/C
Stbd Draghead: O Deflector: OK
Port Discharge, Fore: O Mid: Plastic
Port Discharge, Aft: wood
Stbd Discharge, Fore: O Mid: O
Stbd Discharge, Aft: Trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: O Stbd: O

Comments: 0843 (AGITATING) - STBD HEAD ONLY
0905 " PORT HEAD W/ STBD.
0920 " STBD HEAD ONLY
1015 HOPPER " " "
1030 " PORT HEAD W/ STBD (BOTH)

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ft	1	1335	AT PUMP OUT
Ft	3	1500	BACK TO CUT

Observer(s) On Duty: ERIC WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/21/96

Load # 169 Times: Start 1534 End 1735 Dump 1837 est
Location(lat/long) STA -2 TO +20 Tide Low
Weather clear, winds SE 5 knots, seas 4, Swell
H_2O Surf Temp 68 Time 1640 Below Mid-Depth 68 Time 1640 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: Plastic
Port Discharge, Aft: wood
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: C
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: C Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/21/96

Load # 170 Times: Start 2113 End 2320 Dump 0022-0159
Location(lat/long) Sta -2 to +20 Tide 2.8 F/ood
Weather clear, winds SE 10-15knots, seas 4 swell
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ND Deflector: ND
Stbd Draghead: CLEAN Deflector: CLEAN
Port Discharge, Fore: CLEAN Mid: CLEAN
Port Discharge, Aft: (1) SHARK HEAD, JAWS, (2) SKATES, NOOO
Stbd Discharge, Fore: CLEAN Mid: CLEAN
Stbd Discharge, Aft: FIBERGLASS
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port:____ Stbd:____

Comments: 2058 Agitating
2113

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 04/22/96

Load # 171 Times: Start 0258 End 0501 Dump 0602-0734
Location(lat/long) STATION 2+00 - 20+00 Tide H2356 (EBB)
Weather SKY+CLEAR; WIND-SSE 15; SEAS 2-4, @ 0300
H_2O Surf. Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes_____ No X

Port Draghead: CLEAN Deflector: CLEAN
Stbd Draghead: CLEAN Deflector: CLEAN
Port Discharge, Fore: CLEAN Mid: CLEAN
Port Discharge, Aft: HORSESHOE CRAB (DEAD), KNOBBED WHELK (1)
Stbd Discharge, Fore: CLEAN Mid: CLEAN
Stbd Discharge, Aft: FIBERGLASS
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port:_____ Stbd:_____

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: DANA ROSS

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/22/96

Load # 172 Times: Start 1036 End 1241 Dump 1348

Location(lat/long) STATIONS 2+00 - 20+00 Tide H 1219 (FLOOD)

Weather SKY - CLEAR, WIND SE 5 KNOTS, SEAS SMALL 2-3

H_2O Surf Temp 69° Time 0815 Below Mid-Depth 67° Time 0815 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: C Deflector: OK

Stbd Draghead: C Deflector: OK

Port Discharge, Fore: C Mid: C

Port Discharge, Aft: Butterfly Rot, wood

Stbd Discharge, Fore: wood Mid: C

Stbd Discharge, Aft: wood, trash

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: C Stbd: TRASH

Comments: 0827 AGITATING (P & S HEADS)
0920 " (P ONLY ")
0930 " (P & S, ")

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
—			

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/22/96

Load # 173 Times: Start 1615 End 1832 Dump 2005
Location(lat/long) sta -2 to +20 Tide 1.3 Ebb
Weather clear, winds SE 10 knots, seas 3 swell
H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: cable Deflector OK
Port Discharge, Fore: 0 Mid: Fiber glass
Port Discharge, Aft: Butterfly Ray
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/22/96

Load # 174 Times: Start 2227 End 2343 Dump 0057/0314
Location(lat/long) STA -2 to +20 Tide 3.2 F/ood
Weather clear, winds SE 15/5 mots, seas SSW 6'
H_2O Surf Temp 65 Time 2230 Below Mid-Depth 66 Time 2230 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: CLEAN! Mid: 0
Port Discharge, Aft: FIBERGLASS
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4 / 23 / 96

Load # 175 Times: Start 0413 End 0540 Dump 0655 - 0852
Location(lat/long) STATIONS -2 - 20 Tide #0037 (EBB)
Weather WINDS SE 18 ; SEAS 3-4' ; SKIES CLEAR ; 70°F
H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes_____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: FIBERGLASS
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: CLOTH, BUTTERFLY RAY
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/23/96

Load # 176 Times: Start 0951 End 1205 Dump 1524
Location(lat/long) STATIONS -2+00 - 20+00 Tide H1302 (FLOOD)
Weather WINDS SE 2-3; SEAS 2-3' SWELL; SKY PTLY CLDY, 72°F
H_2O Surf.Temp 67° Time 0955 Below Mid-Depth 67° Time 0953 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: METAL
Port Discharge, Aft: TRASH
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: TRASH, HORSESHOE CRAB
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	8	0925	RETURN TO DG SITE
Tt	4	1016	S. OF CHANNEL
Tt	3	1019	E END OF CHANNEL

Observer(s) On Duty: D. ROSS / WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/23/96

Load # 177 Times: Start 1805 End 1957 Dump 2145 - 2357
Location(lat/long) STG -2TU T20 Tide .5 Ebb
Weather partly cloudy, winds S 15 knots, seas 3-5'
H_2O Surf Temp 71 Time 1927 Below Mid-Depth 71 Time 1927 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: Rope Deflector: OK
Stbd Draghead: wood Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Horseshoe crab
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Eggs/c
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: Stbd:

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT		1800	STG buoy

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/24/96

Load # 178 Times: Start 0044 End 0301 Dump 0400-0555
Location(lat/long) STATIONS -2:00 - 20:00 Tide H0119 (FLOOD & EBB)
Weather WIND - SE 5; SEAS - 3' SWELL, SKY-CLEAR; 68°F
H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes_____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: WOOD, PLASTIC BAG, BRASS GASKET,
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: SHARK HEAD ; PLASTIC CUP
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/24/96

Load # 179 Times: Start 0646 End 0937 Dump 1136
Location(lat/long) STATIONS -2+00 - +20+00 Tide L0753
Weather WIND WNW 15 ; SEAS 1-2' SWELL ; SKY - CLOUDY ; 46°F @ 0500
H_2O Surf Temp 67° Time 0644 Below Mid-Depth 66° Time 0648 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: PLASTIC (HARD), SS SNAP LOCK
Stbd Discharge, Fore: 0 Mid: METAL MESH 6"x6"
Stbd Discharge, Aft: ROPE W/ SHACKLE & HOOK
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: PLASTIC (HARD) Stbd: 0

Comments: 0738 - 0800 NO DIGGING (GPS DOWN - WATER XFER)
0800 - [illegible] RESUME DIGGING

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	9	0752	@ #5 8 ADULTS / JUVENILE

Observer(s) On Duty: ROSS, WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/24/96

Load # 180 Times: Start 1402 End 1549 Dump 1708
Location(lat/long) sta -2 to +20 Tide 3.8 Ebb
Weather Clear, winds N 15-20 Knots, seas 5'
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: wrecks
Stbd Discharge, Fore: 0 Mid: Trash
Stbd Discharge, Aft: Trash
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	3	1434	Southside.
TT	6	1445	Northside

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/24/96

Load # 181 Times: Start 2000 End 2147 Dump 2242 0056
Location(lat/long) STG-2 TO 120 Tide I. Ebb
Weather Clear, Winds NE 10-15knots, Seas 5'
H_2O Surf Temp 67 Time 2220 Below Mid-Depth 67 Time 2220 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: Butterfly Rays, wood
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: whole wood
Port Overflow: NA
Stbd Overflow: NA
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

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15
2 of 6

Date: 4/25/96

Load # 182 Times: Start 0149 End 0400 Dump 0505/0645
Location(lat/long) STATIONS -2+00 - +20+00 Tide H 0206
Weather WIND NE10; SEAS 2-3 SWELL; SKY - CLEAR; 66° F
H_2O Surf. Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: FIBERGLASS, WOOD, OYSTER SHELLS
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/25/96

Load # 183 Times: Start 0950 End 1012 Dump 4126
Location(lat/long) STATIONS -2+00 - +20+00 Tide 0845 EBB/FLOOD
Weather WIND ENE 12; SEAS 2-4 SWELL; SKY - CLEAR, 70°F
H_2O Surf Temp 67° Time 0749 Below Mid-Depth 66° Time 0753 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: FIBERGLASS
Port Discharge, Aft: FIBERGLASS, BUTTERFLY RAY, SHARK HEAD (SANDBAR?) HORSESHOE CRAB
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: FIBERGLASS, VERTEBRAE DISC (1/2) ? (WHALE SHARK)
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: RAY Stbd: 0

Comments: PORT DISCHARGE AFT BLUE CRAB (FEMALE FOAMING), RUBBER, WOOD

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1406	Transit back to cut

Observer(s) On Duty: D. Ross / Westerman

~~ENDANGERED~~ SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 4/25/96

~~Agitation~~

Load # 184 Times: Start 1432 End 1655 Dump 1810

Location(lat/long) Sta -2 to +20 Tide 3.1 Flood

Weather mostly clear, winds SE 10-15 knots, seas 2-4

H_2O Surf Temp 68 Time 1600 Below Mid-Depth 68 Time 1600 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: Assorted shark remains

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: Assorted shark remains, Trash

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	8	1540	south of cut

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 4/5/96

Agitation

Load # 185 Times: Start 2044 End 2258 Dump 2400-0224

Location(lat/long) sta -2 to +20 Tide .9 Ebb

Weather Mostly clear, winds SE 10-15 knots, seas 2-4

H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes _____ No V

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: Numerous shark remains

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: Numerous shark remains

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/26/96

Load # 186 Times: Start 0311 End 0522 Dump 0625-0822
Location(lat/long) STATIONS -2+00 - +20+00 Tide HO257 (EBB)
Weather WIND SW 10; SEA 2-3 SWELL; SKY CLEAR, 68°F @ 0500
H_2O Surf.Temp_____Time_____ Below Mid-Depth_____Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: O Deflector: O/C
Stbd Draghead: FISHING TACKLE Deflector: OK
Port Discharge, Fore: O Mid: O
Port Discharge, Aft: SHELL, SHARK FRAGMENTS
Stbd Discharge, Fore: O Mid: O
Stbd Discharge, Aft: WOOD, SHARK FRAGMENTS
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: O Stbd: O

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 4/26/96

Load # 187 Times: Start 0928 End 1134 Dump 1237
Location(lat/long) STATIONS: (-)2+00 – +20+00 Tide LO953 (EBB/FLOOD)
Weather WIND SW 10; SEAS 2-4' SWELL; SKY CLEAR; 70°F @ 0840
H_2O Surf.Temp 68 Time 0940 Below Mid-Depth 68 Time 0945 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: C Deflector: OK
Stbd Draghead: C Deflector: OK
Port Discharge, Fore: C Mid: C
Port Discharge, Aft: Shark remains
Stbd Discharge, Fore: C Mid: C
Stbd Discharge, Aft: shark remains
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: Trash Stbd: C

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0900	½ WAY BT DUMP & DIG SITE OFF STBD BOW
Tt	7	1025	STBD BOW 100 YDS. OUTGOING IN CUT
Tt	3	1043	INSIDE #5 STBD STERN
Tt	3	1056	100 YDS. OFF BOW MID CUT
Tt	2	1437	PUMP OUT

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE Jacksonville District - Winter 199

Date: 4/26/96

Load # 188 Times: Start 1557 End 1805 Dump 1803

Location(lat/long) sta -2 to +20 Tide 3.3 Ebbed

Weather cloudy, wind ~~NSW~~ 20 knots, seas 4 swell

H_2O Surf. Temp 68 Time 1757 Below Mid-Depth 68 Time 1757 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: shark caudal fin

Port Discharge, Aft: shark remains

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: wood

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	4	1845	to disposal area.

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 4/26/96

Load # Agitation 184 Times: Start 2140 End 2357 Dump 0105-0235

Location(lat/long) STA -2 TO +20 Tide .3 LOW

Weather clear, winds W-SW 5 knots, seas 1-2'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: BUTTERFLY RAY, SHARK HEADS, FIBERGLASS, WOOD

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: SHARK HEADS, HORSESHOE CRAB

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE Jacksonville District - Winter 1996

Date: 4/27/96

[redacted]

Load # 90 Times: Start 0327 End 0553 Dump 0652 - 0840

Location(lat/long) STATIONS -2400 - +20-00 Tide 0353 EBB/FLOOD

Weather WIND - W 10; SEAS 2-4 SWELL; SKY CLEAR; 67°F @ 0500

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: DANFORTH ANCHOR Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: SHELLS, OYSTER, KNOBBED WELK, WORM ROCK

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: SHELL

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	0745	BY MOORING / BEACH

Observer(s) On Duty: ____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 4/27/96

~~Applicator~~

Load # 191 Times: Start 0929 End 1231 Dump 1328

Location(lat/long) sta -2 TO +20 Tide

Weather WIND LT BREEZE, SEAS 1-2 SWELL; SKY CLEAR 77°F @ 0930

H_2O Surf. Temp 69 Time 0930 Below Mid-Depth 69 Time 0936 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: O Deflector: OK

Stbd Draghead: O Deflector: OK

Port Discharge, Fore: O Mid: O

Port Discharge, Aft: O

Stbd Discharge, Fore: O Mid: shark remains

Stbd Discharge, Aft: shark remains

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Repr Stbd: O

Comments:

1513 mate sighted small loggerhead sea turtle coming up for air. Turtle dove right away. 29° 50.91, N 81° 13.93 W. Sighted near the pump out station.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	20(+)	0938	STBD JUST N. OF CT DURING IN DIG
Tt	2	1006	B/T #5 AND BEACH
Tt	3	1300	TO DUMP

Observer(s) On Duty: D. Ross / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 4/27/96

[redacted]

Load # 192 Times: Start 1546 End 1843 Dump 1938

Location(lat/long) stc -2 to +20 Tide 3.4 Ebb

Weather clear, winds WSW 10 Knots, seas calm

H_2O Surf. Temp 69 Time 1800 Below Mid-Depth 69 Time 1800 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: Horseshoe crabs

Stbd Discharge, Fore: 0 Mid: chain link

Stbd Discharge, Aft: wood, trash

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments: 2115 dredge goes to Fernandina for fuel and water.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	4	1545	south of cut

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 4/28/96

~~Agitation~~

Load # 193 Times: Start 2315 End 0124 Dump 0214-0333

Location(lat/long) sta -2 to +20 Tide 1.2 Ebb

Weather Partly cloudy, winds SE 10 knots, seas 1-3'

H_2O Surf.Temp 68 Time 1830 Below Mid-Depth 64 Time 1830 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: WOOD, FIBERGLASS

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: WOOD, PLASTIC (HARD)

Port Overflow: NA

Stbd Overflow: NA

Overboard Discharge, Port: 0 Stbd: 0

Comments: 1100 dredge departs from Fernandina for dredge site.

Starboard T.E.D. chained up, brackets broke, welded back together

Pump out moved just north of the pier

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	16	1845	Pump Out

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 4/29/96

~~Agitation~~

Load # 194 Times: Start 0413 End 0637 Dump 0744-0858

Location(lat/long) STATION -2+00 - +20+00 Tide H0546 (FLOOD)

Weather WIND SE 15; SEA 3-4'; SKY CLEAR; 70°F @ 0500

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: NEW STEEL DEFLECTOR BROKEN

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: FIBERGLASS & OYSTER SHELLS

Stbd Discharge, Fore: 0 Mid: PLASTIC (SOFT)

Stbd Discharge, Aft: HORSESHOE CRAB

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments: STBD. DEFL. - TEE BRACKETS REPAIRED ON 4/28 BROKEN AT WELDS. MATE & CAPTAIN NOTIFIED. (DNR)

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	4	0631	PORT BOW 50 MID CHANNEL-OUTGOING
Tt	3	0842	B/T PUMP OUT STATION & BEACH S.

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/29/96

~~Agitation~~
Load # 198 Times: Start 0953 End 1201 Dump 1303-1420 #'s

Location(lat/long) STATIONS -2+00 — 12+00 Tide 1206 (EBB)

Weather WIND SE 17-20; SEAS 4-6'; SKY PARTLY CLOUDY 78°F @ 1100

H_2O Surf Temp 70° Time 1030 Below Mid-Depth 70° Time 1035 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: SEE NOTE

Port Discharge, Fore: 0 Mid: SOFT PLASTIC

Port Discharge, Aft: BUTTERFLY RAY

Stbd Discharge, Fore: 0 Mid: FIBERGLASS

Stbd Discharge, Aft: SHELL

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: RAY (UNK) Stbd: 0

Comments: STBD DEFL TEMPORALILY REPAIRED W/ CHAINS AT 0900
BEGAN REPAIR TO STBD DEFL. AT APPROX 1206

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1250	400 YDS. EAST OF DISCHARGE SITE
Tt	1		400 YDS. EAST OF DISCHARGE SITE

Observer(s) On Duty: A Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 4/29/96

Agitation
Load # 194 Times: Sta. 1512 SEE NOTE End 1736 Dump 2026-2153 4/30 NA
Location(lat/long) STATIONS -2+00 - +20+00 Tide H 1822
Weather WIND S 20-25, SEAS 4-5 FT.; SKY PARTLY CLOUDY
H_2O Surf.Temp 68° Time 1740 Below Mid-Depth 69° Time 1745 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: 0 Deflector: SEE NOTE
Stbd Draghead: 0 Deflector: SEE NOTE
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: Stbd:

Comments: STARTED PORT DRAGHEAD AT 1512 TO 1550. STARBOARD DRAGHEAD STILL UNDER REPAIR. STBD DRAGHEAD ONLY 1551 - 1619 WHILE REPAIRS TO PORT DRAGHEAD BEING DONE. 1815 SEAS TOO ROUGH TO DUMP HEADING IN TO ANCHOR UNTIL CALMER. ANCHORED 1851

LAY ANCHORAGE AT 1900 4/30

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	6	4/30 2020	800 YDS EAST OF DISCHARGE SITE

Observer(s) On Duty: Brett Johnson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 4/30/96

Load # 197 (Navigation) Times: Start 2258 End 0049 Dump 0144 - 0257 5/1

Location(lat/long) STATION -2+00 - +20+00 Tide 0131 LOW (EBB)

Weather WIND NW 10; SEAS 1-2' W/ 4-7' SWELL; SKY CLEAR; 68°F @ 2300

H_2O Surf Temp 68° Time 0900 Below Mid-Depth 68°F Time 0900 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: BUTTERFLY RAY, SURFBOARD FIN Mid: 0

Port Discharge, Aft: BUTTERFLY RAY, SURFBOARD FIN, HORSESHOE CRAB PARTS

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: HORSESHOE CRAB PARTS, ALUMINUM CAN

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/1/96

~~Addendum~~ 5/2

Load # 198 Times: Start 0344 End 0545 Dump 0530 LOAD DUMPED

Location(lat/long) ~~STATIONS~~ -2400 - +2000 Tide #07ZB (FLOOD)

Weather WIND N 20; SEA 4-5'; SKY-CLEAR; 62°F @ 0500

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: ROPE, FIBERGLASS

Port Discharge, Aft: SNATCH BLOCK & SHACKLE, KEYHOLE UNDER

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: SHELL

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments: 0642 - HOOKUP ABORTED - R/T TO ANCHORAGE

0850 - AT ANCHOR IN ST. AUGUSTINE INLET

1100 - WIND

5/1 @ 0100 PULLED ANCHOR AND HEADED FOR DUMP OUT

0210 HOOKUP ABORTED - HOLE IN STARBOARD BOW

0230 LOAD DUMPED ABOUT 1/4 MILE E OF HOOKUP

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District • Winter 1996

Date: 5 Q 196

Agitation

Load # 199 Times: Start 1104 End 1430 Dump 1547 - 1635

Location(lat/long) STATIONS -9+40 - +31+00 Tide 201PM (FLOOD)

Weather WIND - CALM; SEAS - CALM; SKY - CLEAR; TEMP 82°F @ 1100

H_2O Surf. Temp 1335 Time 14 Below Mid-Depth 74° Time 1342 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: KEYHOLE URCHINS

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 Mid: CLOTH

Stbd Discharge, Aft: 0

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments: FY

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. ROSS, LINDA IOCCO

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/9/96

Load # 200 Times: Start 1718 End 1921 Dump 2012 - 2120
Location(lat/long) STATIONS -9 - +40 - +31+00 Tide 1974 (EBB)
Weather 3-5 FOOT SEAS; WIND FROM SE; PARTLY CLOUDY; CLEAR VISIBILITY; TEMP 80°F @ 1718
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: GARBAGE (TIN LID)
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	1909	50 YDS OFF PORT SIDE @ LOADING STATION

Observer(s) On Duty: L. IOCCO

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/9/96

Load # 201 Times: Start 2158 End 0033 Dump 0159-0309
Location(lat/long) STATIONS -9-+40 - +31+00 Tide 0245 (FLOOD)
Weather SEA -SE 2-4 FT; WIND - SE; PARTLY CLOUDY; CLEAR VISIBILITY; TEMP 74°F @ 230
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid:
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: SCRAP IRON
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. Iocco

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/10/96

Load # 292 Times: Start 0413 End 0427 Dump 0707/0809
Location(lat/long) STATIONS -9 - +40 - +31+00 Tide H 0824 (EBB)
Weather SEAS - SE 2-4 Ft; WIND - SE; CLOUDY SKIES; CLEAR VISIBILITY; Temp. 72@060
H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: SCRAP IRON Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: DANA ROSS

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/10/96

Load # 203 Times: Start 0904 End 1135 Dump 1236 - 1350
Location(lat/long) STATION -9+400 → +31+00 Tide LO915 FLOOD
Weather WIND SE 1; SEAS 2-4; SKY PARTLY CLDY; 72°F @ 0600
H_2O Surf.Temp 75° Time 0915 Below Mid-Depth 75° Time 0925 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: SHOE SOLE, HARD PLASTIC
Stbd Discharge, Fore: 0 Mid: CLOTH
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: DANA ROSS

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/10/96

Load # 0204 Times: Start 1440 End 1806 Dump 1845 - 1959
Location(lat/long) STATIONS -9+400 → +31+00 Tide H 1518 FLOOD $ EBB
Weather WIND SE 3; SEAS 2-4' SWELL; SKY - PTLY CLDY.; 79°F @ 1445
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: WIRE Mid: CLOTH
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments: DREDGING 1442 - 1510

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross, L. Tocco

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5 / 10 / 96

Load # 205 Times: Start 2040 End 2245 Dump 2337-0123
Location(lat/long) STATION -9-400 -3+00 Tide LOW @ 2135 (EBB→FLOOD)
Weather SEA - 2-4 FOOT SWELL (SE); WIND - SE (3); PARTLY CLOUDY; GOOD VISIB.; TEMP 78°F
H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: O Deflector: OK
Stbd Draghead: O Deflector: OK
Port Discharge, Fore: ALUMINUM CAN (PARTIAL) Mid: O
Port Discharge, Aft: WOOD BLOCK
Stbd Discharge, Fore: O Mid: O
Stbd Discharge, Aft: O
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: O Stbd: O

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. IOCCO

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/11/96

Load # 206 Times: Start 0210 End 0559 Dump 0645 - 0805
Location(lat/long) STATIONS -9+40 - +31+00 Tide HIGH @0349 (FLOOD - EBB)
Weather SEAS - 2-4' SE ; WIND - E (2), PARTLY CLOUDY; CLEAR VISIB.; TEMP@ 0530 - 72°F
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: SHARK PART
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: HORSESHOE CRAB
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. IOCCO, D. DOS

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/11/96

Load # 207 Times: Start 0844 End 1040 Dump 1155-1312
Location(lat/long) STATIONS -9+40 → +31+00 Tide L1012 (EBB)
Weather WIND E 4-6 ; SEAS 2-4 ; SKY PTLY CLDY; 72°F (2)
H_2O Surf Temp 75° Time 0845 Below Mid-Depth 75° Time 0858 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK ★(SEE NOTE)
Stbd Draghead: 0 Deflector: OK ★(")
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: BUTTERFLY RAY
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments: ★ NEW ANGLE IRON LEADING EDGE BEGINNING TO DETERIORATE (APPROX 50%) & EARLIER SCRAP METAL PICKED UP DURING DIGGING APPEARS TO BE FROM THIS DEGRADATION.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. ROSS

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/11/96

Load # 208 Times: Start 1400 End 1725 Dump 1843-2001

Location(lat/long) STATIONS -9 - +40 - +31+00 Tide H 1621 (FLOOD)

Weather WIND - SE (#10 SEAS 3-5'; SKY MOSTLY CLDY; 78°F

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: 0

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: D. Ross, L. Iocco

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/12/96

Load # 209 Times: Start 0253 End 0604 Dump 0641/0800
Location(lat/long) STATIONS -9-+40 - +31+00 Tide H:0436 (FL02D)
Weather WIND W-4-6 K; SEAS CALM; SKY CLEAR; TEMP 70°F @ 0600
H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: YELLOW PLASTIC MESH Deflector: OK
Port Discharge, Fore: SHARK PARTS * Mid: SHARK PART *
Port Discharge, Aft: SHARK HEAD + ENTRAILS *
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: PLASTIC CAR FLOOR MAT
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: SHARK PART *

Comments: * SHARK PARTS OBVIOUSLY PICKED UP AFTER BEING CUT UP & GUTTED — ONLY HEADS & ENTRAILS FOUND

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. IOCCO, D. ROSS

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5 / 12 / 96

Load # 210 Times: Start 0838 End 1044 Dump 1120 - 1243
Location(lat/long) STATIONS -9+40 > +31+00 Tide L 1108 (EBB)
Weather SKY - PARTLY CLOUDY, GOOD VISIBILITY; WIND - LIGHT FROM (W); SEA - 1-2' SWELLS; TEMP. 82°F @ 0
H_2O Surf. Temp 95° Time 0940 Below Mid-Depth 95° Time 0948 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: CLOTH Deflector: * SEE NOTE
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: MONO FISHING LINE
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: CARPET SCRAP

Comments:
* TED, - WELDED SUPPORT BRACKETS SHEARED ON OUTBOARD SIDE
- LEADING EDGE ANGLE IRON SHOWING MORE WEAR THAN BEFORE, ESD ON STARBOARD HEAD.
- CAPTAIN NOTIFIED AT 1100 HOURS.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/12/96

Load # 211 Times: Start 1330 End 1526 Dump 1603 - 1722
Location(lat/long) -9+40 → +31+00 Tide ~~H1780~~ (FLOOD)
Weather CLEAR SKIES, CLEAR VISIBILITY; 1-3' SWELL, WIND - E (7-10 KNOTS), TEMP 80°F @ 1800
H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ✓ No ✓

Port Draghead: 0 Deflector: * SEEN OUT
Stbd Draghead: 0 Deflector: 1
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments: TED - SAME AS ON LOAD #210

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	8	1335	INSIDE OF CUT / BOTTLENOSE DOLPHIN
Tt	3	1440	OUTSIDE & SOUTH OF CUT / " " " LOGGERHEAD TURTLE.
Cc	1	1500	SURFACED TWICE B/F DIVING

Observer(s) On Duty: D. Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/12/96

Load # 212 Times: Start 1800 End 2110 Dump 2151 - 2249
Location(lat/long) -9+40 — +31+00 Tide L 2340 (EBB)
Weather WIND - E @ 7-10 KNOTS; SEA - 1-3'; GOOD VISIBILITY, TEMP 76°F @ 2400
H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: 0
Stbd Draghead: 0 Deflector: 0
Port Discharge, Fore: STRIP OF CANVAS/BURLAP Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: SHELLS Mid: 0
Stbd Discharge, Aft: BUTTERFLY RAY
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments: AGITATION; LOAD PICKED UP USING STARBOARD DRAG; PORT DRAGHEAD DEFLECTOR WELDED ON BOTH SIDES ~1800-2015
· AT 2015, STBD DRAGHEAD LOWERED SO BOTH IN USE

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. Iocco

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/12/96

Load # 213 Times: Start 2329 End 0209 Dump 0255-0417
Location(lat/long) -9+40 -+31+00 Tide L2340, H0550 (FLOOD)
Weather WIND - N (CALM); SEAS - SE; CLEAR SKIES & VISIBILITY (1-3') TEMP 70°F@053
H_2O Surf Temp 15 Time 0357 Below Mid-Depth 75 Time 0004 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: 0
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. Jocco

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/13/96

Load # 214 Times: Start 0511 End 0735 Dump 0815-0931
Location(lat/long) -9+40 — +31+00 Tide H 0550 (FLOOD→EBB)
Weather Seas 1'-3' from SE, Skies clear & visibility good; TEMP 70°F
H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: ROPE
Stbd Draghead: 0 Deflector: OK
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: SCRAP IRON
Stbd Discharge, Aft: PLASTIC MAT
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. Iocco, C. Salas

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/13/1996

Load # 215 Times: Start 1012 End 1550 Dump 1626-1738
Location(lat/long) -9+40 → +3+00 Tide L 1200 (Ebb → Flood)
Weather Seas 1-3' w/chop - Visibility good - Clear skies - Seas from SE, Temp 80°F
H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: Piece of Coated Wire w/ Rop
Stbd Draghead: 0 Deflector: 0
Port Discharge, Fore: 0 Mid: 0
Port Discharge, Aft: 0
Stbd Discharge, Fore: 0 Mid: 0
Stbd Discharge, Aft: Scrap of Iron
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: 0 Stbd: 0

Comments: Second piece of iron fowid in Starboard Discharge, first fowid in load # 214. Both saved and shown to First Mate Pexter.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Sakas

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 5/13/96

~~Hopper~~

Load # 816 Times: Start 1817 End 2022 Dump 2100 - ~~2204~~

Location(lat/long) -9+40 → +31+00 Tide H 1820 (EBB)

Weather SKY - CLEAR; GOOD VISIBILITY; WIND - E @ 7-10 KNOTS; TEMP 76°F

H_2O Surf Temp 75° Time 1940 Below Mid-Depth 75° Time 1945 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: 0 *

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: 0 *

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments: * FEW WHELK/OYSTER SHELLS FOUND

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. Iocco

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/14/96

~~Application~~

Load # 217 Times: Start 0000 End 0350 Dump 0427-0543

Location(lat/long) -9 +40 → +31 +00 Tide LOOSE (EBB → FLOOD)

Weather CLEAR SKIES/VISIBILITY; 1-3' SEAS E; N WIND CALM; TEMP 70°F

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: OK

Stbd Draghead: 0 Deflector: OK

Port Discharge, Fore: 0 Mid: SCRAP IRON, KEYHOLE URCHIN

Port Discharge, Aft: WOOD (FIBERBOARD)

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: BUTTERFLY RAY

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: L. Jocco

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 05/14/96

Load # ~~Agitation~~ 218 Times: Start 0621 End 0838 Dump 0949-1048

Location(lat/long) -9+40 → +31+00 Tide H 0644 Flood → Ebb

Weather Winds NE ~20knots 3-5' Seas w/chop Partly cloudy w/ occassional showers

H_2O Surf Temp 72° F Time 1530 Below Mid-Depth 76°F Time 1530 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead: 0 Deflector: 0

Stbd Draghead: 0 Deflector: 0

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: 0

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	1	0700	Dump Site - Port Bow
T+	7	1135	Channel Entrance (from sea) - Starboard Bow
T+	1	1205	Anchorage - Port Bow

Observer(s) On Duty: C. Sakas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/17/96

~~Agitation~~

Load # 219 Times: Start 1615 End 2012 Dump 2059

Location(lat/long) North Shoal Tide 1934 high

Weather clear, winds E 10-12 Knots, seas 3-4

H_2O Surf. Temp 77° F Time 1600 Below Mid-Depth 77° F Time 1605 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: clear Deflector: clear/ok

Stbd Draghead: clear Deflector: clear/ok

Port Discharge, Fore: clear Mid: clear

Port Discharge, Aft: clear

Stbd Discharge, Fore: clear Mid: clear

Stbd Discharge, Aft: clear

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: clear Stbd: clear

Comments: dredged material was fine white sand with no debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman, C. Sakas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 8/18/96

~~Agitation~~

Load # 220 Times: Start 2225 End 0058 Dump 0240

Location(lat/long) North Shoal Tide 2114 high

Weather clear, E 10-12 knots, seas 3-4'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: clear Deflector: clear/ok

Stbd Draghead: clear Deflector: clear/ok

Port Discharge, Fore: clear Mid: clear

Port Discharge, Aft: clear

Stbd Discharge, Fore: clear Mid: clear

Stbd Discharge, Aft: clear

Port Overflow: clear N/A

Stbd Overflow: N/A

Overboard Discharge, Port: clear Stbd: clear

Comments: all fine white sand with no debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 05/18/1996

~~Agricultural~~

~~Load~~ # 221 Times: Start 0450 End 0956 Dump 1041-1149

Location(lat/long) -9+40 → -31+00 South Shoal Tide 0949 H (Flood to Ebb)

Weather Clear skies, Calm seas (w/2-3' swell on bar), Excellent visibility

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: 0 Deflector: 0

Stbd Draghead: 0 Deflector: 0

Port Discharge, Fore: 0 Mid: 0

Port Discharge, Aft: 0

Stbd Discharge, Fore: 0 Mid: 0

Stbd Discharge, Aft: 0

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: 0 Stbd: 0

Comments: Dredging clean sand w/sparse shells
Observed many live hermit crabs on surface of sand in hold

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	1	0635	N of St. Augustine sea buoy

Observer(s) On Duty: Cathy Sakas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 05/18/96

~~Agriculture~~

Load # 222 Times: Start 1230 End 1625 Dump 2021

Location(lat/long) -9+40 → -31+00 Tide 1551E (Ebb to Flood)

Weather overcast, winds E 10-12, seas 3-4

H_2O Surf.Temp 77° Time 1635 Below Mid-Depth 77° Time 1635 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: No debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	4	1610	Southside St. Augustine Inlet bar sea entrance

Observer(s) On Duty: C. Sakas, P. Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/19/96

~~Agriculture~~

Load # 223 Times: Start 0305 End 0220 Dump 0256

Location(lat/long) -9440 → 30 Tide

Weather overcast, winds E 10-12 kts, seas 3-4

H_2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: ok

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: 2 [redacted] Southern Stingray

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: horseshoe crab Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 05/19/96

~~Agitation~~

Load # 224 Times: Start 0517 End 0810 Dump 0849-0942

Location(lat/long) -9+40 → -31+00' Tide 1030 HIGH

Weather ~~partly~~ cloudy skies; T-3' SEAS; SE 15 KNOTS WINDS; clear visibility

H_2O Surf. Temp 74° Time 0930 Below Mid-Depth 74° Time 0935 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ∅ Deflector: OK

Stbd Draghead: ∅ Deflector: OK

Port Discharge, Fore: ∅ Mid: ∅

Port Discharge, Aft: horshoe crab part

Stbd Discharge, Fore: ∅ Mid: ∅

Stbd Discharge, Aft: ∅

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: horshoe crab Stbd: ∅

Comments: All FINE WHITE SAND NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. Sakas, Brett Johnson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/19/96

~~Agitation~~

Load # 225 Times: Start 1158 End 1454 Dump 1529-1640

Location(lat/long) -9+40 → +31+00 Tide 1630 LOW

Weather HAZY; SE 5 KNOTS; SEAS 1-2' 80° @ 1711

H_2O Surf.Temp 75° Time 1600 Below Mid-Depth 75° Time 1608 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector:

Stbd Draghead: Ø Deflector:

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: BUTTERFLY RAY

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL ALL FINE WHITE SAND - NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/20/96

~~Agitation~~

Load # 226 Times: Start 1720 End 2329 Dump 2057

Location(lat/long) -9+40 > +31+00 Tide 2233 H

Weather overcast, winds E 15-20 kts, seas 2-3

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok/clear

Stbd Draghead: Ø Deflector: ok/clear

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow:

Overboard Discharge, Port: Ø Stbd: Ø

Comments: No debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T7	4-6	1800	West end of cut buoy #( )

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/19/94

~~Agricultural~~

Load # 227 Times: Start 2329 End 0227 Dump 0302

Location(lat/long) -9+40 → +31+00 Tide 0454 L

Weather overcast, winds E 10-15 Kts, seas 1-2

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok/clear

Stbd Draghead: Ø Deflector: ok/clear

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø engine part Stbd: Ø

Comments: No debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/20/94

~~Agitation~~

Load # 228 Times: Start 0510 End 0909 Dump 0949 – 1039

Location(lat/long) - 9 +40 → +31 +00 Tide 1055 HIGH

Weather SKIES clear, WINDS W 4-6 KNOTS; SEAS 1-2 87° @ 1010

H_2O Surf. Temp 75° Time 1000 Below Mid-Depth 74° Time 1005 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK/ clear

Stbd Draghead: Ø Deflector: OK/ clear

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL FINE WHITE SAND, NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 5/20/94

Load # ~~Agitation~~ 229 Times: Start 1153 End 1450 Dump 1527-1636

Location(lat/long) -9 + 40 → +31+00 Tide 1654 low

Weather overcast ; WINDS SW 11-14 KNOTS ; SEAS 1-2' 86° @ 1601

H_2O Surf.Temp 76° Time 1542 Below Mid-Depth 75° Time 1547 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok/clear

Stbd Draghead: Ø Deflector: ok/clear

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: SEA PORK

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: fiberglass Stbd: Ø

Comments: WHITE SAND - NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District • Winter 1996

Date: 5/20/94

~~Agitation~~

Load # 230 Times: Start 0154 End 0247 Dump 0325

Location(lat/long) -9+40 - +31+00 Tide 2311 HIGH

Weather overcast, SE 10-15 Kts, seas 1-2

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: Ø

Stbd Draghead: Ø Deflector: Ø

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: gauge

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: R Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/21/96

~~Agitation~~

Load # 231 **Times: Start** 0532 **End** 0852 **Dump** 0933 - 1021

Location(lat/long) -9 +40 → -31 + 00 **Tide** 545 low 11?? high

Weather Mostly Cloudy; WINDS SE 1-3 KNOTS; SEAS 1-2'; 80° @ 1130

H_2O Surf. Temp 75° **Time** 0947 **Below Mid-Depth** 75° **Time** 0953 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: Ø **Deflector:** OK/clear

Stbd Draghead: Ø **Deflector:** OK/clear

Port Discharge, Fore: Ø **Mid:** Ø

Port Discharge, Aft: HORSESHOE CRABS

Stbd Discharge, Fore: Ø **Mid:** Ø

Stbd Discharge, Aft: HORSESHOE CRABS

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: SOUTHERN STINGRAY **Stbd:** Ø

Comments: DREDGE MATERIAL FINE WHITE SAND - NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5 / 21 / 96

~~Agricola~~

Load # 232 Times: Start 1234 End 1631 Dump _____

Location(lat/long) -9 + 40 → -31 + 00 Tide F 734 low

Weather OVERCAST WITH SLIGHT RAIN ; WINDS 5 4-6 KNOTS; SEAS 1-2'

H_2O Surf Temp 75° Time 1740 Below Mid-Depth 75° Time 1747 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: clear / ok

Stbd Draghead: Ø Deflector: clear / ok

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL PRODUCED FINE WHITE SAND - NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 5 / 21 / 94

~~Agitation~~

Load # 233 Times: Start 1840 End 2300 Dump 2330

Location(lat/long) - 9 + 40 → + 31 + 00 Tide 2350 High

Weather partly cloudy, winds ESE 10 Knots, seas 1-2

H_2O Surf.Temp / Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: clear/ok

Stbd Draghead: Ø Deflector: Clear/ok

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Southern ray

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/22/96

~~Agitation~~

Load # 0234 Times: Start 0016 End 0410 Dump 0448

Location(lat/long) -9 to 40 → +31 Tide H → L

Weather clear, winds variable, seas light chop

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok

Stbd Draghead: Ø Deflector: ok

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: ~~Ø~~ N/A

Stbd Overflow: ~~Ø~~ N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: fine white sand with no shell or debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/22/96

~~Agricultural~~

Load # 235 Times: Start 0630 End 0934 Dump 1016-1114

Location(lat/long) -9+40 → 31+00 Tide 0614 L 1217 HIGH

Weather SKIES: PARTLY CLOUDY - CLEAR VISIBILITY; WINDS N 4-6 KNOTS; SEAS 2-3' 80° @ 1130

H_2O Surf Temp 75° Time 1030 Below Mid-Depth 75° Time 1035 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK/clear

Stbd Draghead: ϕ Deflector: OK/clear

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: SOUTHERN STINGRAY

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL FINE WHITE SAND - FEW SMALL SHELLS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/22/96

~~Agitation~~

Load # 234 Times: Start 1235 End 1617 Dump 1650

Location(lat/long) -9 +40 & +30 +00 Tide HIGH 1217 LOW 1818

Weather SKIES; PARTLY CLOUDY - CLEAR VISIBILITY; WINDS N 1-3 KNOTS; SEAS 3-5' 82° (55?)

H_2O Surf. Temp 75° Time 1635 Below Mid-Depth 75' Time 1640 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK/clear

Stbd Draghead: Ø Deflector: OK/clear

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL FINE WHITE SAND WITH SOME SMALL SHELLS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	8	1534	NORTH OF MARKER # 2

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/02/96

~~Agricultural~~

Load # 237 Times: Start 1845 End 0212 Dump 2254

Location(lat/long) -9+40 → 30+00 Tide

Weather overcast/haze, winds variable, seas light chop

H_2O Surf. Temp Time Below Mid-Depth Time C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: Ø

Stbd Draghead: Ø Deflector: Ø

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: fine silty white sand with no debris.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/23/96

~~Agitation~~

Load # 238 Times: Start 0050 End 0416 Dump 0455

Location(lat/long) -9 + 40 → 30+00 Tide 0658 Low

Weather partly cloudy, wind SE 0-5, seas calm

H_2O Surf. Temp / Time / Below Mid-Depth / Time / C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: ø Deflector: ok

Stbd Draghead: ø Deflector: ok

Port Discharge, Fore: ø Mid: ø

Port Discharge, Aft: whelk, wood

Stbd Discharge, Fore: ø Mid: ø

Stbd Discharge, Aft: ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ø Stbd: ø

Comments: clean silty sand

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/23/96

~~Agitation~~

Load # 239 Times: Start 0644 End 0926 Dump 1010 - 1105

Location(lat/long) -9+40 +30+00 Tide 1300 LOW

Weather CLEAR SKIES; WINDS SE 1-3 KNOTS; SEAS 1-2'

H_2O Surf. Temp 76° Time 1020 Below Mid-Depth 75° Time 1025 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: ok/clear

Stbd Draghead: ϕ Deflector: ok/clear

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: BUTTERFLY RAY

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL FINE WHITE SAND WITH SPARSE SMALL SHELLS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 5/23/94

~~Agitation~~

Load # 240 Times: Start 1321 End 1652 Dump 1730

Location(lat/long) -9 +40 > +30 +00 Tide 1906 HIGH

Weather SKIES CLEAR; WINDS SE 7-10 KNOTS; SEAS 1-3'; TEMP 90° @ 1710

H_2O Surf. Temp 76° Time 1730 Below Mid-Depth 96° Time 1735 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK/clear

Stbd Draghead: ϕ Deflector: OK/clear

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: BUTTERFLY RAY

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL CLEAN, WHITE FINE SAND

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/23/96

~~Agricultural~~

Load # 241 Times: Start 1908 End 2142 Dump 2221

Location(lat/long) -9+40 > +30+00 Tide High 0000

Weather partly cloudy, winds SE 10 knots, seas calm

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: 1 horseshoe crab

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 9 5 / 24 / 96

~~Agitation~~

Load # 242 Times: Start 0120 End 0434 Dump 0508

Location(lat/long) -9+40 → +30+00 Tide 0112 H

Weather partly cloudy, winds variable, seas calm

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: ok

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: horse shoe crab

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: almost no debris — fine white sand

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/24/96

~~Agitation~~

Load # 243 Times: Start 0654 End 0949 Dump 1027-1128

Location(lat/long) -9 + 40 → + 30 + 00 Tide 0744 LOW 1346 HIGH

Weather SKIES CLEAR; WINDS E 1-3 KNOTS; SEAS 1-2' 84° @ 1055

H_2O Surf Temp 77° Time 1025 Below Mid-Depth 77° Time 1030 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK/ CLEAR

Stbd Draghead: ϕ Deflector: OK/ CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: ALL MATERIAL CLEAN, FINE WHITE SAND, NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	8	1055	EAST OF STERN WHILE AT PUMP OUT SITE

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/24/96

~~Agricultural~~

Load # 244 Times: Start 1408 End 1744 Dump 1825

Location(lat/long) -9 +40 > +30 +00 Tide 1346 HIGH 2001 LOW

Weather SKIES CLEAR ; WINDS SE 0-5 ; SEAS calm

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: No debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON, Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/24/96

~~Agricultural~~

Load # 245 Times: Start 2006 End 2254 Dump 2335

Location(lat/long) -9+40 → 30+00 Tide 0158 H

Weather clear, winds variable, seas calm

H_2O Surf. Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: 1 southern stingray

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: PETER WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/25/96

~~Agricultural~~

Load # 246 Times: Start 0215 End 0545 Dump 0628 - 0726

Location(lat/long) -9 +40 → 30 +00 Tide 0834 L

Weather SKIES CLEAR TO PARTLY CLOUDY ; NE 7-10 KNOTS ; SEAS 1-2'

H_2O Surf. Temp 78 Time 0630 Below Mid-Depth 77 Time 0635 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: ok/clear

Stbd Draghead: ϕ Deflector: ok/ clear

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL CLEAN FINE WHITE SAND WITH SPARSE SMALL SHELLS NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: PETER WESTERMAN, BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/25/96

~~Agitation~~

Load # 249 Times: Start 0807 End 1133 Dump 1210 - 1314

Location(lat/long) -9 +40 ~ +30 +00 Tide 0834 LOW - 1436 HIGH

Weather SKIES PARTLY CLOUDY ; WINDS NE 7-10 KNTS ; SEAS 1-3' ; 80° 1238

H_2O Surf Temp 78° Time 1220 Below Mid-Depth 78° Time 1225 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK/clear

Stbd Draghead: Ø Deflector: OK/clear

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: BUTTERFLY RAY

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL FINE WHITE SAND SOME SMALL SHELLS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/25/96

Load # ~~Agitation~~ Agitation 248 Times: Start 1445 End 1833 Dump 1912

Location(lat/long) -9+40 → 30+00 Tide 1436 HIGH / 2059 LOW

Weather clear, winds SE 0-5, seas 1-2'

H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: southern bay Stbd: Ø

Comments: clean white sand

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 5/25/96

~~Agitation~~ Load # 249 Times: Start 2054 End 2353 Dump 0025

Location(lat/long) -9+40 > +30 +00 Tide 1436 HIGH / 2054 LOW

Weather clear, winds variable, seas calm

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: No debris - material is a clean white sand

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/28/96

~~Agitation~~

Load # 250 Times: Start 0306 End 0629 Dump 0731 - 0831

Location(lat/long) -9+40 > 30+00 Tide 0249 HIGH / 0924 LOW

Weather PARTLY CLOUDY ; WINDS SE 1-3 KNOTS, SEAS 1-2' 84° @ 0745

H_2O Surf Temp 79° Time 0730 Below Mid-Depth 79° Time 0735 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: STEEL CABLE Deflector: OK/ clear

Stbd Draghead: Deflector:

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: STEEL CABLE AND METAL BAND FROM 50 GALLON DRUM

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL CLEAN, FINE, WHITE SAND

STBD DRAGHEAD UNABLE TO BE BROUGHT UP - TRUNION OFF TRACK - BEING WORKED ON 0835. AT ANCHOR 1102 DUE TO TRUNNION SLIDE BAR BEING JAMMED.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TE	6	0837	AT PUMP SITE EAST OF STERN

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/26/96

~~Agitation~~

Load # 251 **Times: Start** 1528 **End** 1738 **Dump** 1840

Location(lat/long) -9 +40 - 30 +00 **Tide** 1531 HIGH / 2157 LOW

Weather haze/overcast, winds ESE, 5-10 Kts, seas 1-2

H_2O Surf Temp _____ **Time** _____ **Below Mid-Depth** _____ **Time** _____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: ∅ **Deflector:** OK

Stbd Draghead: ∅ **Deflector:** OK

Port Discharge, Fore: ∅ **Mid:** ∅

Port Discharge, Aft: ∅

Stbd Discharge, Fore: ∅ **Mid:** ∅

Stbd Discharge, Aft: 1 southern stingray

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ∅ **Stbd:** ∅

Comments: DOWN 0926 TO 1353 WORK ON TRUNION. AT ANCHOR 1102 DUE TO TRUNNION SLIDE BAR BEING JAMMED

[illegible]

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District • Winter 1996

Date: 5/[illegible]/96

~~Agitation~~ 0000 27 0350 - 0503

Load # 252 Times: Start ~~0000~~ End 0315 Dump ~~0450~~

Location(lat/long) -9+40 → 36100 Tide 0344 H

Weather Overcast, winds SE 15 20, seas 2-3

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: southern stingray

Comments: fine sand one stingray - warmer water has brought more stingrays out.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/27/96

~~Agitation~~

Load # 953 Times: Start 0547 End 0914 Dump 0957-1058

Location(lat/long) -9+40 → 30+00 Tide 1015 LOW

Weather SKIES PARTLY CLOUDY; WINDS E 1-3 KNOTS; SEAS 1-2' 84° @ 1115

H_2O Surf. Temp 79° Time 0950 Below Mid-Depth 79° Time 1010 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: STEEL CABLE Deflector: OK/ CLEAR

Stbd Draghead: ϕ Deflector: OK/ CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: DRIFTWOOD, RAY PART

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL FINE, CLEAN, WHITE SAND - NO DEBRIS

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/27/96

~~Agitation~~

Load # 254 Times: Start 1134 End 1601 Dump 1642

Location(lat/long) -9+40 > 30+00 Tide 1628 HIGH

Weather SKIES PARTY CLOUDY / HAZY / WINDS SE 10 KNOTS; SEAS 1-2' 86° @ 1712

H_2O Surf Temp 79° Time 1645 Below Mid-Depth 79° Time 1655 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: ϕ Deflector: OK / CLEAR

Stbd Draghead: ϕ Deflector: OK / CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: WHELK

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL CLEAN, WHITE SAND NO DEBRIS
EVERYTHING IN GOOD WORKING ORDER

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/27/96

~~Agitation~~

Load # 255 Times: Start 1825 End 2202 Dump 2254

Location(lat/long) -9+40 → 30+00 Tide 2254 L

Weather Overcast, Winds ESE 15-20 Knots, seas 2-3

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: saltwater catfish

Stbd Discharge, Fore: Mid: Ø

Stbd Discharge, Aft: w/c cable

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: R Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/28/96

~~Agriculture~~

Load # 056 Times: Start 0035 End 0456 Dump 0544

Location(lat/long) -9+40 → 30+00 Tide 0442 LOW

Weather clear winds SE 10-15 KNOTS, seas 2-3'

H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK/CLEAR

Stbd Draghead: ANCHOR Deflector: OK/CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL CLEAN, FINE, WHITE SAND.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: PETER WESTERMAN, BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/28/96

~~Agitation~~

Load # 257 **Times: Start** 0728 **End** 1123 **Dump** 1206 - 1315

Location(lat/long) -9 +40 → +30 +00 **Tide** 1105 LOW

Weather SKIES PARTLY CLOUDY; WINDS NW 1-3 KNOTS; SEAS 1-2' 88° @ 1120

H_2O Surf Temp 79° **Time** 1210 **Below Mid-Depth** 78° **Time** 1220 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes____ **No** X

Port Draghead: ϕ **Deflector:** OK/CLEAR

Stbd Draghead: ϕ **Deflector:** OK/CLEAR

Port Discharge, Fore: ϕ **Mid:** ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ **Mid:** ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ **Stbd:** ϕ

Comments: PETER WESTERMAN DEPARTS, REPLACED BY CHRIS MASON AT 0730

DREDGE MATERIAL CLEAN, FINE, WHITE SAND. NO DEBRIS.

ALL EQUIPMENT INTACT, GOOD CONDITION, AND FULLY FUNCTIONAL.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	6	1130	WEST OF CHANNEL MARK #4

Observer(s) On Duty: BRETT JOHNSON

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ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 5/28/96

Load # ~~Agitation~~ 258 Times: Start 1555 End 1951 Dump 2028
Location(lat/long) -9 +40 → +30 +00 Tide 1725 HIGH / 2350 LOW
Weather RAIN SQUALLS PTLY CLOUDY ; WINDS NW 1-3 KNOTS ; SEAS 1-2' 88° @ 1730
H_2O Surf Temp 2040 Time 76°F Below Mid-Depth 2040 Time 76°F C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR Deflector: OK
Stbd Draghead: CLR Deflector: OK
Port Discharge, Fore: CLR Mid: CLR
Port Discharge, Aft: WHELK FRAGMENT
Stbd Discharge, Fore: CLR Mid: CLR
Stbd Discharge, Aft: CLR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLR Stbd: CLR

Comments: LEFT PUMP OUT AT 1350. STALLED DUE TO SQUALL. BACK TO DIGGING AT 1555. MATERIAL IS SAND. UNIDENTIFIED FLOUNDER IN HOPPER.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1940	100 YDS NW OF SEA BUOY
Tt	1	1845	SAME AREA

Observer(s) On Duty: BRETT JOHNSON, CHRIS MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/29/96

~~Agitation~~

Load # 259 Times: Start 2222 End 0242 Dump 0322 - 0423

Location(lat/long) -9+40 > +30+00 Tide @ 2350 LOW

Weather SKIES PTLY CLOUDY; WINDS E 1-3 KNOTS; SEAS CALM

H_2O Surf Temp 76° Time 0330 Below Mid-Depth 75° Time 0340 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK/CLEAR

Stbd Draghead: Ø Deflector: OK/CLEAR

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: BUTTERFLY RAY

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL CLEAN, FINE, WHITE SAND W/ SOME SMALL SHELLS. DEPARTED DUMP FOR FERNANDINA 0433 TO TAKE ON FUEL & WATER, ARRIVED FERNANDINA 1110. DEPARTED FERNANDINA 1445, ARRIVED ST AUGUSTINE APPX 2147.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRET JOHNSON, CHRIS MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District • Winter 1996

Date: 5/30/96

~~Agriculture~~

Load # 260 **Times: Start** 2227 **End** 0205 **Dump** 0241

Location(lat/long) -9 +40 - 30 +00 **Tide** 2244 10W

Weather SKIES PTLY CLOUDY; WINDS SW 1-3 KNOTS; SEAS CALM 74° @ 630

H_2O Surf. Temp 76° **Time** 0245 **Below Mid-Depth** 76° **Time** 0300 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes____ **No** X

Port Draghead: Ø **Deflector:** OK/CLEAR

Stbd Draghead: Ø **Deflector:** OK/CLEAR

Port Discharge, Fore: Ø **Mid:** Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø **Mid:** Ø

Stbd Discharge, Aft: BUTTERFLY RAY

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: MATERIAL CLEAN, FINE WHITE SAND

RETURNED FROM FERNANDINA REFUEL AT 2147 5/29/96

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/30/96

~~Agitation~~

Load # 261 Times: Start 0448 End 0752 Dump 0827

Location(lat/long) -9 +40 → +30 +00 Tide 3.6 EBB

Weather CLOUDY, WIND W 5 KTS SEAS CALM, LT CHOP AIR TEMP 84°F

H_2O Surf. Temp 76.5° Time 0830 Below Mid-Depth 76° Time 0830 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: CLR Mid: CLR

Port Discharge, Aft: CLR

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: CLR

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CLR Stbd: CLR

Comments: MATERIAL IS SAND - NO BIOLOGIC SAMPLES

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: C MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU · Kings Bay Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 5/30/96

~~Agitation~~

Load # 262 Times: Start 1043 End 1528 Dump 1622

Location(lat/long) -9+40 - +30+00 Tide 1248 LOW | 1912 HIGH

Weather HAZY ; WINDS NE 7-10 KNOTS ; SEAS 2-3' 82° @ 1724

H_2O Surf Temp 78° Time 1615 Below Mid-Depth 79° Time 1625 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK | clear

Stbd Draghead: ϕ Deflector: OK | clear

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL CLEAN, FINE, WHITE SAND. NO BIOLOGICAL SPECIMEN

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments LOGGERHEAD SURFACED THEN DOVE
Cc	1	1630	50FT EAST of STERN AT PUMP SITE

Observer(s) On Duty: CHRIS MASON, BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU Kings Bay Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/31/ 96

Agitation

Load # 263 Times: Start 0928 End 1145 Dump 1202-1205

Location(lat/long) -9+40 + +31+00 Tide 1339 low

Weather SKIES CLOUDY; WINDS NE 17-27 KNOTS. SEAS 4-7 ft. 77° @ 1115

H_2O Surf.Temp 78° Time 1215 Below Mid-Depth 77.5° Time 1230 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: FIREHOSE Deflector: OK / CLEAR

Stbd Draghead: ϕ Deflector: OK / CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: WHELK PIECE, SOUTHERN STINGRAY

Stbd Discharge, Fore: X Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: 1830 - 2100 : DOWNTIME TO REPAIR STBD TRUNION (5-30)

2130 AT ANCHOR DUE TO WEATHER (5-30)

0800 5-31 WEIGHED ANCHOR, [redacted] INSIDE JETTY TO TAKE ON SUPPLIES. DREDGING INLET AND DUMPING BACK OUT IN CHANNEL. DREDGE MATERIAL COARSE SAND WITH SHELL

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0850	IN CHANNEL
Tt	2	1105	AT INTERSECTION OF ICW & CHANNEL

Observer(s) On Duty: BRETT JOHNSON, CHRIS MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/31/96

~~Agitation~~

Load # 264 Times: Start 1221 End 1345 Dump 1403 - 1406

Location(lat/long) -9 +40 - +31 +00 Tide 1339 low

Weather MOSTLY CLOUDY, WINDS NE 17-27 KNOTS; SEAS 5-7 FT.

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK/CLEAR

Stbd Draghead: ϕ Deflector: OK/CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL WAS COARSE SAND WITH SHELL. DREDGING IN INLET; BACKING AND FILLING

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	10-12	1328	100 FT SOUTH OF ICW MARKER # 1

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/31/94

Load # ~~Agitation~~ 265 Times: Start 1418 End 1700 Dump 1721-1724

Location(lat/long) -9+40 → +31+00 Tide 2004 HIGH

Weather MOSTLY CLOUDY ; WINDS NE 17-27 KNOTS ; SEAS 5-7 FT 76° @ 1715

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CRAB TRAP Deflector: OK/CLEAR

Stbd Draghead: ∅ Deflector: OK/CLEAR

Port Discharge, Fore: ∅ Mid: ∅

Port Discharge, Aft: ∅

Stbd Discharge, Fore: ∅ Mid: ∅

Stbd Discharge, Aft: ∅

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ∅ Stbd: ∅

Comments: DREDGING INSIDE INLET. BACKING AND FILLING.
MATERIAL COARSE SAND WITH SHELL

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	~~Approx~~ 20	AT ALL TIME	INSIDE INLET

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 5/31/96

~~Agitation~~

Load # 266 Times: Start 1736 End 2005 Dump 2026

Location(lat/long) -9+40 → +31+00 Tide 2004 HIGH

Weather CLOUDY, WIND E 20 KT SEAS 5'

H_2O Surf Temp 76° Time 2045 Below Mid-Depth _____ Time _____ C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: CABLE Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: CLR Mid: CLR

Port Discharge, Aft: WHELK

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: LINE, PIECE OF HOSE

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CLR Stbd: LINE

Comments: DREDGING INSIDE, MULTIPLE CUTS, DUMPING MATERIAL IN CHANNEL OVERDEPTH AREAS. MATERIAL SAND & SHELL 2051, ANCHORED FOR WX.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	4	1749	2 GRPS OF 2 IN MAIN CHANNEL

Observer(s) On Duty: C MASON, BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 06/01/96

Load # ~~Agitation~~ 267 Times: Start 0641 End 0917 Dump 0940

Location(lat/long) -9+40 → +31+00 Tide 5.12 EBB (0935)

Weather PTLY CLOUDY, WIND ENE 10-12KTS AIRTEMP 77°F (0940)

H_2O Surf Temp 76.5° Time 0930 Below Mid-Depth _____ Time _____ C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: CLR Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: WHELK.

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: BUTTERFLY RAY, ROCKS, WOOD

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: WOOD, ROCKS Stbd: CLR

Comments: WEIGHED ANCHOR 0615
MATERIAL SHELL & COARSE SAND BOTTOM DUMPED IN CHANNEL OVERDEPTH. 1515
ANCHORED IN ICW 1053, PULLED UP ANCHOR TO ANCHOR OUTSIDE SEA BUOY. ANCHORED 1628, AWAITING CORPS PERMISSION TO DREDGE.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. MASON, BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/2/96

~~Agitation~~

Load # 268 **Times: Start** 0927 **End** 1110 **Dump** 1129-1131

Location(lat/long) -9+40 → +31+00 **Tide** 0915 HIGH / 1519 LOW

Weather SKIES PTLY CLOUDY; WINDS ENE 11-21 KNOTS; SEAS 3-5'; 78° 1115

H_2O Surf Temp 76° **Time** 1150 **Below Mid-Depth** — **Time** — **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: Ø **Deflector:** OK/CLEAR

Stbd Draghead: Ø **Deflector:** OK/CLEAR

Port Discharge, Fore: Ø **Mid:** Ø

Port Discharge, Aft: SHELLS, WHELK

Stbd Discharge, Fore: Ø **Mid:** Ø

Stbd Discharge, Aft: SHELLS, WHELK

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: WEIGH ANCHOR 0830

DREDGE MATERIAL COARSE SAND WITH LOTS OF SHELL, DUMPED IN CHANNEL OVERDEPTH AREAS.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON, CHRIS MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/2/94

~~Agitation~~

Load # 769 Times: Start 1143 End 1315 Dump 1330-1332

Location(lat/long) -9 +40 > +31 +00 Tide 1514 LOW

Weather SKIES PTLY CLOUDY ; E/NE WINDS 11-21 KNOTS ; SEAS 3-5'

H_2O Surf Temp 77° Time 1326 Below Mid-Depth — Time — C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK | CLEAR

Stbd Draghead: Ø Deflector: OK | CLEAR

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: SHELLS. WATER

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: SHELLS, WATER

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL COARSE SAND WITH ALOT OF SHELL. DUMPED IN CHANNEL OVERDEPTH AREAS

FLT & BOAT DRILL @ NOON

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRENT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/2/96

Load # ~~Agitation~~ 270 Times: Start 1352 End 1452 Dump 1507-1509

Location(lat/long) -9+40 > +31+00 Tide 1519 LOW

Weather SKIES PTLY CLOUDY, WINDS ENE 11-21 KNOTS, SEAS 3-5'

H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: WIRE Deflector: OK/CLEAR

Stbd Draghead: Ø Deflector: OK/CLEAR

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: SHELLS

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: SHOE SOLE, SHELLS

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL COARSE SAND WITH SHELL. DUMPED IN OVERDEPTH AREAS.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/2/94

~~Agitation~~

Load # 271 Times: Start 1521 End 1628 Dump 1644-1646

Location(lat/long) -9 +40 > 31 +00 Tide 1519 LOW

Weather SKIES PTLY CLOUDY; WINDS ENE 11-21 KNOTS; SEAS 3-5'

H_2O Surf. Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: ROPE Deflector: OK/CLEAR

Stbd Draghead: ROPE Deflector: OK/CLEAR

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: BEER CANS, SHELLS, WIRE, GLASS

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: SHELLS

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL COARSE SAND WITH SHELL. DUMPED IN OVERDEPTH AREAS.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 06/02/96

Load # ~~Agitation~~ 272 Times: Start 1700 End 1835 Dump 1854

Location(lat/long) -9+40 → +31+00 Tide 3.5 FLOOD (1840)

Weather SCTRD CLOUDS, WIND NE 10-15 KTS SEAS 2-4' AIR TEMP 80°F

H_2O Surf Temp 77.5° Time 1839 Below Mid-Depth _____ Time _____ C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: CLR Deflector: OK

Stbd Draghead: CRAB POT Deflector: OK

Port Discharge, Fore: OK Mid: CLR

Port Discharge, Aft: WHELKS, OYSTER SHELLS

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: WHELKS, ALUM. CANS, OYSTER SHELLS

Port Overflow: NA

Stbd Overflow: N/A

Overboard Discharge, Port: CLR Stbd: PIECE OF CARPET

Comments: MATERIAL, COARSE SAND & SHELL, OYSTER SHELLS, DUMPED IN CHANNEL OVERDEPTH.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 06/02/96

~~Agitation~~

Load # 273 Times: Start 1910 End 2010 Dump 2031

Location(lat/long) -9+40 → +31+00 Tide 5.3 FLOOD (2025)

Weather CLR, WIND ENE 7-12KT SEAS 2'-4'

H_2O Surf. Temp 77.5° Time 2020 Below Mid-Depth _____ Time _____ C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes _____ No X

Port Draghead: CLR Deflector: OF

Stbd Draghead: CLR Deflector: OF

Port Discharge, Fore: CLR Mid: CLR

Port Discharge, Aft: WHELKS, ALUM. CANS, DRIFTWOOD

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: PLASTICS, NYLON LINE, CANS

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CRAB POT MESH Stbd: CLR

Comments: MATERIAL SHELL & SAND, MOSTLY SHELL FRAGMENTS. ANCHORED FOR NIGHT, 2052.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~Kings Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 06/03/96

~~Agitation~~

Load # 274 Times: Start 1000 End 1126 Dump 1140-1143

Location(lat/long) -9+40 ~ +31+00 Tide 1008 HIGH

Weather SKIES PTLY CLOUDY; WINDS NE 4-6 KNOTS; SEAS 1-2' 84° @ 1115

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK | CLEAR

Stbd Draghead: Ø Deflector: OK | CLEAR

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: RUBBER HOSE, CANS, SHELLS, WHELK

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: SHOE, CARPET PIECE, CANS, SHELLS

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: DREDGE MATERIAL COARSE SAND WITH SHELL. DUMPED IN OVERDEPTH AREAS IN CHANNEL.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON, CHRIS MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/3/96

~~Agitation~~

Load # 275 Times: Start 1300 End 1445 Dump 1611 - 1724

Location(lat/long) -9 +40 → +30 +00 Tide 1604 LOW

Weather SKIES PTLY CLOUDY; WINDS NE 7-16 KNOTS; SEAS 1-3' 79° @ 1700

H_2O Surf.Temp 77° Time 1605 Below Mid-Depth 77° Time 1615 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK/CLEAR

Stbd Draghead: ϕ Deflector: OK/CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL FINE, WHITE SAND. NO DEBRIS

BEGAN DREDGING AS BEFORE IN CHANNEL AND PUMP OUT ON BEACH AT 1300 6/3/96.

DROP ANCHOR 1724 FOR SEA CONDITIONS.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 04/02/94

~~Agitation~~

Load # 276 Times: Start 0657 End 1034 Dump 1120-1238

Location(lat/long) -9 +40 2 +30 400 Tide 5.12 EBB (1120)

Weather CLR, WIND E 5KT SEAS 3' TEMP (AIR) 86°F (1125)

H_2O Surf Temp 78° Time 1120 Below Mid-Depth 77.5 Time 1120 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: CLR Mid: CLR

Port Discharge, Aft: WHELK SHELL

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: CLR

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: WIRE. Stbd: CLR

Comments: WEIGH ANCHOR 0657 FOR DUG SITE. FOUND MATERIAL IS WHITE SAND WITH SOME SHELL FRAGMENTS.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/4/96

~~Agitation~~

Load # 277 Times: Start 1317 End 1521 Dump 1559 - 1725

Location(lat/long) -9 + 40 → + 30 + 00 Tide 1701 LOW

Weather SKIES PTY CLOUDY; WINDS ESE 12 KNOTS; SEAS 2-4' 82° @ 1700

H_2O Surf Temp 79° Time 1600 Below Mid-Depth 78.5 Time 1610 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: ϕ Deflector: OK/CLEAR

Stbd Draghead: ϕ Deflector: OK/CLEAR

Port Discharge, Fore: ϕ Mid: ϕ

Port Discharge, Aft: ϕ

Stbd Discharge, Fore: ϕ Mid: ϕ

Stbd Discharge, Aft: ϕ

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: ϕ Stbd: ϕ

Comments: DREDGE MATERIAL MEDIUM TO FINE SAND WITH SHELL

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonvile District - Winter 1996

Date: 06/04/96

~~Agitation~~

Load # 278 Times: Start 1839 End 2000 Dump 2109 - 2216

Location(lat/long) -9+40 > +30+00 Tide 4.40 FLOOD(2135)

Weather CLR WIND SE 10KT SEAS 3-4' TEMP 78°F (AIR)

H_2O Surf Temp 79° Time 2130 Below Mid-Depth 78° Time 2130 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: CLR Mid: CLR

Port Discharge, Aft: OYSTER SHELLS, WOOD

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: CLR

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CLR Stbd: CLR

Comments: MATERIAL SAND, FINE W/ SOME OYSTER SHELLS AFTER PUMPOUT, RUNNING TO JACKSONVILLE TO SHIPYARD FOR REPAIRS TO PROPS. ARRIVED 0250 6-5.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 06/08/96

Load # 279 Times: Start 0016 End 0304 Dump 0341 - 0541
Location(lat/long) -9+40 → +30+00 Tide 3.77 EBB 0433
Weather CLEAR, WIND SW 5KT SEAS 1'
H_2O Surf Temp 81° Time 0430 Below Mid-Depth 81° Time 0430 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: CLR Deflector: OK
Stbd Draghead: CLR Deflector: OF
Port Discharge, Fore: CLR Mid: CLR
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR Mid: SAND DOLLARS
Stbd Discharge, Aft: CLR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: CLR Stbd: CLR

Comments: DEPARTED JACKSONVILLE APPX 2330 6-5. ARRIVED ST AUGUSTINE 0430 6-6 FOR DIGGING. CHECKING PORT SCREW VIBRATION 0450 - 0900 CREW CHANGE (CAPT, CHIEF, COOK) 0830.
0900 - @ ANCHOR IN CHANNEL.
1300 - DIVER INSPECTS PORT WHEEL - WILL HAVE TO RETURN TO SHIPYARD.
2010 (6-6) ARRIVED ATLANTIC MARINE, JACKSONVILLE FOR REPAIRS.
2000 - (6-7) DEPARTED JACKSONVILLE. BRETT JOHNSON REPLACED 134 TRAY MCDONALD PRIOR TO DEPARTURE.
0016 - (6-8) ARRIVED ST AUGUSTINE FOR DIGGING

MATERIAL SAND.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: C. MASON, B. JOHNSON, TREY MCDONALD.

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 6 10B 196

Load # 280 Times: Start 0551 End 0800 Dump 0837-0946
Location(lat/long) -9+40 → +30 +00 Tide .2/ ft. FLOOD 0937
Weather CLEAR, SEAS 1'-2', WIND SW 8KTS.
H_2O Surf.Temp 81° Time 0930 Below Mid-Depth 81° Time 0935 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLEAR Deflector: OK
Stbd Draghead: CLEAR Deflector: OK
Port Discharge, Fore: CLEAR Mid: OYSTER SHELLS
Port Discharge, Aft: CLEAR
Stbd Discharge, Fore: OYSTER SHELLS Mid: OYSTER SHELLS
Stbd Discharge, Aft: CLEAR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: WOOD Stbd: WOOD

Comments: MEDIUM-FINE WHITE SAND; OYSTER SHELLS, SOME SMALL SHELLS IN DREDGE MATERIAL. SOME SMALL PIECES OF WOOD DEBRIS PRESENT.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: TREY McDONALD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6 / 8 / 96

Load # 281 Times: Start 1021 End 1312 Dump 1353-1525

Location(lat/long) -9+40 → +30+00 Tide 4.44 FLOOD / 1407

Weather CLR, WIND SE 10KT SEAS 2-4'

H_2O Surf Temp 79° Time 1460 Below Mid-Depth 79° Time 1405 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: CLR Mid: CLR

Port Discharge, Aft: CLR

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: CLR

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CLR Stbd: CLR

Comments: MATERIAL FINE WHITE SAND. NO SAMPLES THIS LOAD.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: T. McDONALD, C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ~~King Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel
USACE, Jacksonville District - Winter 1996

Date: 06/09/96

Load # 282 Times: Start 1602 End 0845 Dump 0943 - 1038
Location(lat/long) -9+40 → +30+00 Tide -0.07 ft. FLOW (1047)
Weather PARTLY CLOUDY; SEAS: 2-3' SWELLS; WIND: 6 KNOTS FROM SW (1046)
H_2O Surf Temp 78° Time 1091 Below Mid-Depth 78° Time 1037 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLEAR Deflector: OK
Stbd Draghead: CLEAR Deflector: OK
Port Discharge, Fore: PIECE OF FIBERGLASS Mid: OYSTER SHELLS, SAND DOLLARS
Port Discharge, Aft: WIRE, FISHING LINE, ALUMINUM CAN
Stbd Discharge, Fore: CLEAR Mid: SAND DOLLARS, OYSTER SHELLS
Stbd Discharge, Aft: CLEAR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: WOOD Stbd: CLEAR

Comments: 1698 - ⚓ DOWN FOR WX.
(6/9/96) - 0457 - RESUME DREDGING
DREDGE MATERIAL WAS A COMBINATION OF FINE, WHITE SAND, & MEDIUM GRAIN, BROWN SAND. ALSO INCLUDED MANY SMALL SHELLS MIXED IN WITH THE SAND.
NO TURTLE SAMPLES IN THIS LOAD

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	1	0757	BREACHING IN SHOALS N OF CHANNEL MARKER #4
Tt	3	0851	SWIMMING N; LOCATED SE OF CHANNEL MARKER #2

Observer(s) On Duty: C. MASON, T. McDONALD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU · ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/9/96

Load # 283 Times: Start 1134 End 1544 Dump 1633 - 1904

Location(lat/long) -9+40 → +30+00 (CHANNEL CLEAN-UP) Tide 4.34 EBB 1855

Weather SCT T-STRMS, HAZY, WIND WNW 5KT SEAS 2'-3'

H_2O Surf. Temp 78° Time 1645 Below Mid-Depth 78° Time 1655 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes ____ No Y

Port Draghead: CLR Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: CLR Mid: SOUTHERN STARGAZER CARCASS

Port Discharge, Aft: WOOD

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: CLR

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CLR Stbd: CLR

Comments: MATERIAL IS FINE WHITE SAND MIXED WITH COARSER FINE SHELL

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
T+	4	1116	SWIMMING S; ON RETURN RUN FROM DUMP-OUT

Observer(s) On Duty: TREY McDONALD, CHRIS MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge ~~MERMENTAU~~ ~~King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/9/96

Load # 284 **Times: Start** 1943 **End** 2224 **Dump** 2305-0026

Location(lat/long) -9+40 → +30+00 (CHANNEL) **Tide** .87 FLOOD (0017)

Weather CLR, WIND SW 10 KTS, SEAS 2-4'

H_2O Surf Temp 78° **Time** 0010 **Below Mid-Depth** 77.5 **Time** 0015 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes____ **No** X

Port Draghead: CLR **Deflector:** OK

Stbd Draghead: CLR **Deflector:** OK

Port Discharge, Fore: CLR **Mid:** CLR

Port Discharge, Aft: CLR

Stbd Discharge, Fore: CLR **Mid:** CLR

Stbd Discharge, Aft: CLR

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: MATERIAL IS FINE WHITE SAND

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: TREY MCDONALD, CHRIS MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MERMENTAU ~~· King's Bay Entrance Channel~~ St. Augustine Harbor Entrance Channel

USACE, Jacksonville District - Winter 1996

Date: 6/10/96

Load # 285 Times: Start 0014 End 0456 Dump 0538 - 0707

Location(lat/long) 9140 → 30100 N [illegible] Tide 3.5 EBB (0600)

Weather CLR WIND NNW 5KTS 2'-3' SEAS

H_2O Surf Temp 77° Time 0545 Below Mid-Depth 77° Time 0550 C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No X

Port Draghead: CLR Deflector: OK

Stbd Draghead: CLR Deflector: OK

Port Discharge, Fore: CLR Mid: CLR

Port Discharge, Aft: CLR

Stbd Discharge, Fore: CLR Mid: CLR

Stbd Discharge, Aft: WOOD, WHELK SHELL

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: CLR Stbd: CLR

Comments: MATERIAL IS FINE SAND W/ SOME SHELL

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
—			

Observer(s) On Duty: C MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonvile District - WINTER 1996

Date: 6/10/96

Load # 286 **Times: Start** 0742 **End** 1131 **Dump** 1315-1435
Location(lat/long) -9+40 → +30+00 **Tide** 3.4 (1220) - Flood
Weather Cloudy; Wind: SW 9K; seas: 2'-4'
H_2O Surf. Temp 77 **Time** 1252 **Below Mid-Depth** 77° **Time** 1255 **C or (F) (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: Clear **Deflector:** OK
Stbd Draghead: OK - clear **Deflector:** OK
Port Discharge, Fore: Hair scrunchie **Mid:** Fishing line, wood, small bluecrab
Port Discharge, Aft: Clear
Stbd Discharge, Fore: Clear **Mid:** Clear
Stbd Discharge, Aft: Clear
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: ____ **Stbd:** Clear

Comments: 0930h - Smooth Butterfly Ray sucked up through aft, port discharge.
0956 - Forward cable stuck/broke; lifted stbd draghead while repairing the port cable
1030h - Resumed dredging on stbd side
1100 - Port draghead raised
1115 - Resumed dredging on Port side

TREY MC DONALD REPLACED BY SARA SHAPIRO

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: Sara Shapiro / Chris Mason

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6/10/96

Load # 287 **Times: Start** 1700 **End** 2150 **Dump** 2228 - 2358
Location(lat/long) -9 +40 +30 +00 **Tide** 1.72 Ebb (2210)
Weather Partly cloudy; Wind: SW 9k; Seas: 2'-4'
H_2O Surf Temp 77° **Time** 2254 **Below Mid-Depth** 77° **Time** 2300 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes____ **No** ✓

Port Draghead: clear **Deflector:** OK
Stbd Draghead: N/A * **Deflector:** N/A *
Port Discharge, Fore: clear **Mid:** sand dollar, juv. crab, garbage
Port Discharge, Aft: clear
Stbd Discharge, Fore: clear **Mid:** clear
Stbd Discharge, Aft: plastic bag
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: clear **Stbd:** clear

Comments: AGITATION PERFORMED 1509-1700
2030: Problems w/ the Stbd aft cable connection
* Did not raise Stbd draghead

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
None			

Observer(s) On Duty: Sara Shapiro

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonvile District - WINTER 1996

Date: 06/11/96

arrived, left
0751 - 0957

Load # 288 **Times: Start** 0157 **End** 0710 ☆**Dump** 1038 - 1043 in channel
Location(lat/long) -9 +40 → +30 +00 **Tide** 2.7 (0800) EBB
Weather Ptly cloudy; wind: SW 8kts; seas; 1'-3'
H_2O Surf.Temp 77° **Time** 0818 **Below Mid-Depth** 77° **Time** 0825 **C or (F) (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** ✓

Port Draghead: clear **Deflector:** ok
Stbd Draghead: Being Repaired **Deflector:** Being Repaired
Port Discharge, Fore: clear **Mid:** clear
Port Discharge, Aft: clear
Stbd Discharge, Fore: clear **Mid:** clear
Stbd Discharge, Aft: clear
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: clear **Stbd:** clear

Comments: 0130 - 0157 AGITATION
0425 STBD TED WELD FAILS, DEFLECTOR HANGS BENEATH DRAGHEAD. DREDGING ON PORT ARM ONLY.
0800: Port side - flange on the wedge of the pump-out pipe broken - never started pumping. TED REPAIRED
☆0957: Can not pump - will dump spoils into center of channel will continue to dredge the sides & dump it in the center because the pump will take too long to repair.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
None			

Observer(s) On Duty: C. MASON / S. Shapiro

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 06/12/96

Load # 289 **Times: Start** 1230 **End** 1600 **Dump** 1635-1727
Location(lat/long) 9+40 → 30+00 **Tide** 4.14 (1707) FLOOD
Weather CLOUDY, WIND SE 5-10 KTS SEAS 2 TO 3'
H_2O Surf Temp 79° **Time** 1650 **Below Mid-Depth** 79° **Time** 1650 **C or (F) (circle one)**

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: CLR **Mid:** CLR
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR **Mid:** CLR
Stbd Discharge, Aft: CLR
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: HORSESHOE CRAB, CABLE **Stbd:** CLR

Comments: PUMPOUT PIPE REPAIRED, NOW DREDGING AS USUAL.
1313 - DIGGING ON PORT ARM ONLY.
1518 - BOTH ARMS.
MATERIAL IS FINE WHITE SAND.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
NONE			

Observer(s) On Duty: C. MASON

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District • WINTER 1996

Date: 06/18/96

Load # 290 **Times: Start** 6-12 2027 **End** 6-13 0027 **Dump** 0119-0208

Location(lat/long) -9+40 → +30+00 **Tide** 0.31 FT (FLOOD) 0218

Weather SEAS 1-2', WIND SSW @ 8-10 KTS; CLEAR SKIES

H_2O Surf Temp 79° **Time** 0201 **Below Mid-Depth** 79° **Time** 0203 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR **Deflector:** OK

Stbd Draghead: CLR **Deflector:** OK

Port Discharge, Fore: CLR **Mid:** SAND DOLLARS

Port Discharge, Aft: CLR

Stbd Discharge, Fore: SOCK **Mid:** CLEAR

Stbd Discharge, Aft: CLEAR

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: PIECE OF CAST IRON **Stbd:** CLR

Comments: MATERIAL DREDGED IS FINE WHITE SAND
DUMP TOOK PLACE ON 6-13-96

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: C. MASON, T. McDONALD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6 / 13 / 96

Load # 291 **Times: Start** 0246 **End** 0502 **Dump** 0539 - 0611
Location(lat/long) -9+40 → +30+00 **Tide** 2.70(FLOW) 0555
Weather WIND SW@10KTS ; SEAS 1-2 ; SKIES CLEAR
H_2O Surf Temp 79° **Time** 0515 **Below Mid-Depth** 78° **Time** 0575 **C or (F) (circle one)**

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: CLR **Deflector:** OK
Stbd Draghead: CLR **Deflector:** OK
Port Discharge, Fore: CLR **Mid:** OYSTER SHELLS
Port Discharge, Aft: CLR
Stbd Discharge, Fore: CLR **Mid:** SMALL PIECE OF PLASTIC
Stbd Discharge, Aft: CLR
Port Overflow: —
Stbd Overflow: —
Overboard Discharge, Port: CLR **Stbd:** CLR

Comments: MATERIAL IS FINE WHITE SAND

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. MCDONALD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District • WINTER 1996

Date: 6/13/96

Load # 292 **Times: Start** 0810 **End** 1202 **Dump** 1043/1340
Location(lat/long) 29+40 -7 30+00 **Tide** High 1930
Weather clear, winds SE 10-15 kts, seas 2-3
H_2O Surf Temp _____ **Time** _____ **Below Mid-Depth** _____ **Time** _____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes ____ **No** X

Port Draghead: Ø **Deflector:** ok
Stbd Draghead: Ø **Deflector:** OK
Port Discharge, Fore: Ø **Mid:** Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø **Mid:** Ø
Stbd Discharge, Aft: Ø
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: 0810 - RESUME LOADING OF MATERIAL INTO HOPPER

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. McDonald & Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 6/13/96

Load # AGITATION / ~~#293~~ to be continued after repairs 6-14 Times: Start 2143 End 0020 Dump —

Location(lat/long) -9 +40 → +30 +60 Tide 1 2010 H

Weather overcast, winds SE 20-25, seas 3-4

H_2O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Ø Deflector:

Stbd Draghead: Ø Deflector:

Port Discharge, Fore: Ø Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø Mid: Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø Stbd: Ø

Comments: 2058-2143 -CONTINUING AGITATION THROUGH OVERBOARD DISCHARGES ONLY.
2143 - BEGAN LOADING # 293
2220 - DID ABBREVIATED CHECK OF DRAGHEADS & OVERBOARD DISCHARGES WHILE WAITING FOR GPS TO RE-ACQUIRE - EVERYTHING CLEAR
2238 - RESUME DREDGING

Dumped after port engine and propeller damaged

6-14 1000 Divers repairing propeller

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: T. McDONALD, P. WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District - WINTER 1996

Date: 1/14/96

Load # 893 **Times: Start** 1515 **End** 1858 **Dump** 1919
Location(lat/long) -9+40 → 30+00 **Tide** 1346 L
Weather clear/haze, winds SE 10-15, seas 2-3
H_2O Surf Temp 79° **Time** 1300 **Below Mid-Depth** 79° **Time** 1305 **C or (F)** (circle one)

Are there incidents involving endangered or protected species? Yes____ **No** X

Port Draghead: Ø **Deflector:** OK
Stbd Draghead: Ø **Deflector:** OK
Port Discharge, Fore: Ø **Mid:** Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø **Mid:** Ø
Stbd Discharge, Aft: Ø
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: no debris

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge MERMENTAU ST AUGUSTINE ENTRANCE
USACE, Jacksonville District • WINTER 1996

Date: 6/15/96

Load # 294 Agitation — **Times: Start** 2032 2216 **End** 2216 0111 **Dump** 0204

Location(lat/long) -9+40 -7 +30 +00 **Tide** 0230 L

Weather Overcast, winds SE 10-12 kts, seas 2-3

H_2O Surf. Temp____ **Time**____ **Below Mid-Depth**____ **Time**____ **C or F (circle one)**

Are there incidents involving endangered or protected species? Yes____ **No** X

Port Draghead: Ø **Deflector:** OK

Stbd Draghead: Ø **Deflector:** OK

Port Discharge, Fore: Ø **Mid:** Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø **Mid:** Ø

Stbd Discharge, Aft: Ø

Port Overflow: N/A

Stbd Overflow: N/A

Overboard Discharge, Port: Ø **Stbd:** Ø

Comments: Clean white sand with only shell debris

~~Original~~

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 6/15/96

Load # 296 Times: Start 0938 End 1307 Dump 1358
Location(lat/long) -9+40 → 30+00 Tide 1429 L
Weather Overcast/Rain, winds SE 15-18 kts, seas 3-4
H_2O Surf.Temp 79° Time 0930 Below Mid-Depth 79° Time 0930 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: Stargazer
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: Ø Stbd: Ø

Comments: fine sand & shell mixture

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - St. Augustine Harbor Entrance Channel
USACE, Jacksonvile District - Winter 1996

Date: 6/15/96

Load # 297 Times: Start 1648 End 1519 Dump 2005
Location(lat/long) -9+40 → 30+00 Tide 20:49 H
Weather overcast/rain, winds SE 10-15, seas 1-2
H_2O Surf.Temp 80° Time 1809 Below Mid-Depth 80° Time 1805 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead: Ø Deflector: OK
Stbd Draghead: Ø Deflector: OK
Port Discharge, Fore: Ø Mid: Ø
Port Discharge, Aft: Ø
Stbd Discharge, Fore: Ø Mid: Ø
Stbd Discharge, Aft: wood, shell
Port Overflow: N/A
Stbd Overflow: N/A
Overboard Discharge, Port: Ø Stbd: Ø

Comments: full load Agitation till 2400

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: P Westerman