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

DAILY REPORT

Date: 02 / 08 / 96 Loads: Agitation

Area(s) Worked: Stations -1+00-9+00

Weather Conditions:

Range of H_2O Temperature: Surface 55°F Below Mid-Depth 53°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Observers aboard the dredge at 0645. The dredge is equipped with 100% inflow screening. The port and starboard inflow pipe each has a fore and mid discharge boxes. These openings are screened with a 4"x4" rebar. These openings are lateral. At the aft end of the discharge there is a lander that is screened. This screen is horizontal and is where the majority of samples will be collected. There is also two overboard discharge pipes that are screened. All screens have a 4"x4" openings and is made up out of a heavy duty rebar. These screens should hold up very well and should require no or little maintenance. Both dragheads are equipped with TEDs.

First part of the day the overboard dischare cages were used. Samples found were horseshoe crabs, wood, shell and trash. The rest of the day the dredge was only wheel washing. Due to the low density of the material wheel washing seems to get better agition results. Material digging is sand. The second agitation was done with the overboard discharge pipes and wheel washing.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	8	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 09 / 96 Loads: Agitating

Area(s) Worked: Stations-1+00-9+00

Weather Conditions: Partly cloudy, Winds W 10-20 knots, Seas 1-3

Range of H_2O Temperature: Surface 55°F Below Mid-Depth 55°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
All digging right now is agitation. The first hours of digging are being pumped through the overboard discharge pipes. Samples are very small in quantity. Samples include whelks, wood, rope and horseshoe crabs. The last part of the agitation cycle is dine by wheel washing, no pumping is involved in this agitation.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	12	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 10 / 96 Loads: Agitating

Area(s) Worked: Stations -1+00+9+00

Weather Conditions: Mostly clear, Winds W 10 knots, Seas calm

Range of H_2O Temperature: Surface 57°F Below Mid-Depth 57°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Agitation continues, with most of the agitating done by pumping out through the overboard discharge cages. Only one whelk was sampled today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

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

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

WEEKLY SUMMARY

Dates: 02 / 08 / 96 - 02 / 10 / 96 Loads: Agitation

Range of H_2O Temperature: Surface 55-57°F Below Mid-Depth 53-57°F

Area(s) Worked: Stations -1+00+9+00

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

Comments: The dredge has only been agitating the first part of the project. Soon as a pilot channel has been dug loads will be pumped into the hopper and pumped ashore. For now the dredge is agitating for about six hours at a time on the high water. Most of the agitating is done by pumping out through the overboard discharge pipe. Near the end of the cycle the drags are brought on deck and wheel washing commences. Samples in the overboard discharge cages have been very small in quantity. Samples include horseshoe crabs, whelk, rope and wood. The material digging is sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	4	20	Bottlenose Dolphins

Observers On Duty: Eric Westerman, Peter Westerman

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

DAILY REPORT

Date: 02 / 11 / 96 Loads: Agitation

Area(s) Worked: Stations -2+00+9+00

Weather Conditions: Clear and cloudy, Winds W 10-20 knots, Seas 1'-2'

Range of H_2O Temperature: Surface 57°F Below Mid-Depth 57°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Agitation digging continues. Digging in a very clean sand area. Nothing was sampled today or caught in the draghead. Most of the agitating is done by pumping matetial through the overboard discharge cages. Some wheel washing still continues.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	12	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 12 / 96 Loads: Agitation

Area(s) Worked: Stations -2+00+9+00

Weather Conditions: Clear, Winds N 15-20 knots, Seas 3'-4' swell

Range of H_2O Temperature: Surface 55°F Below Mid-Depth 55°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Agitation continues by pumping out through the overboard discharge and wheel washing. No samples were found today. Material digging is a clean fine sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	1	In channel

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

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

DAILY REPORT

Date: 02 / 13 / 96 Loads: Agitation

Area(s) Worked: -2+00+9+00

Weather Conditions: Clear, Winds NW 10-18 knots, Seas 2'-4' swell

Range of H_2O Temperature: Surface 55°F Below Mid-Depth 55°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Agitation continues through moving material through the overboard discharge and wheel washing. No samples were found today.

At 1108 a right whale was sighted approximately 600 feet SE of buoy three. Sighting was of the animals back twice at 1108 and 1122. The whale was traveling SE. There were dolphins and birds feeding in the same area. The dredge is still agitating and was not traveling to the pump out area. The animal was large in size. Other than the species no other distinguishing characteristics could be made from the brief sightings.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	14	Bottlenose dolphins
Eg	1	1	Eubalaena glacials

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

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

DAILY REPORT

Date: 02 / 14 / 96 Loads: NA

Area(s) Worked: NA

Weather Conditions:

Range of H_2O Temperature: Surface Below Mid-Depth

Condition of all screening apparatus: NA

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

Comments (type of material being dredged, biological specimens, etc.):

At 0100 dredge went to Fernandina for fuel and repairs. Slow bell was observed from the disposal site in the kings bay project area due to whale survey plane sighting a right whale in the project area earlier in the day. After fueling up the dredge went to anchor in the amelia river for repairs. At 2100 dredge picked up anchor and started back to St. Augustine. On the way out of Fernandina two manatees were sighted resting in the warm water discharge area at the paper plant.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tm	1	2	81°27'33"W 30°41'05"N 2 manatees

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

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

DAILY REPORT

Date: 02 / 15 / 96 Loads: Agitation and load 1

Area(s) Worked: -2+00+900

Weather Conditions: Cloudy, Winds SW 15-20 knots, Seas 1'-3'

Range of H_2O Temperature: Surface 58°F Below Mid-Depth 58°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

The first load was pumped into the hopper and ashore today. Samples are very light in quantity. Samples include trash, wood and whelks. Material digging is a clean sand. Inflow sampling system is working good.

Phil Bates was out today from the USACE Jacksonville district and wants tomake some TED modifications. The TED will be changed to be more flexible with the contour of the ground. Instead of a single angle the TED will move up and down as it is digging. Extra reinforcement plates will be welded to TED. This will help on the wear and tear of the TED and keep it structurally intact. Some wear and tear is already showing. This work will be completed in the next couple of days.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	4	Bottlenose dolphins

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

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

DAILY REPORT

Date: 02 / 16 / 96 Loads: 02-04

Area(s) Worked: +2+00 9+00

Weather Conditions: Partly cloudy, Winds W-NW 15-25 knots, Seas 2'-3'

Range of H_2O Temperature: Surface 58°F Below Mid-Depth 58°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Most of all the digging now is being pumped into the hopper. Very little agitating is done. Samples are still small in quantity. Samples include trash, wood, whelks, horseshoe crabs and assorted shell. Material digging is sand.

At 2300 the dredge went to anchor due to bad weather.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	2	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 17 / 96 Loads: 05

Area(s) Worked: Stations +2+00+9+00

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

Range of H_2O Temperature: Surface 56°F Below Mid-Depth 55°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

The dredge was at anchor part of the day due to bad weather. The welder started working on the TEDs today. Samples remain small in quantity, samples include trash, wood, whelks and oysters.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	4	Bottlenose Dolphins

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

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

WEEKLY SUMMARY

Dates: 02 / 11 / 96 - 02 / 17 / 96 Loads: Agitation + 01-05

Range of H_2O Temperature: Surface 56-58°F Below Mid-Depth 55-58°F

Area(s) Worked: Stations +2+00+9+00

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

Comments: The dredge started pumping sand ashore on the 15th. The first of the week the dredge was agitating. This is done by put the material through the overboard discharge pipe and by wheel washing. The inflow sampling system is working good. Samples have been small in quantity. Samples consist of trash, wood, whelks, horseshoe crabs and assorted shells. The material digging is sand.

The TEDs have been started to be modified this week. The TEDS will be modified so they can adjust to the depth of the material and angle is correct without readjusting the TEDs hardware all the time. Reinforcement plates will also be welded on the TEDs to protect them from wear and tear from the sand.

Two manatees and one right whale were sighted this week. The whale was sighted SE of the channel and it was traveling SE. The dredge was in the cut agitating all day. Two manatees were sighted outside the project area. When the dredge went to Fernandina for fuel two manatees were sighted resting at the warm water discharge outlet at the paper plant. Neither the whale or the manatees were disrupted in their activity.

Material digging is sand. Water temperatures are taken by the observers in the cut area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Eg	1	1	Right Whale
Tt	10	37	Bottlenose Dolphins
Tm	1	2	Manatees (sighted outside the project)

Observers On Duty: Eric Westerman, Peter Westerman

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

DAILY REPORT

Date: 02 / 18 / 96 Loads: 06-09

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Clear, Winds variable 5-15 knots, Seas 1'-2'

Range of H_2O Temperature: Surface 57°F Below Mid-Depth 57°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

New chains were welded onto the TEDs. This allows the TED to move up and down while digging. The chains have not held up after digging for awhile. The chains broke at the welds. Some heavy duty shackles will be tried instead of the chains. Reinforcement shields are still not put on yet but should be in place in a couple of days.

Samples are almost absent from the screens. Material digging is a clean sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	4	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 19 / 96 Loads: 10-13

Area(s) Worked: Stations +2+00-9+00

Weather Conditions: Partly cloudy, Winds Southerly 5-15 knots, Seas 1'-2'

Range of H_2O Temperature: Surface 58°F Below Mid-Depth 58°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Digging pure sand and shell. Samples are almost nonexistent. One horseshoe crab was sampled today. TEDs were reshackled today and is holding up fine.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	1	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 20 / 96 Loads: 14-16

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Partly cloudy, Winds SW 10-15 knots, Seas 2'-4' swell

Range of H_2O Temperature: Surface 59°F Below Mid-Depth 59°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Sampling system is working fine. Digging a pure sand and shell area. Samples consist of small amounts of trash and shell.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	4	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02/ 21 / 96 Loads: 17-19

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Fog, sky variable, Winds light airs, Seas calm to 2'-4' swells

Range of H_2O Temperature: Surface 60°F Below Mid-Depth 60°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Samples remain small in quantity. Samples consist of wood and shell. Material digging sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	4	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 22 / 96 Loads: 20-21

Area(s) Worked: Stations +2+00-9+00

Weather Conditions: Overcast, fog, Winds light airs, Seas calm

Range of H_2O Temperature: Surface 60°F Below Mid-Depth 60°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Two loads were dug before the dredge went to anchor due to fog. Then the dredge preceded to Fernandina for fuel and water. While the dredge was fueling a manatee was sighted traveling by the dredge. Dredge departed the dock at 1715 on its way back to St. Augustine.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tm	1	1	Manatee (out of the project area)
Tt	1	6	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 23 / 96 Loads: 22-24

Area(s) Worked: Stations +2+00-9+00

Weather Conditions: Fog, sky variable, Winds SW 5-10 knots, Seas 1'3' swell

Range of H_2O Temperature: Surface 59°F Below Mid-Depth 59°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Samples remain light in quantity. Samples include sand dollars, horseshoe crabs, trash and whelks. TEDs are holding up but wearing on the bottom some.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	4	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 24 / 96 Loads: 25-28

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Partly cloudy, Winds W-SW 10-20 knots, Seas 1'-3' swell

Range of H_2O Temperature: Surface 60°F Below Mid-Depth 62°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

The port TED welds broke today. The repairs were done immediately before dredge started the next load.

Agitation and pumping loads ashore continue. Inflow system is working fine. Samples remain horseshoe crabs, whelks, decomposed fish, wood and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

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

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

WEEKLY SUMMARY

Dates: 02 / 18 / 96 - 02/ 24 / 96 Loads: 06-28

Range of H_2O Temperature: Surface 57-60°F Below Mid-Depth 57-62°F

Area(s) Worked: Stations +2+00+9+00

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

Comments: The material being dredged is coarse and fine sand with some shell in it. Samples taken from the inflow screens have been almost nonexistent or small in quantity. Samples include sand dollars, horseshoe crabs, blue crabs, whelks, wood, trash and assorted shells. The sampling system is efficient and in good working order. Any incident with a sea turtle should be detected in the inflow screens.

The TED's have been worked on this week. New shackles have been added and braces have been welded on. The bottom reinforcement shields have not been welded on yet. This work is planned to be done soon. The bottom of the TED's is showing signs of wear and tear but is holding up and staying intact.

Numerous cannonball jellyfish have been sighted in the project area this week. One manatee was sighted in Fernandina while the dredge was tied up to the dock for fuel. No sea turtles or whales were sighted in the project area this week.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tm	1	1	Manatee(sighted outside the project area)
Tt	7	23	Bottlenose Dolphins

Observers On Duty: Eric Westerman, Peter Westerman

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

DAILY REPORT

Date: 02 / 25 / 96 Loads: 29-32

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Clear, Winds variable 5-15 knots, Seas 1'-3' Swell

Range of H_2O Temperature: Surface 61°F Below Mid-Depth 62°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

One sea turtle was sighted today while traveling back to the cut. The turtle was sighted at 29°51'05"N, 81°15'05"W. The turtle was foating on the surface and as the dredge got closer the turtle dove. The sighting was a couple of hundred feet away from the dredge. The turtle was large in size but not a good enough sighting to identify the species.

Samples today included horseshoe crabs, whelks, trash, wood and shell. Material digging is sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
unidentified sea turtle	1	1	Large sea turtle
Tt	2	5	Bottlenose Dolphins

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

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau Kings Bay Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 02 / 26 / 96 Loads: 33-36

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Fog, partly cloudy, Winds southerly 10 knots, Seas 1'-2'swell

Range of H_2O Temperature: Surface 63°F Below Mid-Depth 64°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Agitation and digging continues. Samples remain small in quantity mainly consisting of whelks, trash, wood and shell. Material digging is sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	2	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 02 / 27 / 96 Loads: 37-40

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Clear, Winds West 5-8 knots, Seas light chop

Range of H_2O Temperature: Surface 63° F Below Mid-Depth 62°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

TEDs continue to show slight signs of wear and tear. The material being dredged varies from course to fine sand with very little debris.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	6	20	Bottlenose Dolphins

Observer(s) On Duty: Peter Westerman, Tim Cole

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

DAILY REPORT

Date: 02 / 28 / 96 Loads: 41-44

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Fog/Cloudy, winds variable, Seas calm- 3'

Range of H_2O Temperature: Surface 62° F Below Mid-Depth 62°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Stbd TED needed to have two support bars rewelded, which were the same welds that broke on the port TED four days earlier. Horseshoe crabs, sand dollars, whelks and assorted trash were the only debris found. The material being dredged is white sand of various grades.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	3	Bottlenose Dolphins

Observer(s) On Duty: Peter Westerman Tim Cole

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

DAILY REPORT

Date: 02 / 29 / 96 Loads: 45-46

Area(s) Worked: Stations +2+00+9+00

Weather Conditions: Overcast, Winds NE 15-20, Seas light chop

Range of H_2O Temperature: Surface 61°F Below Mid-Depth 62°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Digging was suspended due to high winds and seas from the NE. The vessel then proceeded to Fernandina for fuel and water.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Peter Westerman

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

WEEKLY SUMMARY

Dates: 02 / 25 / 96 - 03 / 02 / 96 Loads: 29-46

Range of H_2O Temperature: Surface 61°F Below Mid-Depth 64°F

Area(s) Worked: Stations +2+00+9+00

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

Comments: The material being dredged continues to be a mixture of fine white sand and course shell with very little debris. Samples taken from the screening include horseshoe crabs, blue crabs, sand dollars, cannonball jellyfish, wood and assorted metal scrap and trash.

The stbd TED had to have two support brackets rewelded ,which was also done on the port TED last week. The bottoms of the TEDs show a slow and steady pattern of wear that may need work in the future.

One sea turtle was spotted floating on the surface near the pumpout station, but submerged before it could be identified. Bottlenose dolphins are a common sight in the project area. There have been no incidents involving endangered species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	10	26	Bottlenose Dolphin
unidentified sea turtle	1	1	Large sea turtle

Observers On Duty: Eric Westerman, Tim Cole, Peter Westerman

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

DAILY REPORT

Date: 03 / 01 / 96 Loads: None

Area(s) Worked: NA

Weather Conditions: Overcast/Rain, Winds NNE 18-23 Knots, Seas 4-6'

Range of H_2O Temperature: Surface _____ Below Mid-Depth _____

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

No digging

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Peter Westerman

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

DAILY REPORT

Date: 03 / 02 / 96 Loads: None

Area(s) Worked: NA

Weather Conditions: Partly Cloudy, Winds NE 15-20, Seas 4-5' swells

Range of H_2O Temperature: Surface 62° F Below Mid-Depth 62°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

No digging

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Peter Westerman

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

DAILY REPORT

Date: 03/ 03 / 96 Loads: 47-48

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear, Winds variable, Seas calm

Range of H_2O Temperature: Surface 61°F Below Mid-Depth 60°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was fine white sand with mixed shell. Samples were light and included: sand, shell, wood, a clearnose skate, horseshoe crabs, and many cannonball jellyfish. Dredging began at 1218 after a long delay due to weather and repairs.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	9	Bottlenose Dolphins

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

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

DAILY REPORT

Date: 03/ 04 / 96 Loads: 49-51

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear, Winds NW-SSW 5-20 knots, Seas 4-5' swells

Range of H_2O Temperature: Surface 61°F Below Mid-Depth 61°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was sand and mixed shell. A large leather-back turtle was spotted 2 miles NNE of the dumpsite. The dredge was travelling further east than usual due to the large groundswells. The animal was seen floating on the surface and dove as the vessel passed by several hundred feet to the side. Shell, trash, horseshoe crabs, and a butterfly ray were found in the screening.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Dc (leatherback turtle)	1	1	Dermochelys coriacea seen on the way to the dump

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

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

DAILY REPORT

Date: 03/ 05 / 96 Loads: None

Area(s) Worked: Stations - NA

Weather Conditions: Clear/Partly cloudy, Winds S-SE 15-20 knots, Seas 4-5'

Range of H_2O Temperature: Surface 62°F Below Mid-Depth 62°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

No digging due to weather. 4-6 blows from a whale or whales were seen south of the sea bouy at 1700. The sighting was in high surf and high winds. Part of a fluke was seen and blows were witnessed over aperiod of 15 minutes, but no ident- could be made.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
unknown whale	1	1-2	seen at the surf line at 1700

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

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

DAILY REPORT

Date: 03/ 06 / 96 Loads: None

Area(s) Worked: Stations - NA

Weather Conditions: Clear/Partly cloudy, Winds SE-SW 15-22 knots, Seas 4-5'

Range of H_2O Temperature: Surface 65°F Below Mid-Depth 63°F

Condition of all screening apparatus: Good - angle iron was welded to the seams of the port TED to strenghen it.

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

Comments (type of material being dredged, biological specimens, etc.):
No digging due to weather.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

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

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

DAILY REPORT

Date: 03/ 07 / 96 Loads: 52-53

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Overcast/rain, Winds SW-NW 15-25 knots, Seas 4-5'

Range of H_2O Temperature: Surface 63°F Below Mid-Depth 63°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged was sand with shell. Samples were very slight and included shell, rope, horseshoe crabs, old whale and turtle bone, and wood. Work was delayed and then stopped due to problems caused by high winds.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	5	Bottlenose Dolphins-spotted between cut and pumpout.

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

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

DAILY REPORT

Date: 03/ 08 / 96 Loads: 54

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear, Winds NNW 20-25 knots, Seas 2-4'

Range of H_2O Temperature: Surface 63°F Below Mid-Depth 63°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was sand and shell. Samples were light and included many sea stars and sand dollars in the total percentage of debris found. Other items found were anchor parts, trash, wood, shell and a skate. The ship was unable to pumpout due to mechanical problems and had to unhook and dump its load. This took place just after midnight and the vessel proceeded to Kings Bay for agitation and repairs.

Species	# of Sightings	# of Animals	Comments
Tt	3	11-13	Bottlenose Dolphin located near sea buoy

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

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

DAILY REPORT

Date: 03/ 09 / 96 Loads: Agitation at Kings Bay

Area(s) Worked: Stations-Entrance Channel

Weather Conditions: Partly cloudy, Winds NNE 15-20 knots, Seas 2-4' chop

Range of H_2O Temperature: Surface 55°F Below Mid-Depth 55°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Dredge left St. Augustine just after midnight due equipment and weather considerations. Agitated the entrance channel of Kings Bay for almost 3 hours trying to knock down trouble spots. Only the port dragarm was used. The overflow basket was in place and created a wide spray that covered the fore-deck in up to two feet of sand. This took a considerable amount of time to clean up. Shell, wood and trash were cleaned out of the cage.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

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

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

WEEKLY SUMMARY

Dates: 03 / 03 / 96 - 03/ 09 / 96 Loads: 47-54 + Agitation at Kings Bay

Range of H_2O Temperature: Surface 61°F-65°F Below Mid-Depth 60°F-63°F
55°F at Kings Bay

Area(s) Worked: Sta -2+00 +20+00 55°F at Kings Bay
Kings Bay Entrance Channel

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

Comments: The material being dredged is a mixture of fine white sand and course shell. The sample of debris found has been small in quantity, but varied. Samples taken include skates, horseshoe crabs, blue crab, a butterfly ray, sand dollars, sea stars, wood,shell, old bones from turtles and whales, various boat parts and trash. The screening is 100% and in excellent shape. The port TED had some angle iron welded to the seams to strenghen it from the constant abrasion of course sand.

One large leatherback was seen floating on the surface on the way to the pumpout. The dredge was further east than usual due to large groundswells. The turtle was approximately 2 mi NNE of the pumpout and dove as the ship passed by. Cannonball jellyfish are found in large numbers. A series of whale spouts was seen over a 15 minute period in the breakers just south of the sea buoy. Part of a fluke was seen but no identification could be made. Bottlenose dolphins are a common sight in the work area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	10+	30+	a common sight especially at tide change
Dermochelys coriacea	1	1	seen on route to the pumpout
unidentified whale	1	1-2	near sea buoy

Observers On Duty: Peter Westerman, Kathryn Stephenson

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

DAILY REPORT

Date: 3 / 20 / 96 Loads: none

Area(s) Worked: none

Weather Conditions: Seas 4', Wind 25-40 kt W, Partly Cloudy

Range of H_2O Temperature: Surface 50°F Disregard Below Mid-Depth 50°F Disregard

Condition of all screening apparatus: good

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

Comments (type of material being dredged, biological specimens, etc.): Sailed from the Amelia River, after spending the night at anchor, at 0713. Arrived in St Augustine 1330, standing by to begin work, remained at anchor through midnight

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	2	at anchorage 1500

Observer(s) On Duty: Kathryn Stephenson, Cheryl Ryder

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

DAILY REPORT

Date: 3 / 21 / 96 Loads: Agitation Load #14

Area(s) Worked: Stations -2 to +20

Weather Conditions: Skies clear, winds W-NW 15-20 kt, seas 1-2'

Range of H_2O Temperature: Surface 56 °F Coast Guard Broadcast Below Mid-Depth

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Remained at anchor until 0807 when dredge moved to channel and commenced agitation at 1010. Agitation currently restricted to approximately 2½ hrs around high tide. Agitation load #14 completed at 1210 and back at anchor at 1255. Agitation load #15 started before next high tide at 1935. Material is fine sand/silt. No regular hosing required. It was found that the thermometer used for water temperatures is unreliable. Water temperatures will be taken from the Coast Guard radio broadcast for St. Augustine until a new thermometer is obtained.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tc	1	1	At anchorage 0908

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

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

DAILY REPORT

Date: 3 / 22 / 96 Loads: Agitation loads 15+16; Load # 55

Area(s) Worked: Stations -2 to +20

Weather Conditions: Skies clear, seas 1', winds WNW 5-15kt

Range of H_2O Temperature: Surface 56° CG Data Below Mid-Depth

Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes____ No____

Comments (type of material being dredged, biological specimens, etc.):
Agitation conducted around high tide and dredging conducted at low water. No agitation samples recorded. Dredge samples included wire, shell, rope, worms and keyhole urchins. Material dredged is fine sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	2	In channel

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

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

DAILY REPORT

Date: 3/23/96 Loads: 56-57 Agitation 17-18

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: clear skies, winds W-NW-NE 5-10KT, seas 1'

Range of H_2O Temperature: Surface 57°F USCG report Below Mid-Depth

Condition of all screening apparatus: excellent

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged is fine sand. Agitation samples included rope. Dredge samples included wood, line, trash, shell, metal and keyhole urchins.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	4	18	in and around channel

Observer(s) On Duty: Kathryn Stephenson, Cheryl Ryder

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

3/20

WEEKLY SUMMARY

Dates: 3/17/96 - 3/23/96 Loads: 55-57 Agitation 14-18

Range of H_2O Temperature: Surface 56-57°F Below Mid-Depth

Area(s) Worked: Stations -2+00 to +20+00

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

Comments: 3/17 through 3/19 Dredge worked agitating in Kings Bay. Sailed 3/20 at 0713 from Amelia River, arriving in St. Augustine at 1330. Began agitating at 1010 on 3/21, working only around the high tide, then returning to anchor.
3/22 Began a cycle of agitating the Shoal around the high tide and digging a load during the low off the Shoal. Regular pumpout proceeded after loading.
Material dredged was fine sand. Samples from loads include: rope, trash, horseshoe crab, keyhole urchins and worms. No samples from agitation.
Water temperatures are being taken from Coast Guard broadcasts, on board thermometer is unreliable.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	8	23	In and around the channel, Bottlenose Dolphin
Trichechus manatus	1	3	viewed leaving the fuel dock after finishing in Kings Bay, Amelia River, Manatees

Observers On Duty: Kathryn Stephenson, Cheryl Ryder

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

DAILY REPORT

Date: 3 / 24 / 96 Loads: Agitation Loads 19-20; Dredge Loads 58-59

Area(s) Worked: Stations -2 to +20

Weather Conditions: Skies clear, seas 1-2', winds SE 10-15 kt

Range of H_2O Temperature: Surface 59°F (Coast Guard Report) Below Mid-Depth NA

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged is fine sand and shell. No agitation samples were recorded. Dredging samples included shell, rock, trash, horseshoe crab, keyhole urchins, line, plastic and metal debris.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	3	18	Bottlenose dolphins north of and in channel

Observer(s) On Duty: Cheryl Ryder / Kathryn Stephenson

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

DAILY REPORT

Date: 3 / 25 / 96 Loads: Agitation Load #21, Dredge Loads 60-62

Area(s) Worked: Stations -2 to +20

Weather Conditions: Skies partly cloudy, seas 3-5' swell, winds SE 10-15 kt

Range of H_2O Temperature: Surface 61° (Coast Guard Report) Below Mid-Depth NA

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged is fine sand and shell. No agitation samples were recorded. Dredge samples included shell, horseshoe crab, whelks, rubber and one skate. Tim Henderson came to replace Kathryn Stephenson.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C. Ryder / Kathryn Stephenson / Tim Henderson

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

DAILY REPORT

Date: 3 / 26 / 96 Loads: Agitation Loads 23-24; Dredge Loads 63-66

Area(s) Worked: Stations -2 to +20

Weather Conditions: Partly cloudy skies, seas 3' swell, winds SE 5-10kt

Range of H_2O Temperature: Surface 60° (Coast Guard Report) Below Mid-Depth NA

Condition of all screening apparatus:

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged is fine sand and shell. No agitation samples were observed. Dredging samples included shell, whelks, wood, rock, horseshoe crabs, glass and metal wire.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	5	5	Bottlenose dolphins at pumpout, in channel and in transit.

Observer(s) On Duty: Cheryl Ryder / Tim Henderson

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

DAILY REPORT

Date: 3 / 27 / 96 Loads: Agitation Load #25; Dredge Loads 67-71

Area(s) Worked: Stations -2 to +20

Weather Conditions: Skies partly cloudy to overcast/rainy, seas 3-5' swell, winds SE 5-20 kt

Range of H_2O Temperature: Surface 62° (Coast Guard Report) Below Mid-Depth NA

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged is fine sand and shell. No agitation samples were recorded. Dredge samples included shell, whelks, wood, cloth, rope and one skate. Went to anchor at the end of load #71 at 0000 3/28/96.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	2	2	Bottlenose dolphins in cut and in transit

Observer(s) On Duty: Cheryl Ryder / Jim Henderson

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

DAILY REPORT

Date: 3 / 28 / 96 Loads: 72-75

Area(s) Worked: Stations -2 to +20

Weather Conditions: Skies partly cloudy to overcast/rainy, winds SE 5-20 kt, seas 3-5' swell

Range of H_2O Temperature: Surface 62°F Below Mid-Depth NA

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

On anchor in channel 0000 to 0640 due to swells, high winds and thunderstorms. Material dredged is fine sand and shell. Dredge samples included shell, whelks, wood, worm fragments, trash and rock.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	2	Bottlenose dolphins just outside channel

Observer(s) On Duty: Cheryl Ryder / Jim Henderson

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

DAILY REPORT

Date: 3 / 29 / 96 Loads: Agitation #26, Dredge Loads 76-79

Area(s) Worked: Stations -2 to +20

Weather Conditions: Skies clear to overcast, seas 3-5' swell decreased to 1-3', winds SW→NE

Range of H_2O Temperature: Surface 61°F (Coast Guard Report) Below Mid-Depth NA

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material being dredged is fine sand and shell. There were no agitation samples recorded. Dredge samples included shell, wood, whelks, glass, rock and one stingray.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	2	3	Bottlenose dolphins in channel and at pumpout

Observer(s) On Duty: Cheryl Ryder, Jim Henderson

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

DAILY REPORT

Date: 3 / 30 / 96 Loads: 80 - 83

Area(s) Worked: Stations -2 to +20

Weather Conditions: Seas 2-4', skies overcast/raining, winds N-NE → SE 5-10 Kt

Range of H_2O Temperature: Surface 61° (Coast Guard Report) Below Mid-Depth NA

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged is fine sand and shell. Dredge samples recorded include shell, wood, whelks and fiberglass. Dredge on anchor at 1945 due to high winds, waves, thunderstorms. Remained on anchor for the remainder of working day.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	3	3	Bottlenose dolphins at pumpout and in transit

Observer(s) On Duty: Cheryl Ryder / Jim Henderson

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

WEEKLY SUMMARY

Dates: 3 / 24 / 96 - 3 / 30 / 96 Loads: Agitation Loads 19-26, Dredge Loads 58-83

Range of H_2O Temperature: Surface 59-62°F Below Mid-Depth Not Available

Area(s) Worked: Stations -2 to +20

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

Comments:

The material being dredged continues to be a mixture of fine sand and shell with few debris. No agitation samples were recorded. Dredge samples removed from the screening included horseshoe crabs, skates, keyhole urchins, whelks, worm fragments, wood, rock, shell and assorted metal, plastic, glass and rubber debris. The sampling system is in good working order.

No target endangered species were sighted in the project area this week. Bottlenose dolphins were frequently seen in the channel, in transit and at the pumpout.

Surface water temperature is recorded daily from Coast Guard broadcasts since there is no thermometer available on board.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	16	33	Bottlenose dolphins in channel, in transit and at pumpout

Observers On Duty: Cheryl Ryder, Kathryn Stephenson, Jim Henderson

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

DAILY REPORT

Date: 3 / 31 / 96 Loads: None

Area(s) Worked: No stations worked

Weather Conditions: Skies overcast, seas 4-6', winds NE 10-15kt

Range of H_2O Temperature: Surface 63° (Coast Guard Report) Below Mid-Depth NA

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

At anchor until 0730 due to high seas and wind. Dredge departed St. Augustine Channel at 0759 to go to Fernandina for fuel and water. Bridge watch maintained throughout transit. Arrived in Fernandina at 1730. At fuel dock from 2005 to 2210. Departed St. Marys Channel at 2300. In transit back to St. Augustine for remainder of day.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	4	6	Bottlenose dolphins in transit and in channels
Caretta caretta	1	1	Loggerhead sea turtle observed off bow in transit 1102
Unidentified sea turtle	1	1	Observed at surface in transit 0920

Observer(s) On Duty: Cheryl Ryder / Jim Henderson

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

DAILY REPORT

Date: 4 / 1 / 96 Loads: 84-87

Area(s) Worked: stations -2 to +20

Weather Conditions: partly cloudy, seastate 1-3, winds NW 15-20 kt, temp 57-72°

Range of H_2O Temperature: Surface 63° Below Mid-Depth

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): The material being dredged continues to be a mixture of fine sand and shell with few debris. One agitation was performed today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	6	Bottlenose dolphins at pumpout

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

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

DAILY REPORT

Date: 4 / 2 / 96 Loads: 88 – 92

Area(s) Worked: Stations - 2 to +20

Weather Conditions: Clear, sea state 2-4, temp 54-58°, winds NE 10-20Kts

Range of H_2O Temperature: Surface 62° Below Mid-Depth

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): The material being dredged continues to be of fine sand and shell with little debris. No agitations were performed on this day.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	2	Bottlenose dolphins heading south

Observer(s) On Duty: [illegible]

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

DAILY REPORT

Date: 4 / 3 / 96 Loads: 93-97

Area(s) Worked: Stations -2 to +20

Weather Conditions: partly cloudy, winds S 5-10kt, seas 2-4, temp 56°-72°

Range of H_2O Temperature: Surface 62° Below Mid-Depth 62°

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): The material being dredged continues to be fine sand and shell with little debris. One agitation was performed on this day.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	2	3	Bottlenose dolphins

Observer(s) On Duty: J. HENDERSON + ERIC WESTERMAN

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

DAILY REPORT

Date: 4 / 4 / 96 Loads: 98 - 102

Area(s) Worked: stations -2 to +20

Weather Conditions: mostly clear,

Range of H_2O Temperature: Surface ≈68 Below Mid-Depth 67

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): The material being dredged continues to be fine sand and shell with little debris present. One agitation was performed in the day.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T-	1	1	[illegible]

Observer(s) On Duty: J. HENDERSON & ERIC WESTERMAN

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

DAILY REPORT

Date: 4 / 5 / 96 Loads: 103-107

Area(s) Worked: stations -2 to +20

Weather Conditions: partly cloudy, seastate 1-2, wind S/5-10 kt, temp. 62-68°

Range of H_2O Temperature: Surface 66-68 Below Mid-Depth 67

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): The material being dredged continues to be fine sand and shell with little debris present. No agitations were performed on this day.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
[illegible]	2	[illegible]	[illegible]

Observer(s) On Duty: J. Henderson, ERT [illegible] Roland

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

DAILY REPORT

Date: 4 / 6 / 96 Loads: 108-111

Area(s) Worked: stations -2 to +20

Weather Conditions: cloudy, 68°, wind W 10, seas 1-2 ft.

Range of H_2O Temperature: Surface 66-68 Below Mid-Depth 57°

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged continues to be fine sand some shell and very little debris. There were no agitations performed on this day.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: J. Henderson + E. [illegible]

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

WEEKLY SUMMARY

Dates: 03 / 31 / 96 - 04 / 06 / 96 Loads: 84-111

Range of H_2O Temperature: Surface 66-68°F Below Mid-Depth 67°F

Area(s) Worked: Stations -2 to +20

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

Comments: No turtles were sampled or sighted in the project area this week. Two sea turtles were sighted on the way to Fernandina when the dredge went for fuel.

Samples this week have been small in quantiy. Samples have mainly consisted of horseshoe crabs, whelks, clearnose skate, oyster shell, wood and trash. The inflow sampling system is intact and working fine. This is due to a good designed system that was put in place at the beginning of the project. The system is very efficient at sampling and has been maintenance free of repair work. The T.E.D. has had some reinforcement shields welded on it to protect it from the wear and tear of the sand. Some parts of this shield have worn away. With the amount of material left on this project it would be advisable to repair the worn areas on the shields. The T.E.D. is fully functional and working fine. Maybe the next time the dredge was to stop for bad weather or the next opportune time the shields could be repaired.

The material digging is sand and shell. The water temperatures on the weekly reflect H20 temperatures taken by the observers in the cut.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Cc	1	1	Loggerhead sea turtle (outside the project)
Unidentified sea turtle	1	1	Outside the project area
Tt	10	31	Bottlenose Dolphins

Observers On Duty: Eric Westerman, Jim Henderson, Pete Duley, C Ryder

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

DAILY REPORT

Date: 4 / 7 / 96 Loads: 112-116

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Mostly cloudy, Winds NE 10-20 Kts, Seas 1-4'

Range of H_2O Temperature: Surface 62°F Below Mid-Depth 61°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Samples remain small in quantity, mainly consisting of whelks and oystershell. Material dredged is sand and shell.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	2	Bottlenose dolphins

Observer(s) On Duty: Eric Westerman, Jim Henderson.

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

DAILY REPORT

Date: 4 / 8 / 96 Loads: 117 - 120

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: clear - mostly cloudy, Seas 2-4', Wind SE-NE light-10 kt

Range of H_2O Temperature: Surface 63°F Below Mid-Depth 63°F

Condition of all screening apparatus: good condition

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged was fine sand. Samples were very light and consisted of shell and trash. Kathryn Stephenson came to replace Jim Henderson.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	3	6	en route to pumpout, bottlenose dolphins

Observer(s) On Duty: Eric Westerman, Jim Henderson, Kathryn Stephenson

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

DAILY REPORT

Date: 4 / 9 / 96 Loads: 121 - 125

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear - mostly cloudy, seas 1-4', winds N-W 0-12 Kt

Range of H_2O Temperature: Surface 63-64°F Below Mid-Depth 64°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged was sand and shell. Samples were light and included: metal, line, shell, wood, old bone, cannonball jellyfish and a sand dollar. A large number of cannonball jellyfish were seen in the water.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	5	13	between the cut and the pumpout

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

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

DAILY REPORT

Date: 4 / 10 / 96 Loads: 126 - 129

Area(s) Worked: Station -2+00 to +20+00

Weather Conditions: Clear, Seas 1-5' swell, Wind NW-N14-NE 7-20 kts.

Range of H_2O Temperature: Surface 63-64°F Below Mid-Depth 63-65°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged remains sand and shell. Samples were light and included shell, trash, wood, horseshoe crabs and cannonball jellyfish. Dredge was down for weather 0345-1053.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No Sightings		

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

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

DAILY REPORT

Date: 4 / 11 / 96 Loads: 130 - 133

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear, Seas 1-3', Wind W-SE 5-10 kts

Range of H_2O Temperature: Surface 64 - 65°F Below Mid-Depth 63-65°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged remains sand and shell. Samples included various kinds of shell and a horseshoe crab. Large numbers of cannonball jellyfish were spotted in the area. unidentified turtle reported by the crew at 1555, recorded as being light in color, roundish and small in size.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	4	15	bottlenose dolphins in and near the cut
unidentified turtle	1	1	near the pumpout area 29° 50.94' N 81° 15.38' W

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

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

DAILY REPORT

Date: 4 / 12 / 96 Loads: 134 - 138

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear - mostly cloudy, Seas 0-3', Wind SE-W-S 0-15 Kts

Range of H_2O Temperature: Surface 63-65 °F Below Mid-Depth 63-65 °F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged was sand and shell. Samples remain light, including various types of shell. Large numbers of cannonball and lions mane jellyfish were spotted in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	2	7	in and near cut

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

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

DAILY REPORT

Date: 4 / 13 / 96 Loads: 139 - 142

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear - partly cloudy, Seas 1-3', Wind SW-WSW-W 5-20 kts.

Range of H_2O Temperature: Surface 63-64°F Below Mid-Depth 63-65°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged was sand and shell. Samples were light in all screens, and included: shell, wood, trash, worms, smooth butterfly ray and shark parts. A large number of cannonball and Lion's mane jellyfish remain in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	3	10	Bottlenose dolphins in and around the cut

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

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

WEEKLY SUMMARY

Dates: 04 / 07 / 96 - 04 / 13 / 96 Loads: 112-142

Range of H_2O Temperature: Surface 62-65°F Below Mid-Depth 61-65°F

Area(s) Worked: Stations -2+00 to +2-+00

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

Comments: No turtles were sampled this week and one turtle was sighted. One turtle was sighted near the pump out station. Samples have been small in quantity. Samples include whelks, horseshoe crabs, cannonball jellyfish, oyster shell, sand dollars, wood and trash. Numerous cannonball jellyfish have been sighted all week in the project area.

The sampling system is holding up well and working fine. The repairs to the T.E.D.s have started this week. The replacement angle iron was cut this week and ready to weld on the T.E.D.s. This will be done when the dredge is in transit from Fernandina after fueling on the 15th. The T.E.D. has been fully functional this week. The sand has been wearing on the T.E.D.s and eroding the bottom and especially the tip. This repair should keep the T.E.D.s in good working order.

The material digging is sand and small amounts of shell. Last weeks H20 temperatures were slightly higher, this was due to the method of taking the temperature. A new heavier weight was used this week, and the thermometer is being left in the water longer. The water temperatures are taken in the cut area everyday.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	18	53	Bottlenose Dolphins
Unidentified sea turtle	1	1	29°50.94'N 81°15.38'W

Observers On Duty: Eric Westerman, Kathryn Stephenson

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

DAILY REPORT

Date: 4 / 14 / 96 Loads: 143

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear, Seas 1-3', Wind S 10-15 Kts

Range of H_2O Temperature: Surface 63° F Below Mid-Depth 64° F

Condition of all screening apparatus: Repairs were made to the chafed tips of both TED's. Angle iron was added as reinforcement

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

Comments (type of material being dredged, biological specimens, etc.): Dredge left St. Augustine at 0031 after pumping out load #142 and sailed for Fernandina. Arrived at the fuel dock and loaded fuel and water 0700-1050. Returned to St. Augustine at 1840 and began load #143. It consisted of sand and shell, the only sample was catfish parts. Repairs to the TED'S were made during travel time. A large green turtle was spotted 40 feet off the stbd side at 1500. The turtle dove as the dredge passed, approx. 4 NM due East of Jacksonville Beach

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	1	in Amelia River
Chelonia mydas	1	1	1500 30° 16.0 N 81° 18.24 W
			en route to St. Augustine.

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

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

DAILY REPORT

Date: 4 / 15 / 96 Loads: 144 - 146

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Partly-mostly cloudy, Seas 1-3', Wind S-SW-SE 10-15 Kts

Range of H_2O Temperature: Surface 64° F Below Mid-Depth 62-65°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged was sand and shell. Samples remain light, and included shell, wood, Keyhole urchin and trash. Large numbers of jellyfish in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	5	21	Bottlenose dolphins in and around the cut

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

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

DAILY REPORT

Date: 4 / 16 / 96 Loads: 147-150

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Cloudy-clear, Seas 2-4', Wind S-SE-NW 10-30 Kts

Range of H_2O Temperature: Surface 63-65 °F Below Mid-Depth 62-66 °F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged remains sand and shell. Samples were light and consisted of various shells, Keyhole urchins, trash and a horseshoe crab. Large numbers of jellyfish were seen in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	5	20	Bottlenose dolphins - between the pumpout and the dig area

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

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

DAILY REPORT

Date: 4 / 17 / 96 Loads: 151 - 154

Area(s) Worked: Stations: -2+00 to +20+00

Weather Conditions: Clear - Cloudy, Seas calm - 2', Winds NW - NE 5-10 Kts

Range of H_2O Temperature: Surface 64° F Below Mid-Depth 65° F

Condition of all screening apparatus: Load #154 - brackets on Port and Stbd TED parted. Ted's were still fully functional - will be welded before load #155

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

Comments (type of material being dredged, biological specimens, etc.): Material was sand and shell. Samples were light and included: shell, wood, trash, smooth butterfly ray, blue and lady crabs. Large numbers of cannonball and Lions mane jellyfish in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	7	19	Bottlenose dolphin around both the dig area and pumpout

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

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

DAILY REPORT

Date: 4 / 18 / 96 Loads: 155 - 158

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: partly cloudy - cloudy, Seas calm - 2', Wind SE-S light - 10 kts.

Range of H_2O Temperature: Surface 64 °F Below Mid-Depth 64 - 65 °F

Condition of all screening apparatus: Good - Brackets on both Port and Stbd. TED's were welded.

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged was sand and shell. Samples remain light and included: shell, wood, some trash, starfish and a butterfly ray. Large numbers of Lions Mane and cannonball jellyfish seen in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	6	22	from pumpout to dig area. Bottlenose Dolphins

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

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

DAILY REPORT

Date: 4 / 19 / 96 Loads: 159 - 162

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Clear - mostly cloudy, Seas calm-2', Winds S-SE 10-15 kts

Range of H_2O Temperature: Surface 64-65°F Below Mid-Depth 65°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged was sand and shell. Samples were light, and consisted of: wood, shell, some trash, tunicates, flounder, shark parts and a horseshoe crab.
Loads 160 and 162 were preceeded by aggitation due to the low tide.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	3	5	at the pumpout and the cut. Bottlenose Dolphins

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

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

DAILY REPORT

Date: 04 / 20 / 96 Loads: 163-166

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Mostly clear, Winds variable 10-15 knots, Seas 1'-4'

Range of H_2O Temperature: Surface 64°F Below Mid-Depth 64°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material digging consist of sand and shell. Samples today include horseshoe crabs, bonnethead shark, partial lemon shark parts, shell and wood. Some agitation was done at low tide today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	3	Bottlenose Dolphins

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

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

WEEKLY SUMMARY

Dates: 04 / 14 / 96 - 04 / 20 / 96 Loads: 143-166

Range of H_2O Temperature: Surface 63-65°F Below Mid-Depth 62-66°F

Area(s) Worked: Stations -2+00 to +20+00

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

Comments: No turtles were sampled or sighted in the project area this week. One Green sea turtle was sighted on the way back from Fernandina from fueling on the 14th.

All screens are intact and in good working order. New angle iron shields were welded on both of the T.E.D.s on the 14th when the dredge was in transit back to St. Augustine from Fernandina.

Samples this week have been small in quantity. Samples include horseshoe crabs, whelks, oyster shell, flounder, butterfly rays, sea stars, blue crabs, lady crabs, keyhole urchins, wood and trash. Small amounts of agitation was done this week at low tide. Numerous cannonball jellyfish and lions mane have been sighted in the cut and in transit to the pump out station.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Cm	1	1	Green sea turtle 30°16.00'N 81°18.24'W
Tt	28	91	Bottlenose Dolphins

Observers On Duty: Eric Westerman, Kathryn Stephenson

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

DAILY REPORT

Date: 04 / 21 / 96 Loads: 167-169

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Skies clear, Winds SE % KNOTS, Seas Swell 4'

Range of H_2O Temperature: Surface 68°F Below Mid-Depth 68°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material digging is sand and shell. All screens intact and working fine. Sample today were small in quantity and included wood, shell, trash and keyhole urchin. Some agitation was done today at low tide.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	4	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Dana Ross

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

DAILY REPORT

Date: 04 / 22 / 96 Loads: 170-173

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Skies clear, Winds SE 5-15 knots, Seas swell 2'-4'

Range of H_2O Temperature: Surface 68-69°F Below Mid-Depth 67-68°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Samples remain small in quantity, samples include horseshoe crabs, butterfly rays, fiberglass, wood, shark remains and whelks. Material digging is sand and shell. Agitation is still being done at low tide.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

Observer(s) On Duty: Eric Westerman, Dana Ross

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

DAILY REPORT

Date: 04 / 23 / 96 Loads: 174-177

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Mostly clear, Winds S-SE 15 knots, Seas 3-5

Range of H_2O Temperature: Surface 65-67°F Below Mid-Depth 66-67°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Samples continue to be small in quantity, samples today include horseshoe crabs, butterfly ray, trash and shell. Material digging is sand and shell. No agitation was done today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	4	16	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Dana Ross

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

DAILY REPORT

Date: 04 / 24 / 96 Loads: 178-181

Area(s) Worked: Stations -2+00 to 20+00

Weather Conditions: Skies variable, Winds variable 10-20 knots, Seas 2'-5'

Range of H_2O Temperature: Surface 67°F Below Mid-Depth 66-67°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material digging is sand and shell. Samples today include butterfly rays, horseshoe crabs, whelks, wood, trash and shark remains. All screening is intact and working well.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	18	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Dana Ross

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

DAILY REPORT

Date: 04 / 25 / 96 Loads: 182-184

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Skies clear, Winds variable 10-15 knots, Seas 2'-4'

Range of H_2O Temperature: Surface 67-68°F Below Mid-Depth 66-68°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material digging is sand and shell. Samples today include horseshoe crabs, blue crabs, butterfly rays, trash and assorted shark remains. The shark parts are from a fishing boat that was throwing the sharks overboard when following the dredge.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	10	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Dana Ross

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

DAILY REPORT

Date: 04 / 26 / 96 Loads: 185-188

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Skies mostly clear, Winds variable 10-20 knots, Seas 2'-4'

Range of H_2O Temperature: Surface 68°F Below Mid-Depth 68°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Sample today were small in quantity, samples mainly consisted of decomposed shark parts, horseshoe crabs, wood and trash. Material digging is sand and shell. Still sighting a lot of cannonball jellyfish and lions mane in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	6	23	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Dana Ross

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

DAILY REPORT

Date: 04 / 27 / 96 Loads: 189-192

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Skies clear, Winds W-SW 10 knots, Seas 1'-4'

Range of H_2O Temperature: Surface 69°F Below Mid-Depth 69°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Samples remain small in quantity, samples mainly consist of decomposed shark remains, horseshoe crabs, whelks, wood and trash. At 1513 a small loggerhead sea turtle was sighted near the pump out station. The turtle dove and was not sighted again. Material digging is sand and shell.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Cc	1	1	Loggerhead sea turtle 29°50.91'N 81°13.93'W
Tt	5	31	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Dana Ross

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

WEEKLY SUMMARY

Dates: 04 / 21 / 96 - 04 / 27 / 96 Loads: 167192

Range of H_2O Temperature: Surface 65-69°F Below Mid-Depth 66-69°F

Area(s) Worked: Stations -2+00 to +20+00

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

Comments: No turtles were sampled this week and one turtle was sighted. One small loggerhead sea turtle was sighted near the pump out station. Just as the dredge was leaving the hook up area a small loggerhead was sighted of the port side. The turtle dove and was not sighted again.

The screening has stayed intact and in good working condition. The T.E.D.s are intact but the angle iron shields are wearing down again. New shields will be welded on when an opportune time comes. Brackets on the starboard T.E.D. also need some minor welding. The T.E.D. is fully functional.

Samples this week have been small in quantity. Samples have mainly consisted of horseshoe crabs, whelks, wood, oyster shell and shark remains tossed overboard by fisherman. Still sighting a lot of cannonball jellyfish and lions mane in the area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Cc	1	1	Loggerhead sea turtle 29°50.91'N 81°13.93'W
Tt	22	102	Bottlenose Dolphins

Observers On Duty: Eric Westerman, Dana Ross

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

DAILY REPORT

Date: 04 / 28 / 96 Loads: No loads

Area(s) Worked: Stations -2+00 to +20+00

Weather Conditions: Partly cloudy, Winds SE 10 knots, Seas 1'-3'

Range of H_2O Temperature: Surface 68°F Below Mid-Depth 69°F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Dredge departs Fernandina at 1100 after taking on fuel and water. In transit the starboard T.E.D. was repaired. The brackets on the inside and outside had broken and were welded back together. The pump out station was moved to just north of the pier today. Digging started at 2315.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	6	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Dana Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - 'MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 4 / 29 / 96 Loads: 193 - 195

Area(s) Worked: STATIONS -2+00 - +20+00

Weather Conditions: WIND - SE 10-20K; SKY - PARTLY CLDY - CLEAR; SEAS 1-6'; TEMP 70°-79° F

Range of H_2O Temperature: Surface 70°F Below Mid-Depth 68°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DIGGING MOSTLY FINE SAND W/ SHELL MIX. SAMPLES TAKEN INCLUDE HORSESHOE CRAB, OYSTER SHELLS, BUTTERFLY RAY, AND BITS OF WOOD, FIBERGLASS AND HARD AND SOFT PLASTIC.

WELDER BROUGHT ONBOARD TO REPAIR WELDS ON STBD AND PORT DRAGHEAD TEDS. REPAIRS COMPLETED AND TEDS IN GOOD WORKING ORDER.

SEAS ROUGH AND ANCHORAGE ESTABLISH AT 185 W/ LOAD # 196 IN THE HOPPER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	4	15	BOTTLENOSE DOLPHINS

Observer(s) On Duty: ERIC WESTERMAN AND DANA ROSS

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

DAILY REPORT

Date: 4 / 30 / 96 Loads: 196 - 199

Area(s) Worked: STATIONS -2+00 - +20+00

Weather Conditions: WIND S20-25- NW10 ; SKY DRY CLDY-CLEAR; SEAS 4'7' ;

Range of H_2O Temperature: Surface 68° Below Mid-Depth 68°

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DIGGING IS SAND AND SHELL. MATERIAL TAKEN WERE HORSESHOE CRAB, BUTTERFLY RAY, SURFBOARD FIN, AND ALUMINUM CAN.

LEFT ANCHORAGE AT 1900 TO DUMP LOAD 196 WHICH WAS DUG ON 4/29.

ANCHORED B/T 1851 ON 4/29 - 1900 ON 4/30

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	6	BOTTLENOSE DOLPHINS

Observer(s) On Duty: BRETT JOHNSON AND DANA ROSS

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

DAILY REPORT

Date: 5 / 1 / 96 Loads: 197-198

Area(s) Worked: STATIONS -2+00 - +20+00

Weather Conditions: WINDS NNW 10-25; SEAS 1'-5' ROUGH; SKY CLEAR; 62°-68°F

Range of H_2O Temperature: Surface 68°F Below Mid-Depth 68°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DIGGING A MIX OF SAND AND SHELL. SAMPLES TAKEN INCLUDE BUTTERFLY RAY, HORSESHOE CRAB, KEYHOLE URCHIN, AND ETH ALUMINUM CAN, SURFBOARD FIN, AND A SNATCHBLOCK AND TACKLE.

PUMPOUT OF LOAD 198 WAS ABORTED AT 0642 B/C OF ROUGH CONDITIONS AND ANCHORAGE ESTABLISHE AT 0850 IN THE ST. AUGUSTINE INLET.

LOAD 198 WAS DROPPED THROUGH THE HOPPER JUST EAST OF THE HOOKUP SITE AT 0230 AFTER A HULL PENETRATION OCCURRED DURING AN ABORTED HOOKUP AT 0210 ON 5/2/96.

DECISION WAS MADE TO STEAM TOWARD JULLES SHIPYARD FOR REPAIRS AT 0300 5/2/96.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: D. Ross & Brett Johnson

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

WEEKLY SUMMARY

Dates: 4 / 28 / 96 - 5 / 2 / 96 Loads: 193 / 198

Range of H_2O Temperature: Surface 68°-70° Below Mid-Depth 68°-69°

Area(s) Worked: STATIONS -2+00 - +20+00

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

Comments:
- NO TURTLES WERE SAMPLED OR SIGHTED THIS WEEK.
- THE TED'S WERE WORKED ON ON 4/28 AND 4/29 AND ARE IN GOOD WORKING ORDER. THE ANGLE IRON SHIELDS ARE YET TO BE REPLACED THOUGH.
- DIGGING MATERIALS REMAIN MOSTLY FINE SAND w/ SHELL MIX.
- FEW SAMPLES ARE BEING TAKEN AND INCLUDE HORSESHOE CRAB, KEYHOLE URCHIN, BUTTERFLY RAY, AND BITS OF WOOD, FIBERGLASS ALUMINUM, AND STEEL.
-
- BECAUSE OF ROUGH WEATHER AND AN INABILITY TO HOOK UP FOR PUMPOUT THE DREDGE WAS ANCHORED TWICE IN THIS TIME PERIOD. A HULL PENETRATION OCCURRED DURING HOOKUP AT 0210 ON MAY 2 AND THE VESSEL WAS IMMEDIATELY ROUTED TO THE J'VILLE, FL SHIPYARD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	6	27	BOTTLENOSE DOLPHINS

Observers On Duty: ERIC WESTERMAN ; DIANA ROSS, BETTY JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - 'MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 5 / 9 / 96 Loads: 199-201

Area(s) Worked: STATIONS -9+40 → +31+00

Weather Conditions: CALM - 4'; WIND SEA 1-3'; SKY CLEAR PTLY CLDY; TEMP 74-82°F

Range of H_2O Temperature: Surface 78° F Below Mid-Depth 75°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- MATERIAL DIGGING IS A MIX OF FINE SAND TO COURSE CRUSHED SHELLS.
- SAMPLES TAKEN WERE MINIMAL INCLUDING, KEYHOLE URCHINS WERE THE ONLY MARINE SPECIMANS. SOME CLOTH & SCRAP IRON WERE TAKEN ALSO.
- THE DREDGE RETURNED FROM J'VILLE SHIP YARD AND BEGAN DIGGING AT 1104.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	1	BOTTLENOSE DOLPHIN

Observer(s) On Duty: DANA ROSS, LINDA IOLLO

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - 'MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 5 / 10 / 96 Loads: 202-204

Area(s) Worked: STATIONS -9+40 → +31+00

Weather Conditions: SEAS 2-4' ; WINDS SE 1-4' ; SKY, CLEAR - PTLY CLDY ; TEMP 72-79°F

Range of H_2O Temperature: Surface 75°F Below Mid-Depth 75°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- MATERIAL DIGGING MOSTLY FINE SAND W/ MIX OF OF CRUSHED SHELL.
- NO SPECIMENS WERE TAKEN AND ARTIFICIAL ARTICLES INCLUDED SCRAP IRON, WIRE, CLOTH, HARD PLASTIC, AND RUBBER (SHOE SOLE)
- TEDS ARE IN GOOD WORKING ORDER

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: DANA ROSS, LINDA IOCCO

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 5 / 11 / 96 Loads: 205 - 208

Area(s) Worked: STATIONS -9+40 > +31+00

Weather Conditions: WINDS SE/E/SE 4-10 ; SEAS 2-5' ; SKY PTLY CLDY ; 72°-78°F

Range of H_2O Temperature: Surface 75°F Below Mid-Depth 75°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- MATERIAL DIGGING MOSTLY FINE SAND W/ SILTY MIX.
- SPECIMENS TAKEN INCLUDE HORSESHOE CRAB; BUTTERFLY RAY, AND SHARK PARTS THROWN OVERBOARD BY INBOUND FISHING VESSEL.
- WOOD, WIRE, AND ALUMINUM CANS WERE ALSO PICKED UP.

TEDS REMAIN IN GOOD WORKING ORDER BUT ANGLE IRON LEADING EDGES BEGINNING TO SHOW INCREASE IN WEAR.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: DANA ROSS & LINDA IOCCO

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

DAILY REPORT

Date: 5 / 12 / 96 Loads: 209-213

Area(s) Worked: -9+40 > +31+00

Weather Conditions: WIND - W/N/E CALM-10KNOTS; SEA - SE 1-3' SWELLS; SKY CLEAR - PTLY CLOUDY; TEMP 70-8

Range of H_2O Temperature: Surface 75°F Below Mid-Depth 75°F

Condition of all screening apparatus: GOOD; PORT DEFLECTOR WELDED; SUPPORT BRACKETS WELDED ON STBD DEFLECTOR

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

Comments (type of material being dredged, biological specimens, etc.):

- DREDGED MATERIAL → FINE SAND + SMALL SHELLS
- SPECIMENS TAKEN INCLUDED MOSTLY BUTTERFLY RAYS, DISCARDED SHARK HEADS + ENTRAILS
- ALSO PICKED UP CLOTH, CARPET SCRAPS, BURLAP, MONO FISHING LINE, PLASTIC MESH

- SCREENING ALL IN GOOD ORDER, MINOR REPAIRS MADE TO EACH TED
- SHIP AT ANCHOR JUST OVER 2 HOURS DUE TO WEATHER CONDITIONS

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	11	SEEN IN + OUT OF CUT (BOTTLENOSE DOLPHIN)
Cc	1	1	SURFACED 2X BEFORE DIVING (LOGGERHEAD TURTLE)

Observer(s) On Duty: DANA ROSS, LINDA IOCCO

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

WEEKLY SUMMARY

Dates: 5 / 9 / 96 - 5 / 12 / 96 Loads: 199 - 213

Range of H_2O Temperature: Surface 75°F Below Mid-Depth 75°F

Area(s) Worked: STATIONS -9+40 → -31+00

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

Comments:
- NO TURTLES SALVAGED THIS WEEK
- MINOR REPAIRS MADE TO BOTH TEDS → GOOD, WORKING ORDER
- STILL DIGGING FINE SAND + SHELLS
- SPECIMENS TAKEN INCLUDE KEYHOLE URCHINS, HORSESHOE CRABS, COWNOSE RAYS, SHARK PARTS DISCARDED BY FISHERMEN
- GARBAGE PICKED UP: CLOTH SCRAP IRON, WIRE, HARD PLASTIC, RUBBER (SHOE SOLE), WOOD, ALUMINUM CANS, BURLAP, CARPET SCRAPS, PLASTIC MESH, MONO FISHING LINE
- SHIP AT ANCHOR DUE TO ROUGH WINDS (~2 HOURS) EARLY ON MAY 12

* WEEK = THURSDAY TO SUNDAY → DREDGE RETURNED FROM JACKSONVILLE SHIPYARD + BEGAN DIGGING @ 1104 MAY 9

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	12	BOTTLENOSE DOLPHINS AROUND LOADING STATIONS
Cc	1	1	LOGGERHEAD TURTLE SURFACED FOR BREATH (2X)

Observers On Duty: DAVE ROSS, LINDA ZOCCO

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

DAILY REPORT

Date: Sunday 05 / 12 / 96 Loads: _____

Area(s) Worked: _____

Weather Conditions: _____

Range of H_2O Temperature: Surface _____ Below Mid-Depth _____

Condition of all screening apparatus: _____

Are there incidents involving endangered or protected species? Yes_____ No_____

Comments (type of material being dredged, biological specimens, etc.): _____

Report turned in and included on previous week - May 5-11 - Should have been reported on this week May 12-18

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Dana Ross, Linda Iocco

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

DAILY REPORT

Date: Monday 5 / 13 / 96 Loads: 214 – 216

Area(s) Worked: -9+40 → +31+00

Weather Conditions: CLEAR SKIES; GOOD VISIBILITY; SEAS SE (1-3 KNOTS); E WIND; 70-80°F

Range of H_2O Temperature: Surface 75° F Below Mid-Depth 75° F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- NO TURTLES SAMPLED
- BIOLOGICAL SAMPLES: KEYHOLE URCHIN, BUTTERFLY RAY, SHELLS
- GARBAGE SAMPLES: SCRAP IRON, ROPE, PLASTIC MAT (HARD), WIRE, WOOD (FIBER BOARD)
- STILL DREDGING SAND + SHELLS; DISCHARGES IN GOOD COND.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C. SAKAS, L. IOCCO

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

DAILY REPORT

Date: Tuesday 05 / 14 / 96 Loads: 217-218

Area(s) Worked: -9+40 → +31+00

Weather Conditions: Changed from clear skies, 1-3' Seas to 20 knots NE wind, 3-5' seas partly cloudy w/ rain

Range of H_2O Temperature: Surface 75°F Below Mid-Depth

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

- No turtles sampled
- Biological samples: Butterfly ray, Keyhole urchin, Various shells
- Garbage samples: Scrap iron, Wood (fiberboard)
- Dredging clean sand w/ a few shells; discharges in good condition
- Dredge anchored at ~1300 due to 3-5' Seas & 20 knots NE wind

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	9	Tt seen in channel & at dumpsite

Observer(s) On Duty: C. Sakas, P. Westerman

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

DAILY REPORT

Date: Wednesday 05 / 15 / 96 Loads: None

Area(s) Worked: -9+40 → -31+00

Weather Conditions:

Range of H_2O Temperature: Surface _____ Below Mid-Depth _____

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Fuel run to Fernandina - No dredging activity

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	4	Tt observed just off of starboard bow while at fueling dock

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

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: Thursday 05/16/96 Loads: Agitation

Area(s) Worked: -9+40 → -31+00

Weather Conditions: Clear, NE winds at 10-15 knots, Seas 2-3'

Range of H_2O Temperature: Surface _____ Below Mid-Depth _____

Condition of all screening apparatus: _____

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

Comments (type of material being dredged, biological specimens, etc.):

- No turtles sampled
- Biological samples: Shells, bryozoans, brown algae
- Garbage samples: Pieces of wood & rope
- Dredging dark sand w/high percentage of shell

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	14	In ICW of St. Augustine Inlet

Observer(s) On Duty: Cathy Sakas, Peter Werkman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - KINGS BAY Entrance Channel
USACE, Jacksonville District • Winter 1996

DAILY REPORT

Date: Friday 05 / 17 / 96 Loads: Agitations + Load 219

Area(s) Worked: Agitations inside ICW markers 1-2A & bar, Load on bar

Weather Conditions: Calm seas, Clear skies, Clear visibility,

Range of H_2O Temperature: Surface 75°-77° F Below Mid-Depth 75°-77°F

Condition of all screening apparatus: good

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

Comments (type of material being dredged, biological specimens, etc.):

- No turtles taken
- Biological samples: 2 butterfly rays (one returned alive), shells, horseshoe crab
- Garbage samples: Pieces of wood, shoe insole
- Agitations on bar produced fine white sand w/no debris or large shells
- Agitations inside inlet ICW markers 1-2A produced sand w/lots of shells and wood pieces
- Load 219 dredged on bar produced fine sand w/virtually no debris

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	1	Seen between ICW marker 1 & 2 inside inlet

Observer(s) On Duty: C. Salcas, P. Westerman

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

DAILY REPORT

Date: Saturday 05 / 18 / 96 Loads: 220 - 222

Area(s) Worked: -9+40 → -31+00 North Shoal, South Shoal

Weather Conditions: Clear to Overcast in the PM, Seas 2-4', E 10-12 knot winds, Good visibility

Range of H_2O Temperature: Surface 77°F Below Mid-Depth 77°F

Condition of all screening apparatus: Good, repairs made on Stbd Draghead Deflector

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

Comments (type of material being dredged, biological specimens, etc.):

- No turtles samples
- Biological samples: Butterfly rays (2), shells, live hermit crabs (~100) observed on top of sand in Hold
- No garbage samples
- Loads produced fine, clear sand w/ small sparse shells

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	5	Observed on shoal at St. Augustine Inlet

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

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

WEEKLY SUMMARY

Dates: 05/12/96 - 05/18/96 Loads: 214-222

Range of H_2O Temperature: Surface 75°-77° F Below Mid-Depth 75°-77°F

Area(s) Worked: Agitations on ICW Markers 1-2A inside St. Augustine Inlet; Loads dredged on North & South Shoals at Inlet Entrance

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

Comments:

- No turtles sampled
- Minor repairs made to Stdb Draghead Deflector
- Dredging fine sand & shells
- Biological samples: Butterfly rays, shells, live hermit crabs (~100) observed on surface of sand in hold, horse shoe crab, bryozoans, brown algae Keyhole urchin
- Garbage samples: Pieces of wood, shoe insole, pieces of rope, scrap of iron
- Dredge anchored on 05/14/96 ~1300 due to rough seas
- Fuel run on 05/15/96 to Fernandina.
- Agitating 05/16 - 05/17 due to beach renourishment discharge pipe displacement
- Dredging fine sand w/ sparse small shells

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	11	33	Bottlenose dolphins (T+) observed at dumpsite, all agitation & dredging sites

Observers On Duty: Cathy Sokas, Peter Westerman, Linda Iocco

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

DAILY REPORT

Date: SUNDAY 5 / 19 / 96 Loads: Agitation + loads 223 - 227

Area(s) Worked: - 9 + 40 → +31 + 00

Weather Conditions: CLEAR TO OVERCAST; WINDS E - SE 5-20 KNOTS; SEAS 1-4'

Range of H_2O Temperature: Surface 74° - 75° F Below Mid-Depth 74° - 75° F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- NO TURTLES SAMPLED
- BIOLOGICAL SAMPLES; SOUTHERN STINGRAY (2), BUTTERFLY RAY (1); HORSESHOE CRAB DEAD (1)
- GARBAGE SAMPLES: ENGINE PART
- AGITATIONS PRODUCED FINE WHITE SAND - NO DEBRIS
- DREDGING PRODUCED FINE WHITE SAND - CLEAN
- SCREENS + T.E.D.'S INTACT AND IN GOOD WORKING ORDER

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	12-18	Tt SEEN IN CHANNEL

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN, CATHY SAKAS

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

DAILY REPORT

Date: MONDAY 5 / 20 / 96 Loads: Agitate + loads 228 - 230

Area(s) Worked: -9 + 40 → +31 + 00

Weather Conditions: CLEAR TO OVERCAST ; WINDS SE/W/S 4-14 KNOTS ; SEAS 1-2'

Range of H_2O Temperature: Surface 75°-76° F Below Mid-Depth 74°-75° F

Condition of all screening apparatus: GOOD

Are there incidents involving endangered or protected species? Yes_____ No_____

Comments (type of material being dredged, biological specimens, etc.):

- NO TURTLES SAMPLED
- BIOLOGICAL SAMPLES: SEA PORK
- GARBAGE SAMPLES: FIBERGLASS, GAUGE
- AGITATIONS PRODUCED FINE SAND
- DREDGE PRODUCED FINE WHITE SAND - NO DEBRIS
- SCREENS AND T.E.D.'S IN GOOD WORKING ORDER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: TUESDAY 5 / 21 / 96 Loads: Agitate + loads 231 - 233

Area(s) Worked: -9 +40 → +31 +00

Weather Conditions: OVERCAST WITH SLIGHT RAINS ; WINDS S|SE 1-10 KNOTS ; SEAS 1-2'

Range of H_2O Temperature: Surface 75° F Below Mid-Depth 75°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- NO TURTLES SAMPLED
- BIOLOGICAL SAMPLES: SOUTHERN STINGRAY (2) ; HORSESHOE CRAB (2)
- NO GARBAGE SAMPLES
- AGITATIONS PRODUCED FINE WHITE SAND
- DREDGE MATERIAL FINE WHITE SAND - NO DEBRIS
- SCREENS AND T.E.D.S ARE INTACT, IN GOOD WORKING ORDER AND FULLY FUNCTIONAL

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: WEDNESDAY 5 / 22 / 96 Loads: Agitation + loads 234-237

Area(s) Worked: -9 + 40 → +30 + 00

Weather Conditions: CLEAR TO PARTLY CLOUDY; WINDS N 1-6 KNOTS; SEAS 2-5'

Range of H_2O Temperature: Surface 75° F Below Mid-Depth 75° F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- NO TURTLES SAMPLED
- BIOLOGICAL SAMPLES: SOUTHERN STINGRAY (1); WHELK
- GARBAGE SAMPLES: WOOD
- AGITATIONS PRODUCED FINE WHITE SAND
- DREDGE MATERIAL WAS FINE TO SILTY WITH SPARSE SMALL SHELLS.
- SCREENS, T.E.D.'S ARE FULLY FUNCTIONAL AND IN GOOD WORKING ORDER

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	8	NORTH OF ICW MARKER # 2

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

THURSDAY

Date: 5 / 23 / 94 Loads: Agitation + loads 238 - 241

Area(s) Worked: -9 + 40 → + 30 + 00

Weather Conditions: SKIES CLEAR TO PARTLY CLOUDY ; WINDS SE 1 - 10 KNOTS ; SEAS 1-3'

Range of H_2O Temperature: Surface 76° F Below Mid-Depth 75° F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- NO TURTLES SAMPLED
- BIOLOGICAL SAMPLES : BUTTERFLY RAY (2) , HORSE SHOE CRAB (1) ; WHELK (1)
- GARBAGE SAMPLES : WOOD
- AGITATIONS PRODUCED FINE WHITE SAND
- DREDGE MATERIAL FINE WHITE SAND WITH SPARSE SMALL SHELLS
- SCREENS AND T.E.D.S ARE IN GOOD WORKING ORDER AND FULLY FUNCTIONAL

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: BRETT JOHNSON , PETER WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

FRIDAY
Date: 5 / 24 / 96 Loads: Agitation + LOADS 242-245
Area(s) Worked: - 9+40 → +30 +00
Weather Conditions: SKIES CLEAR; WINDS E/SE 1-5 KNOTS ; SEAS CALM 1-2'
Range of H_2O Temperature: Surface 77° F Below Mid-Depth 77° F
Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

No turtles were sampled today. Biological samples included one horseshoe crab and one southern stingray. Sightings of bottlenose dolphin as well as schools of cownose rays. No garbage samples were taken.

Dredge material has been fine, clean white sand with some small sparse shells, no debris. Agitations on Northside of channel during high tide produced fine sand, no debris.

Screens and T.E.D.'S in good working order.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	10	BOTTLENOSE DOLPHINS
Rb	2	40	COWNOSE RAYS

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - 'MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: SATURDAY 5 / 25 / 96 Loads: Agitation + LOADS 246 - 249

Area(s) Worked: -9+40 > 30+00

Weather Conditions: CLEAR TO PARTLY CLOUDY ; WINDS NE/SE 0-10 KNOTS ; SEAS 1-2'

Range of H_2O Temperature: Surface 78° F Below Mid-Depth 77° F - 78°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

NO TURTLES WERE SAMPLED TODAY. BIOLOGICAL SPECIMENS INCLUDED ONE SOUTHERN STINGRAY AND ONE BUTTERFLY RAY. NO GARBAGE SAMPLES WERE TAKEN.

DREDGE MATERIAL HAS BEEN CLEAN, FINE, WHITE SAND WITH SOME SMALL SHELLS - NO DEBRIS. Agitations on NORTHSIDE OF CHANNEL DURING HIGH TIDE.

SCREENS AND T.E.D.S ARE IN GOOD WORKING ORDER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

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

WEEKLY SUMMARY

Dates: 05 / 19 / 96 - 05 / 25 / 96 Loads: 223 - 249

Range of H_2O Temperature: Surface 74° - 78° F Below Mid-Depth 74° - 78° F

Area(s) Worked: STATIONS - 9 + 40 to + 30 + 00

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

Comments: NO TURTLES WERE SAMPLED THIS WEEK AND NONE WERE SIGHTED.

THE SCREENING HAS STAYED INTACT AND IN GOOD WORKING ORDER. THE T.E.D.'S ARE INTACT, IN GOOD WORKING ORDER AND FULLY FUNCTIONAL.

SAMPLES THIS WEEK HAVE BEEN SMALL IN QUANTITY. SAMPLES HAVE MAINLY CONSISTED OF HORSESHOE CRABS, BUTTERFLY AND SOUTHERN RAYS, AND ONLY A FEW GARBAGE SAMPLES INCLUDING AN ENGINE PART, GLOVE, WOOD, AND FIBERGLASS PIECES. SIGHTING A FEW BOTTLENOSE DOLPHINS AND SCHOOLS OF COWNOSE RAYS.

Agitations HAVE BEEN EVERYDAY DURING HIGH TIDE ON THE NORTHSIDE OF CHANNEL. DREDGE MATERIAL HAS BEEN CLEAN, FINE WHITE SAND WITH SOME SMALL SPARSE SHELLS.

WEATHER CONDITIONS HAVE BEEN GOOD AND EVERYTHING HAS BEEN RUNNING SMOOTHLY.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	5	36	BOTTLENOSE DOLPHINS (Tt)
Rb	2	40	COWNOSE RAYS

Observers On Duty: BRETT JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: SUNDAY 5 / 26 / 96 Loads: Agitation + LOADS 250 - 251

Area(s) Worked: -9+40 → +30+00

Weather Conditions: SKIES PARTLY CLOUDY / HAZY ; WINDS ESE 1-10 KNOTS ; SEAS 1-2'

Range of H_2O Temperature: Surface 79° F Below Mid-Depth 79° F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

NO TURTLES WERE SAMPLED TODAY AND NONE WERE SIGHTED.

THE SCREENING HAS STAYED INTACT AND IN GOOD WORKING ORDER. THE T.E.D.'S ARE INTACT AND FULLY FUNCTIONAL. DREDGING WAS SHUT DOWN FROM 0926 TO 1353 DUE TO TRUNNION SLIDE BAR BEING JAMMED. AT ANCHOR 1102. PROBLEM WAS RESOLVED AND AGITATION ON NORTHSIDE OF CHANNEL BEGAN AT 1403. DREDGE MATERIAL HAS BEEN CLEAN, FINE, WHITE SAND WITH SOME SMALL SPARSE SHELLS AND LITTLE DEBRIS.

BIOLOGICAL SPECIMENS INCLUDED 2 SOUTHERN STINGRAYS. WARMER WATER HAS BROUGHT OUT MORE STINGRAYS. GARBAGE SAMPLES INCLUDED ONE STEEL CABLE AND A METAL BAND FROM 50 GALLON DRUM.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	6	AT PUMP SITE EAST OF STERN

Observer(s) On Duty: PETE WESTERMAN, BRETT JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - 'MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

MONDAY

Date: 5 / 27 / 96 Loads: 252 - 255

Area(s) Worked: STATIONS -9 +40 - + 30 +00

Weather Conditions: PARTLY CLOUDY ; WINDS ESE

Range of H_2O Temperature: Surface 79° F Below Mid-Depth 79° F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

NO TURTLES WERE SAMPLED TODAY NOR WERE ANY SIGHTED. BIOLOGICAL SPECIMENS INCLUDED ONE SALTWATER CATFISH, ONE SOUTHERN STINGRAY AND SOME RAY PARTS. WARMER WATER HAS BROUGHT MORE STINGRAYS OUT. GARBAGE SAMPLES CONSISTED OF WIRE CABLE, STEEL CABLE, AND DRIFTWOOD.

THE SCREENING HAS STAYED INTACT AND IN GOOD WORKING ORDER. THE T.E.D.'S ARE INTACT, FULLY FUNCTIONAL AND IN GOOD WORKING ORDER. DREDGE MATERIAL HAS BEEN FINE, CLEAN, WHITE SAND.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: BRETT JOHNSON, PETER WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: TUESDAY 05 / 28 / 96 Loads: 256-258

Area(s) Worked: -9 +40 → +30 +00

Weather Conditions: PTLY CLDY, WINDS NW 1-3 → SE 10-15 KTS SEAS 1'-3'

Range of H_2O Temperature: Surface 76-79°F Below Mid-Depth 76°-78°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): MATERIAL DREDGED IS FINE WHITE SAND. THE ONLY BIOLOGICAL SPECIMENS TAKEN WERE A WHELK FRAGMENT, AND AN UNIDENTIFIED FLOUNDER IN THE HOPPER; AN ANCHOR WAS SAMPLED IN THE STBD DRAGHEAD ON LOAD 256. ALL EQUIPMENT, TEDS & SCREENING IS FULLY FUNCTIONAL... OBSERVER PETER WESTERMAN REPLACED BY CHRIS MASON @ 0730... DURING LOAD 258 SEVERAL INTENSE THUNDERSTORMS DELAYED DREDGING FROM 1350 - 1555.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	9	6 ANIMALS W OF BOUY 4, 3 100 YDS NW OF SEA BOUY

Observer(s) On Duty: PETER WESTERMAN, BRETT JOHNSON, CHRIS MASON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

WEDNESDAY
Date: 05/29/96 Loads: 259

Area(s) Worked: -9+40 -> +30+00

Weather Conditions: PTLY CLDY WINDS E 1-3KTS SEAS CALM

Range of H_2O Temperature: Surface 76°F Below Mid-Depth 75°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): MATERIAL FINE WHITE SAND, AND A BUTTERFLY RAY WAS SMPLD IN PORT AFT LANDER. MERMENTAU DEPARTS CHANNEL FOR FERNANDINA @ 0433 ARRIVING 1110 TO TAKE ON FUEL & WATER. FUELING COMPLETE @ 1445, ARRIVED ST AUGUSTINE ENTRANCE 2147, COMMENCING DREDGING LOAD 260 2222 AFTER REPAIRING A HYDRAULIC LEAK ON STBD WINCH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE			

Observer(s) On Duty: BRETT JOHNSON, CHRIS MASON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

THURSDAY

Date: 05 / 30 / 96 Loads: 260 - 262

Area(s) Worked: -9 + 40 + + 30 + 00

Weather Conditions: SKIES: HAZY + PTLY CLOUDY; WINDS VARIABLE 1-10 KNOTS; SEAS 2-7'

Range of H_2O Temperature: Surface 76-78° F Below Mid-Depth 76° - 77.5° F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):
NO TURTLES WERE SAMPLED TODAY, HOWEVER ONE WAS SIGHTED.
DREDGE MATERIAL CLEAN FINE, WHITE SAND, ONLY BIOLOGICAL SAMPLE WAS A BUTTERFLY RAY, NO GARBAGE SAMPLES WERE TAKEN TODAY.
ALL EQUIPMENT, T.E.D.'S AND SCREENING INTACT AND FULLY FUNCTIONAL
DOWNTIME [illegible] 30 - [illegible] [illegible] [illegible] [illegible],
[illegible] [illegible] [illegible] [illegible] [illegible] TO
[illegible].

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	2	4	BOTTLENOSE DOLPHIN IN CHANNEL AND INTERSECTION OF ICW & CHANNEL
Cc	1	1	LOGGERHEAD SEATURTLE SURFACED 30 SECONDS THEN DOVE 50 FT. EAST OF STERN AT PUMP OUT SITE

Observer(s) On Duty: BRETT JOHNSON, CHRIS MASON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: FRI 05/31/96 Loads: 263 - 266

Area(s) Worked: -9+40 → +31+00

Weather Conditions: CLOUDY, WIND E→NE 17-20KTS SEAS 4-7'

Range of H_2O Temperature: Surface 76°-78° F Below Mid-Depth

Condition of all screening apparatus: GOOD.

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

Comments (type of material being dredged, biological specimens, etc.): WEIGHED ANCHOR AT 0800, RAN INSIDE TO ICW TO TAKE ON SUPPLIES. DIGGING BY 0923. BACKING & FILLING WITH COARSE SAND & SHELL MATERIAL BEING DUMPED IN CHANNEL OVERDEPTH AREAS. BIOLOGICAL SPECIMENS SAMPLED INCLUDE WHELK FRAGMENTS, SOUTHERN STINGRAY. NON-BIOLOGICS WERE A CRAB TRAP, LINE HOSE, AND CABLE. ANCHORED AT 2051 FOR WEATHER, 1/2 MI E OF SEA BUOY.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	5	38-40	SEVERAL SMALL GROUPS OF 2-4, AND 2 LARGE GROUPS OF 10 & 20. IN & AROUND CHANNEL AND ICW INTERSECTION.

Observer(s) On Duty: CHRIS MASON, BRETT JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

SAT
Date: 6 / 01 / 96 Loads: 267

Area(s) Worked: -9+40 → +31+00

Weather Conditions: PTLY CLOUDY WIND ENE 10-12 KTS TEMP 77° (0940)

Range of H_2O Temperature: Surface 76.5° F Below Mid-Depth

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): MATERIAL OF SHELL & COARSE SAND BOTTOM DUMPED IN CHANNEL OVERDEPTH. ANCHORED FROM 1053 ON, AWAITING CORPS PERMISSION TO DREDGE. BIOLOGIC SPECIMENS WERE A BUTTERFLY RAY, WHELK, AND WOOD. SOME ROCKS ALSO SAMPLED.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C MASON B JOHNSON

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

WEEKLY SUMMARY

Dates: 5/26/96 - 6/01/96 Loads: AGITATION & LOADS 250-267

Range of H_2O Temperature: Surface 76-79°F Below Mid-Depth 75-79°F

Area(s) Worked: -9+40 → +30+00, -9+40 → +31+00

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

Comments: AGITATION WAS PERFORMED AT HIGH TIDE ON 5-26, DREDGING DELAYED FROM 0926 TO 1353 DUE TO TRUNION PROBLEM. TEDS AND SCREENING ALL IN GOOD WORKING ORDER. ON 5-28 AT 0730, PETER WESTERMAN WAS REPLACED BY CHRIS MASON. DREDGING DELAYED ON 5-28 DUE TO THUNDERSTORMS FROM 1350-1555. ON 5-29, MERMENTAU RUNS TO FERNANDINA TO TAKE ON FUEL & WATER, RETURNS TO ST AUGUSTINE AT 2222 TO PIC LOAD 260 AFTER REPAIRING A HYDRAULIC LEAK ON STBD WINCH. FIRST DOWNTIME ON 5-30 FROM 1830-2100 WAS TO REPAIR STBD TRUNION AND BAD WEATHER LATER IN DAY DELAYS DREDGING, AND MERMENTAU ANCHORS UP @ 2130; WEIGHED ANCHOR AT 0800 TO TAKE ON SUPPLIES INSIDE CHANNEL. ANCHORED AGAIN AT 2051 FOR WX (5-31). ANCHORED 6-1 @ 1053, AWAITING CORPS PERMISSION TO DREDGE. BIOLOGICAL SPECIMENS SAMPLED WERE SOUTHERN STINGRAYS, BUTTERFLY RAYS, WHELKS, WOOD, A FLOUNDER, A CATFISH. A SCHOOL OF COWNOSE RAYS WAS OBSERVED NEAR THE BOAT (NOT SMPLD). ALSO SAMPLED WAS CABLE, AN ANCHOR, A CRAB TRAP, LINE, AND HOSE. MATERIAL IN CHANNEL IS FINE WHITE SAND, INSIDE YIELDED COARSE SAND MADE UP OF TINY SHELL FRAGMENTS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	11	57-59	IN AND AROUND CHANNEL, IN GROUPS OF 2-4 AND UP TO LARGE GROUPS OF 10-20, PROBABLY FEEDING IN THIS & ICW AREA
Cc	1	1	LOGGERHEAD SURFACED 30 SECONDS THEN DIVE. 50 FT EAST OF STERN @ DMP OUT SITE.

Observers On Duty: B JOHNSON, C MASON, P. WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

SUNDAY
Date: 06/02/96 Loads: 268-273

Area(s) Worked: -9+40 → +31+00

Weather Conditions: PTLY CLDY → CLR, WINDS GEN. EAST NE 10-21KTS SEAS 2-5'

Range of H_2O Temperature: Surface 76° - 77.5°F Below Mid-Depth

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): WEIGHED ANCHOR AT 0830 FOR DREDGING INSIDE. MATERIAL IS TINY SHELL FRAGMENTS & COARSE SAND, WITH OYSTER SHELLS, BEING DUMPED IN CHANNEL OVERDEPTH AREAS. BIOLOGICAL SPECIMENS SMPLD WERE WHELKS AND OTHER SNAIL AND BIVALVE SHELLS, A SOLE, AND DRIFTWOOD. TRASH SAMPLED INCLUDED ALUMINUM CANS, WIRE, GLASS, CARPET, NYLON LINES, AND PLASTICS... ANCHORED FOR EVENING AT THE USUAL ANCHORAGE, ABOUT ½ MILE EAST OF THE SEA BUOY. WATER COLUMN TEMPERATURE NOT TAKEN SINCE PUMPOUT ENDED SINCE A THERMOMETER CAN NOT BE KEPT AT DEPTH WHILE SHIP IS IN MOTION IN CHANNEL. FIRE & BOAT DRILL HELD @ NOON.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: B JOHNSON, C MASON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *MERMENTAU* - MERMENTAU Entrance Channel ST AUGUSTINE

USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 06 / 03 / 96 Loads: 274 - 275

Area(s) Worked: -9+40 → +31+00 (274) -9+40 → +30+00 (275)

Weather Conditions: PTLY CLDY, WINDS NE 4-16KTS SEAS 1-3'

Range of H_2O Temperature: Surface 77°F (1605) Below Mid-Depth 77°F (1615)

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): DIGGING INSHORE ON LOAD 274 YIELDED SHELL FRAGMENT & COARSE SAND. SEVERAL WHELKS WERE SAMPLED AS WELL AS RUBBER HOSE, ALUMINUM CANS, CARPET & SHOE. MATERIAL DUG OFF SHORE ON LOAD 275 WAS FINE WHITE SAND, NO SAMPLES. LOAD 274 DUMPED IN CHANNEL OVERDEPTH. LOAD 275 PUMPED TO BEACH. DROPPED ANCHOR AT 1724 TO WAIT OUT FOUL SEA CONDITIONS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C. MASON, B. JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 06/04/96 Loads: 276-278

Area(s) Worked: -9+40 → +30+00

Weather Conditions: CLR WIND E, 5-12 KT SEAS 2'-4'

Range of H_2O Temperature: Surface 78-79°F Below Mid-Depth 77.5-78.5°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): MATERIAL WAS FINE WHITE SAND WITH SOME SHELLS, BIOLOGICS SMPLD WERE WHELK SHELLS, WOOD, OYSTER SHELLS. OTHER SAMPLES WERE WIRES IN PORT OVERBOARD ON LOAD 276. ANCHOR WAS WEIGHED FOR DIGGING 0657 BUT HEAVY GROUND SWELL PUSHES MERMENTAU ONTO A SHOAL AND STARBOARD PROP IS DAMAGED. AFTER PUMPOUT OF LOAD 278, MERMENTAU RUNS TO ATLANTIC MARINE IN JACKSONVILLE TO HAVE PROP CHANGED OUT. ARRIVED JACKSONVILLE 0250 6-5.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C. MASON, B. JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - 'MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 06/05/96 Loads: — NO DIG

Area(s) Worked: —

Weather Conditions: —

Range of H_2O Temperature: Surface — Below Mid-Depth —

Condition of all screening apparatus: —

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

Comments (type of material being dredged, biological specimens, etc.): ARRIVED JACKSONVILLE 0250, SHIPYARD WORKING ON STBD PROP. DEPARTED APPX 2330 FOR ST AUGUSTINE CHANNEL.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
—			

Observer(s) On Duty: C. MASON, B. JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 06 / 06 / 96 Loads: NO DIG

Area(s) Worked: –

Weather Conditions: –

Range of H_2O Temperature: Surface – Below Mid-Depth –

Condition of all screening apparatus: –

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

Comments (type of material being dredged, biological specimens, etc.): ARRIVED ST AUGUSTINE 0430. TWENTY MINUTES INTO THE 1ST DIG, VIBRATION OCCURRED. CREW TROUBLESHOOTS PORT SCREW FROM 0450 - 0900. CREW CHANGE (CAPT, CHEF, COOK) AT 0830.

0900 - MERMENTAU ANCHORS IN CHANNEL

1300 - DIVER INSPECTS PORT WHEEL, MERMENTAU WILL HAVE TO RETURN TO SHIPYARD; OBS. BRETT JOHNSON DEPARTS.

2010 - ARRIVED ATLANTIC MARINE, JACKSONVILLE FOR REPAIRS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C. MASON B. JOHNSON

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 06 / 07 / 96 Loads: NO PIG

Area(s) Worked: —

Weather Conditions: —

Range of H_2O Temperature: Surface — Below Mid-Depth —

Condition of all screening apparatus: —

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

Comments (type of material being dredged, biological specimens, etc.): IN JACKSONVILLE, ATLANTIC MARINE, FOR REPAIRS. MERMENTAU SHOVES OFF, BOUND FOR ST AUGUSTINE CHANNEL, AT 2000. IN AM, TREY McDONALD BOARDS AS NEW OBSERVER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C. MASON, T. McDONALD

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

SAT
Date: 06/08/96 Loads: 279-281

Area(s) Worked: -90+40 → +30+00

Weather Conditions: WIND SE→SW 5-10KTS SEAS 1'-4' SKIES CLR.

Range of H_2O Temperature: Surface 79-81°F Below Mid-Depth 79-81°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): ARRIVED ST AUGUSTINE 0016 TO DIG LOAD 279. MATERIAL DREDGED IS FINE WHITE SAND. BIOLOGICAL SPECIMENS WERE SANDDOLLARS, OYSTER SHELLS. SOME SMALL PIECES OF WOOD DEBRIS IN HOPPER. NO REFUSE SAMPLED. LOAD 282 DREDGED FROM 1602-1648 UNTIL WEATHER IN THE FORM OF STRONG ONSHORE WINDS DELAYS WORK AND MERMENTAU ANCHORS IN CHANNEL. THIS LOAD NOT WORKED AGAIN UNTIL 6-9.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE			

Observer(s) On Duty: C. MASON, T. MCDONALD

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

WEEKLY SUMMARY

Dates: 06/02/96 - 06/08/96 Loads: 268 - 281

Range of H_2O Temperature: Surface 76 - 81° F Below Mid-Depth 77 - 81° F

Area(s) Worked: -9+40 → +30+00

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

Comments: FIRE & BOAT DRILL HELD AT NOON 6-2, MERMENTAU ANCHORS OFFSHORE 6-2 & 6-3 DUE TO FOUL WIND & SEA CONDITIONS IN THE AFTERNOONS. ON 6-4 A HEAVY GROUND SWELL PUSHED MERMENTAU ONTO A SHOAL AND THE STARBOARD PROP WAS DAMAGED AND THE SHIP IS RUN TO ATLANTIC MARINE IN JACKSONVILLE ARRIVING 0250 ON 6-5 FOR REPAIRS. DEPARTED JAX 2330, ARRIVING ST AUGUSTINE CHANNEL 0430. TWENTY MINUTES INTO THE 1ST DIG, A VIBRATION OCCURS IN PORT SCREW, WHICH IS TROUBLESHOT FROM 0450 - 0900. CAPT., CHIEF, COOK CREW CHANGE AT 0830. AFTER ANCHORING, A DIVER INSPECTS PORT PROPELLER AND INDICATES THAT IT HAS THROWN SEVERAL SECTIONS AND WILL NEED TO BE CHANGED OUT. MERMENTAU ARRIVES ATLANTIC MARINE @ 2010 FOR REPAIRS, DEPARTING 2000 6-7 NOW WITH 2 NEW PROPS. PRIOR TO DEPARTING, TREY MC DONALD REPLACES BRETT JOHNSON AS ENDANGERED SPECIES OBSERVER. ARRIVED ST AUG. 0016 6-8 FOR DREDGING AS USUAL. STRONG ONSHORE WIND & SWELL, PLUS LOW TIDE CAUSES DREDGE TO HAVE TO ANCHOR AT 1648. DREDGED MATERIAL IS FINE WHITE SAND, BIOLOGICS ARE SANDDOLLARS, OYSTER SHELLS, WOOD, WHELK SHELLS; TRASH ITEMS INCLUDE WIRE, ALUM. CANS, GLASS, CARPET, LINE, PLASTIC. ALL TED DEVICES IN GOOD WORKING CONDITION.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE			

Observers On Duty: C. MASON, B. JOHNSON, T. MC DONALD

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

SUN
Date: 06/09/96 Loads: 282-284

Area(s) Worked: -9+40 → +30+00

Weather Conditions: CLR, SCT T-STORMS, WIND WNW-SE TO 10KTS SEAS TO 4'

Range of H_2O Temperature: Surface 78-79°F Below Mid-Depth 78-79°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): ANCHORED FOR WEATHER 1648 6-8, WEIGHED ANCHOR 0457 6-9 TO RESUME DREDGING. DREDGE MATERIAL A COMBINATION OF FINE WHITE SAND W/ MEDIUM GRAIN BROWN SAND COMPOSED OF TINY SHELL FRAGMENTS INTERMIXED. BIOLOGICAL SPECIMENS SAMPLED WERE OYSTER SHELLS, SAND DOLLARS, WOOD, AND THE CARCASS OF A SOUTHERN STARGAZER. REFUSE SAMPLED INCLUDED FIBERGLASS, WIRE, FISHING LINE, ALUMINUM CANS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	8	BREACHING & SWIMMING AROUND CHANNEL MARKERS #4 & 2. SEEN ALSO ON PUMPOUT RUN.

Observer(s) On Duty: C. MASON, T. MCDONALD

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

MON
Date: 06 / 10 / 96 Loads: 285 - 287

Area(s) Worked: - 9 +40 → +30 +00

Weather Conditions: CLR → CLOUDY, WIND NW → SW TO 9KTS, SEAS 2-4'

Range of H_2O Temperature: Surface 77°F Below Mid-Depth 77°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): MATERIAL FINE WHITE SAND WITH SOME SHELLS, LOAD 286 STBD DRAGHEAD LIFTED FROM 0956 - 1030 TO REPAIR FORWARD CABLE. PORT DRAGHEAD RAISED FROM 1100 - 1115 FOR REPAIRS. TREY MC DONALD REPLACED BY SARA SHAPIRO 0730. AGITATION WAS PERFORMED ON LOAD 287 FROM 1509 - 1700, LOAD 287 DREDGED FROM 1700 TO 2150. DRAGHEADS INSPECTED BETWEEN AGITATION & DREDGING

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: C. Mason, T McDonald

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: TUE 06 / 11 / 96 Loads: 288 & AGITATION

Area(s) Worked: -9+40 → +30+00

Weather Conditions: PTLY CLOUDY

Range of H_2O Temperature: Surface 77 - 78 °F Below Mid-Depth 77 - 78 °F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.): AGITATION BEGUN @ 1050, NO PUMPOUT DUE TO PROBLEM WITH PUMPOUT PIPE. 0425, STBD TED WELD FAILS, LEAVING DEFLECTOR HANGING BENEATH DRAGHEAD. TED REPAIRED BEFORE AGITATION BEGUN. DREDGE PERFORMED 6 CUTS OF AGITATION + 2 CUTS LOADED INTO HOPPER. DRAGHEADS & ALL SCREENS INSPECTED AFTER LOADED MATERIAL DUMPED INTO CHANNEL OVERDEPTH, APPX EVERY 1-3 HOURS. AN INTENSE THUNDERSTORM CELL PUTS GPS OUT OF SERVICE, DREDGE STANDS BY FROM 1830 - 2141, AT WHICH TIME AGITATION RESUMED.

BIOLOGIC SAMPLES WERE WOOD DEBRIS & SEAWEED, VARIOUS SHELLS. SOME TRASH WAS ALSO SMPLD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	4	ROLLING & TAIL SLAPPING NEAR SEA BUOY

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

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 6 / 12 / 96 Loads: 289 & AGITATION

Area(s) Worked: -9+40 → +30 +00

Weather Conditions: CLEAR TO CLOUDY, SEAS 1-4', WINDS PRIMARILY S-SW 5-10 KTS.

Range of H_2O Temperature: Surface 77-79°F Below Mid-Depth 77-79°F

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

- AGITATION CONTINUED FROM 2330 (6/11/96) TO 1230 (6/12/96). AT 1105, BEGAN AGITATING THROUGH THE DRAGHEADS AND OUT VIA THE OVERBOARD DISCHARGE ONLY - NO LOADING INTO THE HOPPER. AT 1230, PUMPOUT PIPE HAD BEEN REPAIRED AND [redacted] "NORMAL" DREDGING RESUMED FOR LOAD 289. HOWEVER, AGITATION WAS RESUMED AT 1805 DUE TO LOW TIDE. LOAD 290 BEGUN AT 2027.
- SARA SHAPIRO REPLACED BY TREY McDONALD AT 0800.
- MATERIAL DREDGED WAS FINE WHITE SAND
- BIOLOGICAL SAMPLES TAKEN: HORSESHOE CRABS, WOOD DEBRIS
- SOME TRASH, INCLUDING CABLES AND PLASTIC BAGS WERE ALSO FOUND

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

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

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - 'MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 6 / 13 / 96 Loads: 290-292 + Agitation
Area(s) Worked: -9+40 → 30+00
Weather Conditions: Clear, winds SE 10-15 Knots, seas 2-3'
Range of H_2O Temperature: Surface 79°-80°F Below Mid-Depth 79°-80°F
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Water temperatures reached into the 80's for the second week in a row. Operations continue to be agitition at low tide and regular dredging during periods of high tide. Material is a fine white sand with little debris. Almost all work being done is on the N shoal.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TT	1	1	sighted at the N shoal.

Observer(s) On Duty: P Westerman T McDonald

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTALL Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 6 / 14 / 96 Loads: Agitation + 293

Area(s) Worked: -9 + 40 → 30 + 00

Weather Conditions: Clear to Overcast, winds SE 10-15 Knots, seas 1-2'

Range of H_2O Temperature: Surface 79° F Below Mid-Depth 79° F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Agitation + land with no debris found. Port propeller repaired by divers during the first part of the day. Material is fine white sand with a shell mixture.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: P Westerman

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *MERMENTAU* - MERMENTAU Entrance Channel ST AUGUSTINE
USACE, Jacksonvile District - Winter 1996

DAILY REPORT

Date: 6 / 15 / 96 Loads: 294- 297 + Agitation

Area(s) Worked: -9+40 → 30+00

Weather Conditions: Overcast, winds SE 10-15 Knots, seas 1-3'

Range of H_2O Temperature: Surface 79°- 80° F Below Mid-Depth 79°- 80° F

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.): Three full loads of material were pumped out on the beach and the rest of the day was spent working on the North shoal using agitation. One stargazer was found along with some shell and wood debris. Material is fine white sand. Temperatures reached 80°F in the afternoon.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	1	close to the pumpout

Observer(s) On Duty: P Westerman