ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH RIVER

December 1993 - March 1994

DAILY REPORT (p. 1 of 2)

Date: 1 / 6 / 94 Loads: 1-4

Area Worked: -32+500 TO -38+500, GREEN SIDE

Conditions: P. CLOUDY TO CLEAR, WINDS W 8 KTS, SEAS CALM, OUTSIDE TEMP 52°F, WATER 50°F

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

Comments: Dredging commenced at 1648. Observers have been on standby since 1-2-94 - aboard dredge from 0800 hrs (1-2-94) until 1400 hrs (1-3-94) and then on shore until 1145 hrs (1-6-94). The turtle deflector requirement has been waved and so they are not in use at this time. There has been minimal overflow on this job and so loads require only approximately 1 hr. to fill.

Inflow screening has been a problem. Both the aft and mid inflow screens continue to give way to the force of the incoming slurry. The crew has tried to remedy this with reinforcing the screening but this only holds up for a few cuts. The Captain has ordered more sturdy screening and this will be emplaced as soon as possible. As it stands, inflow screening percentage is probably only 90%. Crew is making every attempt to remedy this situation. Skimmer screening is in place and in good shape.

Biological samples include 45 horseshoe crabs, 3 tunicates,

Bridge Watch Summary

Species	No. of animals	Comments
Tt	~10	Near station -33+100 on red side

Observer(s) On Duty: Kim Brown, Terry-Ky Ross

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH RIVER

December 1993 - March 1994

DAILY REPORT (p. 2 of 2)

Date: 1 / 6 / 94 Loads:

Area Worked: ~~CONTINUED FROM P. 1.~~

Conditions:

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

Comments:

4 whelks, 1 whiting, 1 tongue fish.

Loads are clean and free of trash.

No whales sighted by aerial survey.

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: Kim Brown, Terry-Ky Ross

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: SAVANNAH RIVER
December 1993 - March 1994

DAILY REPORT (p. 1 of 1)

Date: 1 / 7 / 94 Loads: 5 - 13

Area Worked: -32+500 TO -38+500, GREENSIDE

Conditions: P. CLOUDY, WINDS WNW 9 KTS, SEAS 2'-4', OUTSIDE TEMP 54°F, WATER 49°F

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

Comments: Overflow is still minimal but load cycles are longer with 6 cuts per load. The inflow to the mid and aft landers has been shut off temporarily for higher sampling percentage (now back to 100%) until these screens can be repaired. The fore lander screen was damaged and has been replaced with a grating made of welded angle iron in which the openings are a maximum of 4" as per the requirements. This screen type is a strong improvement.

Digging fine sand with substantial shell content.

Dredging was halted from 1831 until 2257 for valve repairs and ship remained at dump site during this period.

Biological samples included 71 horseshoe crabs, 51 sand dollars, 31 eels, 25 whelks, 12 tunicates, 7 mantis shrimp, 5 blue crabs, 5 spider crabs, 5 croakers, 4 whiting, 3 sponges, 3 tongue fish, 2 flounder, 2 sea cucumbers. No whales sighted by aerial survey.

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: Kim Brown, Terri-Ky Ross

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH RIVER

December 1993 - March 1994

DAILY REPORT

Date: 1 / 8 / 94 Loads: 14-21

Area Worked: -32+500 TO -38+500 BOTH SIDES

Conditions: CLOUDY W/ RAIN, WINDS NW 15KTS, SEAS 2'-4', OUTSIDE TEMP 50°F, WATER 49°F

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

Comments: Overflow is minimal to none and load cycles remain at 6 cuts per. Due to continuing problems with aft and mid screens, inflow is still restricted only to this hauler until more substantial grating is emplaced. Fore screens is holding up well. Drag Tender now lowers skimmer to 10' so that observers can inspect hauler screens en route to dump.

Digging fine sand with some mud and shell material.

Dredging has continued with minimal interruptions.

Biological sample includes 80 horseshoes, 70 eels, 14 croakers, 10 whelks, 7 blue crabs, 3 sand dollars, 2 whiting, 2 spider crabs, 1 tunicate, 1 mantis shrimp, 1 rock shrimp.

No whales sighted by aerial survey.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	10-15	sighted at 1000hrs near buoys 7+8
Tt	8	sighted at 1300hrs near buoys 7+8 c.d. (conditional duplicates)

Observer(s) On Duty: KIM BROWN, TERRY-KY ROSS

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: SAVANNAH RIVER
December 1993 - March 1994

DAILY REPORT

Date: Jan / 9 / 1994 Loads: 21-25

Area Worked: 32+500 TO 38+500

Conditions: CLEAR, WINDS NE 10 KTS, SEAS 3'-4', 40°F

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

Comments: Screens had hole damage for loads 21-24, then all screens were fixed with 4' metal mesh. The MID lateral screen suffered damage the load after it was repaired and was then shut off.

No whales were sighted by the aerial survey at 1300 hrs.

At 1430 there was a hole in the hopper, dredge unable to continue working. Dredge is going to dry dock for repairs, Turtle observers must leave ship.

FAUNA FOUND DURING LOADS 21-25 INCLUDE: 34 Horseshoe crabs, 34 eels, 1 flounder, 2 whelks, 3 sand dollars, 3 blue crabs, 5 tunicates, 6 croakers, 1 stingray

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: KIM BROWN, TERRI-KY ROSS

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: SAVANNAH RIVER
December 1993 - March 1994

WEEKLY SUMMARY

Dates: 1 / 2 / 94 - 1 / 9 / 94 Loads: 1-25

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

Comments: Observers were on board on 1/2/94 but there was no digging. Observers stayed aboard for bridge watch until 1/3/94 when dredge returned to dock. Observers remained on standby until 1-6-94 when dredging commenced.

The turtle deflector requirement was waved and so were not in use at any time during this period.

When digging first commenced there were many problems with inflow screening from the lander to the hopper. The original screening broke repeatedly which resulted in restricting the inflow at times to only the fore lander. More substantial grating has been emplaced at this time and seems to be holding up well. Holes are the required maximum of 4" in diameter. Crew has been helpful and patient in dealing with this. All other screening is fine.

Loads have been fairly clean with little debris. Digging ~~find so~~ fine sand with some mud and shell material. Biological samples include horseshoe crabs, eels, blue crabs, croakers, whelks, tunicates, spider crabs, sand dollars, flounder, and tongue fish.

Aerial survey reported no sightings of Right whales during this ~~kip~~ period.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	~10	Buoys 7 + 8 1/6
Tt	10-15	Buoys 7 + 8 1/8
Tt	~8	c.d. 1/8

Observers On Duty:

TERRY-KY ROSS
KIM BROWN

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 1 / 19 / 94 Loads: 26-31

Area Worked: STATIONS 32+500 - 38+500 (REDSIDE)

Conditions: TURNING CLDY, WIND NE → NNE - 10-15 KTS., SEAS 3-4', TEMP: 27°-32°F, H_2O T° = 46°F

TIDE H 00:52 L 06:56
H 13:16 L 19:20

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

Comments: FIRST DAY BACK FROM DRY DOCK. DREDGING BEGAN @ 0717
NO TEDS BEING USED DUE TO WAVED REQUIREMENT IN SPECS.
LOAD TIME APPROX. 3 HOURS. WEAKER SCREENS HAVE BEEN REPLACED
AT DRY DOCK WITH HEAVY GRADE SCREENS. NO PROBLEMS WITH
NEW SCREENS LATERAL DISCHARGE BOXES ARE NOT BEING USED
DUE TO COMPUTER PROBLEMS ON DREDGE.

BIOLOGICAL SAMPLES INCLUDE — HORSESHOE CRABS, BLUE CRABS,
SPIDER CRABS, TUNICATES, WHELK EGG CASING, SHRIMP, EEL & FISH.

AERIAL SURVEY REPORTED @ 1557 - NO SIGHTINGS

DREDGING FINE MATERIAL

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: XIMENA PRUDENCIO & CHRISTOPHER FARNSWORTH

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 1 / 20 / 94 Loads: 32-36

Area Worked: STATIONS 32+500-38+500 (RED SIDE)

Conditions: CLOUDY, WIND NE → NNW ~ 10 KTS, SEAS 2-3', TEMP = 32°-38°F, H_2OT° = 46°

TIDE H 01:41 L 07:53
H 14:06 L 20:15

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

Comments: NO LATERAL DISCHARGE

@1002 INTERMEDIATE CABLE ON PORT SIDE SNAPPED, DELAYED TIL 1202

CREW CHANGE TODAY DIGGING FINE SAND & SILT

BIOLOGICAL SAMPLES - HORSESHOE CRABS, EELS, BLUE CRAB, SPIDER CRABS, SAND SHARK, FISH

AERIAL SURVEY CREW CALLED - FLEW TODAY - NO WHALES SIGHTED

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: XIMENA PRUDENCIO & CHRISTOPHER FARNSWORTH

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: SAVANNAH
December 1993 - March 1994

DAILY REPORT

Date: 1 / 21 / 94 Loads: 37 - 40

Area Worked: STATIONS 32+500 - 38+500 (RED SIDE)

Conditions: CLDY → CLEAR, WIND NNW → NNE ~10 KTS, SEAS 2-3', TEMP = 35°-45°F
TIDES H 02:32 L 08:56
H 14:57 L 21:13
H_2O T° = 46°F

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

Comments: NOT USING LATERAL DISCHARGE BOXES
DELAYS - 0030 - 0150 STBD PUMP PROBLEM, DREDGING STOPPED.
0901 - 1015 CALIBRATED LIGHT SHIP WEIGHT, DREDGING STOPPED.
1418 - 1502 AFTER DUMPING LOAD 38, JET PUMP MALFUNCTIONED
1628 - 1632 LOST BOTH ENGINE SHAFTS.

BIOLOGICAL SAMPLES - EELS, HORSESHOE CRABS & FLOUNDER

AERIAL SURVEY REPORTED @ 1330 - NO SIGHTINGS

DIGGING FINE SAND

Bridge Watch Summary

Species	No. of animals	Comments
T+	4	@ STATION 35+700, ~60 M OUT OF GREEN SIDE
T+	~6-8	@ 1722, 37+000, 20M OUT OF GREEN SIDE

Observer(s) On Duty: XIMENA PRUDENCIO & CHRISTOPHER FARNSWORTH

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 1 / 22 / 94 Loads: 41-44

Area Worked: STATIONS 32+500 - 38+500 (RED SIDE)

Conditions: HAZY, WIND NNE 5-10 KTS, SEAS 3-4'→1', TEMP=36°-53°F, $H_2OT°$=48°F

TIDE H 03:26 L 09:57
H 15:54 L 22:10

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

Comments: NOT USING LATERAL DISCHARGE BOXES

@ 0039 PROBLEMS W/ STBD WINCH. DELAYED TIL 0247.

@ 1329 DREDGING DELAYED TO CALIBRATE DRAG DEPTH.

RESUMED @ 1434

BIOLOGICAL SAMPLES - HORSESHOE CRABS, SPOTTED WHIFF, EELS, WHELKS, BLUE CRAB, SPIDER CRAB

DIGGING FINE SAND

Aerial survey crew reported no sightings today.

Bridge Watch Summary

Species	No. of animals	Comments
T+	4	@ 31°59'.87, 80°47'.01 @ 0948
T+	6	31°59'.67, 80°46'.87 @ 1357

Observer(s) On Duty: XIMENA PRUDENCIO & CHRISTOPHER FARNSWORTH

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 1 / 23 / 94 Loads: 45 – 48

Area Worked: STATIONS 32+500 – 38+500 (RED SIDE)

Conditions: CLEAR, WIND SSW 0-8 KTS, SEAS 1-2', TEMP = 41-53°F, H_2O T° = 45°F

TIDE H 04:22 L 10:54
H 16:50 L 23:04

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

Comments: USING PORT SIDE LATERAL DISCHARGE BOX AS OF 1230

STBD DIGGING ONLY 0845-0900 - PROBLEM W/PORT TRUNION

* AERIAL SURVEY SIGHTED MOTHER & CALF RIGHT WHALES @ 1352 - LOCATION WAS 31°45'7, 80°53'4 WITH WHALES POINTING SOUTH. SPEED TO & FROM DUMP REDUCED TO < 5 KTS. AS SIGHTING WAS WITHIN 15 MI. OF WORK AREA

DELAY @ 2300, HYDROLIC OIL LEAK, RESUMED DREDGING @ 23:29

BIOLOGICAL SAMPLES INCLUDE: 16 horse shoe crabs, 1 squid, 3 eels, 3 flat fish, 1 whelk, 1 unid. fish

Bridge Watch Summary

Species	No. of animals	Comments
T+	7	31°59'75", 80°46'85" @ 17:18

Observer(s) On Duty: XIMENA PRUDENCIO & CHRISTOPHER FARNSWORTH

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

WEEKLY SUMMARY

Dates: 1 / 19 / 94 - 1 / 23 / 94 Loads: 26-48

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

Comments: Ouachita resumed digging on the 19th after being at dry dock for structural repairs. Observers stood by on Tybee Island 1/18/94.

No TEDS are being used as they have been waived for this contract. Screens have been replaced while at dry dock as others were breaking with every load. No problems with new screens.

Lateral discharges were not used from 1/19 - 1/22 due to computer problems on dredge. Port side discharge used on 1/23.

Dredge experienced several delays - see Daily Report for details.

Material being dug is fine silt & sand. Loads have been mostly clean with little debris. Biological samples include: horseshoe crabs, flat fish, eels, whelks, blue crabs, spider crabs, sand shark, unid. fish, tunicates, shrimp, squid, whelk egg casings & sand dollars.

1/23 - Aerial survey crew sighted mother-calf right whale pair @ 13:52 - Location 31°45'7, 80°53'4 - whales pointing south. Dredge reduced speed to & from dump site to <5 kts. as sighting was within 15 mi. of work area.

Area worked - $32^{+500} \rightarrow 38^{+500}$ - Red side

Water temperature - 45°F - 48°F

Bridge Watch Summary

Species	No. of animals	Comments
Tt	4	1/21 @ 35^{+700} ~60 m outside channel - green side @ 15:08
Tt	~6-8	1/21 @ 32^{+000} ~20 m outside channel - green side @ 17:22
Tt	4	1/22 - @ 31°59'87, 80°47'01 @ 09:49
Tt	6	1/22 - @ 31° 59'67, 80° 46'87 @ 13:57
Tt	7	1/23 @ 31°59'75, 80°46'85 @ 17:18

Observers On Duty:

Ximena Prudencio

Christopher Farnsworth

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah

December 1993 - March 1994

DAILY REPORT

Date: 1 / 24 / 94 Loads: 49 - 53

Area Worked: 32+500 → 38+500 (Loads 49 + 50 - Red side, 51 on whole channel)

Conditions: clear → hazy, WIND SSW → W 0-5 KTS, SEAS <1', OUTSIDE 45°F - 55°F, H_2O temp 47°F

Tide H 05:16 L 11:45
H 17:43 L 23:55

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

Comments: Using only PORT discharge

At 13:30 hole found in suction pipe, can't close skim valve on port side. From 14:16 to 15:20 using only STBD. draghead.

As of 14:16 (Load 51) started digging whole channel.

Material being dug is very fine silt. Screens quite clean.

Biological samples include: Horseshoe crabs, eels, sponges, sand dollars, fish, sea pork & star fish

Aerial survey crew called @ 13:11 - no whales sighted.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	5-6	@ 10:16 @ 32°00'24, 80°47'48
Tt	2	@ 12:56 @ 31°59'72, 80°46'88

Observer(s) On Duty: Aurora Prudencio, Christopher Farnsworth

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: Savannah
December 1993 - March 1994

DAILY REPORT

Date: 1 / 25 / 94 Loads: 54-58

Area Worked: 32+500 → 38+500 - (whole channel)

Conditions: Hazy/pt. cloudy, WIND W-SSE 0-5 kts., seas <1', outside temp 46°-67°F, H_2O temp - 46°F
Tides: H 06:07 L 12:34
H 18:32

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

Comments: only using port lateral discharge.
Delay today to work on stbd engine 09:20 - 10:50. From 16:20 - 16:43 only using stbd. engine so twelve man could do checks on port engine.
Still dredging very fine silt. More metal scraps being found than before.
Biological samples: Horse shoe crabs, eels, flat fish, blue crabs, sand dollars.

Aerial survey crew reported @ 12:50 - no whales sighted today

Bridge Watch Summary

Species	No. of animals	Comments
Tt	5-6	@ 12:18 @ 31°59'84, 80°47'03 - outside green side of channel

Observer(s) On Duty: Lynnene Prudencio, Christopher Farnsworth

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah

December 1993 - March 1994

DAILY REPORT

Date: 1 / 26 / 94 Loads: 59-62

Area Worked: 32+500 → 38+500 (whole channel)

Conditions: HAZY → VERY HAZY + CLOUDY WIND 0-3 → 0-5KTS, SEAS <1', 52-55°F outside temp, H_2O temp 47°F

TIDES: H 06:53 L 00:45 H 19:12 L 13:20

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

Comments: USING ONLY PORT LATERAL DISCHARGE

STILL DIGGING VERY FINE SILT

WEATHER GETTING VERY HAZY + FOGGY BY MIDNIGHT – AT TIMES ONLY 2/10 MI. VISIBILITY

BIOLOGICAL SAMPLES INCLUDE: horseshoe CRABS, EELS, SPIDER CRABS, KEYHOLE URCHINS

AERIAL SURVEY CREW REPORTED NO WHALE SIGHTINGS TODAY

Bridge Watch Summary

Species	No. of animals	Comments
Tt	2	@ 32°00'08", 80°47'22" @ 07:37
Tt	1	@ 32°00'24, 80°47'49" @ 15:43

Observer(s) On Duty: Ximena Paulencio, CHRISTOPHER FARNSWORTH

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah

December 1993 - March 1994

DAILY REPORT

Date: 1 / 27 / 94 Loads: 63 - 66

Area Worked: 32+500 → 38+500 (whole channel)

Conditions: cloudy & foggy, wind 10-25kts., seas 1-3' → 3-5' outside temp 46-49°F, water temp 47°F @ 13:04

Tides: H 07:37 L 01:33
H 20:00 L 14:05

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

Comments: ONLY USING PORT LATERAL DISCHARGE (waiting for parts for stbd. lat. discharge)

06:20 → 08:25 - Port intermediate cable snapped & repaired

During load 64 overboard discharge boxes were lifted due to rough weather conditions - lateral discharge was not used - also, only used leeward side discharge due to rough weather conditions.

Aerial survey crew did not fly due to bad weather conditions - slowed to <5kts for the night

Delay to fix shear pin on stbd. side 23:45 → 00:58

Material being dug is still very fine silt. Biological samples include blue crabs, horseshoe crabs, eels, fish, & whelks

02:30 - Chris Slay called to check on observers

Bridge Watch Summary

Species	No. of animals	Comments
Tt	1	@ 15:48 @ 32°00'03", 80°47'25"

Observer(s) On Duty: Virginia Prudencio / Christopher Farnsworth

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah

December 1993 - March 1994

DAILY REPORT

Date: 1 / 28 / 94 Loads: 67 - 70

Area Worked: 32+500 → 38+500 (whole channel)

Conditions: Foggy & cloudy, Wind NE 10-15 KTS → WSW 5-10 KTS, seas 3-5' → 2-3', outside 49°-58°F, H_2O 48°F @ 13:45

Tides: H 08:20 L 02:21
H 20:44 L 14:49

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

Comments:

Lateral discharges not in use due to rough weather conditions (STBD used during load 68)

(1/27) 23:45 → (1/28) 00:58 - delay to fix / STBD. sheer pin

• Still dredging, fine material. Biological samples include: blue crabs, horseshoe crabs, eels, stingfish, a sponge & sea pork

• Aerial survey crew did not fly due to poor weather conditions. Slowed speed to & from dump site to <5 KTS.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	2	@ 31°59'92", 80°47'05" @ 14:58 - just outside green side of channel
Tt	4-6	@ 32°00'16", 80°47'36" @ 16:57

Observer(s) On Duty: Lorena Pendarvis & Christopher Farnsworth

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah

December 1993 - March 1994

DAILY REPORT

Date: 1 / 29 / 94 Loads: 71 - 74

Area Worked: 32+500 → 38+500 (whole channel)

Conditions: foggy, cloudy & rainy, Wind S → NW 5-10KR., seas 1'-3', outside 51°F - 58°F, watertemp. 48°F @ 13:06

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

Comments: Lateral discharges not in use due to rough weather conditions.

Short delay @ 11:13 to fix port trunion cable

Material being dug still very fine silt. More pieces of metal being dug up. Biological samples are: horseshoe crabs, spidercrabs, eels, sanddollars, shells, starfish, whelks, seapork & seacucumber, blue crab

Aerial survey crew called R.N. Weeks. They called @ 11:55. No aerial survey due to poor weather conditions. Slowed to <5kts. for the night.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	6	@08:55 @ 32°00'25", 80°47'40"

Observer(s) On Duty: Ximena Prudencio & Christopher Farnsworth

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah

December 1993 - March 1994

DAILY REPORT

Date: 1 / 30 / 94 Loads: 75 - 78

Area Worked: 32+500 → 38+500 (whole channel)

Conditions: overcast & rainy, WINDS NW → E → NW 0-5 kts, seas 1'-3', outside temp 47°F - 54°F, H

Tide: H 09:50 L 03:55
H 22:20 L 16:16

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

Comments:

Still dredging very fine material - silty. Loads taking slightly longer as the job nears an end.

Biological samples include: horseshoe crabs, spider crabs, blue crabs, eels, whelk; seacucumbers

Aerial survey crew reported at 13:55. No flight due to poor weather conditions. Slowed speed to ½ from dump to <5kts. for the night.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	3-4	@12:55 @32°00'16", 80°47'37" - just outside channel ~ 10 m - green side
Tt	12-18	@15:35 @32°00'13", 80°47'25" ~100 m outside channel - green side

Observer(s) On Duty: Vincent Prudente + Christopher Farnsworth

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: Savannah
December 1993 - March 1994

WEEKLY SUMMARY

Dates: 1 / 24 / 94 - 1 / 30 / 94 Loads: 49-78

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

Comments:

Used only port discharge from 1/24 to 1/27. From 1/28 to 1/30 used them as it would allow due to repairs. (can check individual load sheets for details).

On 1/24 @ 14:16 (Load 51) started digging whole channel.

Experienced some delays - see Daily Reports for details.

Material being dug is still fine silt. More & more metal being dug up. Biological samples include: eels, horseshoe crabs, blue crabs, spider crabs, whelks, sand dollars (keyhole urchins), fish, starfish, sea pork, flatfish, sea cucumbers & a sponge.

Weather for the week started clear. As of 1/26 hazy & cloudy turning to thick fog, overcast skies & rain. Aerial survey crew did not fly 1/27 - 1/30 due to these poor weather conditions. Slowed speed to & from dump site to <5 KTS for those nights. (Did not sight any whales 1/24 - 1/26 during surveys nor did observers sight any whales).

Bridge Watch Summary

Species	No. of animals	Comments
Tt	5-6	1/24 @ 10:16 @ 32°00'24", 80°47'48"
Tt	2	1/24 @ 12:56 @ 31°59'72", 80°46'88"
Tt	5-6	1/25 @ 12:18 @ 31°59'84", 80°47'03" - outside greenside of channel.

(Bridge watch summary continued other side)

Observers On Duty:

Xumena Prudencio
Christopher Tarnsworth

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 1 / 31 / 94 Loads: 79-82

Area Worked: 32+500 → 38+500 (WHOLE CHANNEL)

Conditions: CLOUDY, WIND NE 0-10 KTS., SEAS 1-3', 43°-49° F, H_2O → 48° F

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

Comments: Aerial Survey called, didn't fly, slow to < 5 KTS., after dark.

BIOLOGICAL SAMPLES — HORSESHOE CRAB, SEA PORK, EEL, METAL, WHELK, CORAL, BLUE CRAB & SEA CUCUMBER

DIGGING fine silt & sand

Bridge Watch Summary

Species	No. of animals	Comments
T+	6	32°00'28", 80°47'46" @ 0903
T+	12-16	32°00'15", 80°47'40" @ buoy #7

Observer(s) On Duty: Christopher Farnsworth, Ximena Prudencio

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 2 / 1 / 94 Loads: 83-86

Area Worked: 32+500 → 38+500 (WHOLE CHANNEL)

Conditions: CLEAR, WIND NW 0-10KTS, SEAS 1-3', 38°-49° F, H_2O → 48°F

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

Comments: OBSERVER XIMENA PRUDENCIO REPLACED BY DOUG KINZEY @ ~0800.

AERIAL SURVEY REPORTED NO SIGHTINGS @ 1310

BIOLOGICAL SAMPLES – HORSESHOE CRAB, WHELK, EEL, SEA CUCUMBER, SPIDER CRAB, MANTIS SHRIMP, CALICO CRAB

Bridge Watch Summary

Species	No. of animals	Comments
T+	~15	31° 59'08", 80° 46' 91"
		BUOYS 7-8

Observer(s) On Duty: Christopher Farnsworth & Doug Kinzey

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 2 / 2 / 94 Loads: 87-91

Area Worked: STATIONS 32+500 - 38+500

Conditions: CLEAR, WIND NW 5-10 KTS., SEAS 1-2', AIR TEMP 38°-46°F
H_2O TEMP. - 48°F

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

Comments: NO INCIDENTS

AERIAL SURVEY TEAM REPORTED NO SIGHTINGS @ 1248 hrs.

BIOLOGICAL SAMPLES - HORSESHOE CRABS, WHELKS, SPIDER CRABS, EELS, BLUE CRAB, FISH, SAND DOLLAR, SEA CUCUMBERS.

Bridge Watch Summary

Species	No. of animals	Comments
Ø		
Ø		
Ø		

Observer(s) On Duty: Christopher Farnsworth & Doug Kinzey

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 2 / 3 / 94 Loads: 92-95

Area Worked: STATIONS 32+500 → 38+500

Conditions: CLEAR, WIND NW 0-8 KTS., SEAS <1'.

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

Comments:

DIGGING FINE SILT & SAND

VERY LITTLE MATERIAL IN SCREENS

BIOLOGICAL SAMPLES INCLUDE: HORSESHOE CRABS, EELS, BLUE CRABS, SPIDER CRABS, FISH, SEA PORK & SEA CUCUMBERS

AERIAL SURVEY REPORTED NO SIGHTINGS @ 1310

Bridge Watch Summary

Species	No. of animals	Comments
Ø		
Ø		
Ø		

Observer(s) On Duty: Christopher Farnsworth, Doug Kinzey

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: SAVANNAH
December 1993 - March 1994

DAILY REPORT

Date: 2 / 4 / 94 Loads: 96-99

Area Worked: STATIONS 32+500 — 38+500 (CLEAN-UP)

Conditions: CLEAR, WIND SW → NW 0-10 KTS., SEAS 1-4', 48°-58°F

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

Comments:

~1315 Dredge RN.WEEKS Reports Bouy #6 is adrift.

~1345-1400 Crewboat Bayou Chene retrieves drifting bouy, ties it off to Bouy #5

* 1233 Aerial Survey Reports No Whales

Screens nearly empty, few horseshoe crabs, whelks and eels only biological samples.

Bridge Watch Summary

Species	No. of animals	Comments
Ø		

Observer(s) On Duty: Christopher Farnsworth & Doug Kinzey

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 2 / 5 / 94 Loads: 100 - 102

Area Worked: STATIONS 32+500 - 38+500

Conditions: CLDY, FOGGY, WIND NW-SE 0-8 KTS., SEAS 1-2', H_2O T° = 48°

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

Comments: LOADS TAKING BETWEEN 4 1/2 - 6 HRS DUE TO END OF PROJECT CLEANUP. VERY LITTLE BIOLOGICAL SAMPLING IN SCREENS.

SAMPLES INCLUDE HORSESHOE CRAB, BLUE CRAB, SPIDER CRAB, EEL, WHELKS & SAND DOLLARS.

AERIAL SURVEY REPORTS NO FLIGHT DUE TO LOW CEILING, < 5 KTS TO DUMP, DUSK 'TIL DAWN.

Bridge Watch Summary

Species	No. of animals	Comments
Ø		

Observer(s) On Duty: Christopher Farnsworth & Doug Kinzey

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

DAILY REPORT

Date: 2 / 6 / 93 Loads: 103 – 105

Area Worked: STATION 32+500 → 38+500

Conditions: FOGGY, CLOUDY, WIND SE 0-5 KTS, SEAS 1-2', H_2O T° = 48°-49°F

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

Comments: FINAL CLEANUP LOADS IN SAVANNAH ENTRANCE CHANNEL. VERY LITTLE MATERIAL IN SCREENS.

BIOLOGICAL SAMPLES INCLUDE - HORSESHOE CRABS, EELS, FISH, SPIDER CRABS, WHELK & SAND DOLLARS.

DIGGING SAND.

PICKED UP @ 0430 FOR TRIP TO PORT ROYAL, S.C.

NO AERIAL SURVEY DUE TO POOR WEATHER.

Bridge Watch Summary

Species	No. of animals	Comments
T+	2	31°50'N 80°47'W @ 1646

Observer(s) On Duty: Christopher Farnsworth & Doug Kinzey

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: SAVANNAH
December 1993 - March 1994

WEEKLY SUMMARY

Dates: 1/31/94 - 2/6/94 Loads: 79 - 105

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

Comments:

DIGGING CONSISTS OF MAINLY CLEANUP DREDGING, LOADS TAKING ~4-6 HOURS TO DIG.
MATERIAL DUG IS FINE SAND.
SCREENS ARE FAIRLY CLEAN, SAMPLES INCLUDE: HORSESHOE CRAB, BLUE CRAB, SPIDER CRAB, FISH, WHELK, SEA CUCUMBER, SEA PORK, EEL, CORAL, MANTIS SHRIMP, CALICO CRAB & SAND DOLLARS.

OBSERVER XIMENA PRUDENCIO REPLACED BY DOUG KINZEY ON 2-1-94 @ ~0800.

AERIAL SURVEY CREW DID NOT FLY ON 1.31, 2.5 & 2.6 DUE TO POOR WEATHER. WHEN FLYING OCCURED NO SIGHTINGS.

H_2O TEMP = 48° - 49°F

Bridge Watch Summary

Species	No. of animals	Comments
T+	12-16	32°00'28"N, 80°47'46"W @ 0903, 1.31
T+	15	31°59'08"N, 80°46'91"W @ 2.1
T+	2	31° 50' N, 80°47' W @ 1646, 2.6

Observers On Duty:

- CHRISTOPHER FARNSWORTH
XIMENA PRUDENCIO
DOUG KINSEY

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah R.

December 1993 - March 1994

DAILY REPORT

Date: 2 / 26 / 94 Loads: 106 & start 107

Area Worked: "clean up" work between stations 38500 & 34750

Conditions: clear skies & calm seas. Winds NE @ <5 knots. air temp ~60's, water temp 55° F springtides

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

Comments: the Ouachita had to return to finish up work done here earlier this year @ the Corps of engineers instruction. We arrived from Port Royal SC, & began dredging @ 0940 Hrs. Skimmer / variable level water control apparatus rending broken; overflow is closed. Screens clean except for a few Horseshoe crabs, & wood debris, & clay clumps. Dredging work is slow & a little tedious

Bridge Watch Summary

Species	No. of animals	Comments
		Ø

Observer(s) On Duty: W. Botts, J Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: Savannah R.

December 1993 - March 1994

DAILY REPORT

Date: 2 / 27 / 94 Loads: 107 to 109 & start 110

Area Worked: between stations 385+00 & 347+50

Conditions: clear skies, winds NE @ 15-20 knots, seas 4-6' both diminishing

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

Comments: Its slow going trying to finish up this section to corps specifications.
Each load has ≈ long large horseshoe crabs

Bridge Watch Summary

Species	No. of animals	Comments
Tursiops	≈ 3-4	Seen fairly regularly thru the afternoon about the red #8 buoy

Observer(s) On Duty: W. Botts, J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM
Gulf Coast Trailing/Dredge OUACHITA
Channel: Savannah R.
December 1993 - March 1994

DAILY REPORT

Date: 2 / 28 / 94 Loads: 110 to 113 (finished @ 0449 hrs 3/1) (started @ 1900 hrs 2/27)

Area Worked: "clean up" in stations 385+00 to 347+50

Conditions: Partly cloudy skies, Wind NE switching to SE, @ 5 knots, increasing to 15-20 knots seas calm to 4-6'; air temp Hi 62°F low 49°F Spring tides

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

Comments: Tedious "finish up" dredging work
Dredging fine silty material.
Taking some horseshoe crabs & old whelk shells
Overflow is closed so discharge boxes are not in use.
Ceased dredging operation @ 0449 to make a dump run
& go to the fuel docks in Savannah.

Bridge Watch Summary

Species	No. of animals	Comments
T Tursiops	~6	We saw tursiops, singley & in pairs, all day between red buoys #6 & #8

Observer(s) On Duty: W Botts, J Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge OUACHITA
SAVANNAH Entrance Channel
Winter 1994

DAILY REPORT

Date: 3 / 22 / 94 Loads: —

Area Worked: — Fuel Dock —

Conditions:

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

Comments:

At fuel dock - headed in at 04:30

Observers cleaned screening & consulted with welder about repairs to be made aft screen

Port TED removed with new port draghead - STBD TED will be cut after leaving dock - waiver on TEDs - none needed for this job

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: Ximena Prudencio, John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge OUACHITA

SAVANNAH Entrance Channel

Winter 1994

DAILY REPORT

Date: 3 / 23 / 94 Loads: 118

Area Worked: 322^{50} → 362^{50}

Conditions: overcast; southerly winds @ 5-10KB; seas <3'; Temp 63°F

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

Comments:

Dredge left fuel dock at ~15:15

Prior to leaving dock the aft screening was welded down. Also middle cylinder on skimmer removed - extra grating was put in over hole so no biological content would slip through it to ensure safety of observers.

Observer JOHN KNECHT switched out with observer Sydney Prince prior to leaving dock

Both TEDs were removed as there is a waiver on the specs

Biological contents include: ray, horseshoe crabs, spider crabs, blue crabs whelks

No aerial surveys - speed limited to <5kts to & from dumpsite at night.

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: John Knecht, Sydney Prince, Ximena Prudencio

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge OUACHITA
SAVANNAH Entrance Channel
Winter 1994

DAILY REPORT

Date: 3 / 21 / 94 Loads: 114 - 117

Area Worked: 320+00 → 385+00

Conditions: hazy/pt-cloudy; wind S/SW - 15-20kts - (5kts later afternoon); Seas 2-3'; Air Temp 62-68°F
H_2O Temp 62°F

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

Comments:

- clean up job for Savannah channel
- Material is fine sand - Biological samples are few in numbers - it includes: horseshoe crabs, blue crabs, spider crabs, key hole urchins (sand dollars) starfish, eels, jellyfish, whelkshells, Ray + turtle*

* Caretta caretta parts found ~~during~~ after load 114 (loggerhead sea turtle) right flipper + viscera found on skimmer - also pieces of ~~4~~ +1 plastron piece carapace found on skimmer ~ 1/2 of plastron with flesh from around neck found in mid screen - Adult - flipper length 46 cm. - turtle was photographed + frozen

No aerial surveys in area - proceeded to + from dump at <5 kts during night hours.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	4	in the mid AM hours, beyond red bouy #6

Observer(s) On Duty: Ximena Prudencio, John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge OUACHITA

SAVANNAH Entrance Channel

Winter 1994

DAILY REPORT

Date: 3 / 24 / 94 Loads: 119 - 121

Area Worked: 320+00 → 385+00

Conditions: overcast & foggy; wind light & variable; seas 0-3'; Air Temp 64-70°F; H_2O Temp 63°F

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

Comments:

OUACHITA CREW SWITCHED OUT during early A.M. Hours. Captain Townsend & mates getting off informed incoming mates about turtle situation & the speed (<5 KTS.) to & from the dump.

Biological samples are few. They include: spider crabs, horseshoe crabs, conchs, coral blue crabs, starfish, jellyfish, bivalves, stingray & seaturtle*

* One juvenile loggerhead (Caretta caretta) taken during Load # 120. All parts found in middle screen. Parts include: front left flipper & top ½ of plastron attached; rear right flipper & bottom ½ of plastron attached; marginal fragmented pieces of carapace & marginal muscle matter (seems to be from shoulder girdle) When placed together plastron length could be accurately measured. Plastron length = 46 cm, front flipper = 29 cm. Observers photographed & froze turtle. Made report to CINRS Stay who will make all necessary reports

– at 17:18 all operations stopped until further notice due to turtle takes. Combined the Ouachita & RN Weeks have taken 4 turtles – (3 Caretta caretta + 1 Lepidochelys kempi ♂ (alive)) – Ouachita has taken 2 Caretta caretta. Dump was made and Ouachita anchored for the evening

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: Sydney Prince, Ximena Prudencio

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge OUACHITA

~~Kings Bay~~ Entrance Channel

SAV Winter 1994

DAILY REPORT

Date: 03 / 25 / 94 Loads: NO LOADS

Area Worked: OUACHITA ANCHORED

Conditions: OVERCAST / DRIZZLE, W = NE 10-20 kts, Seas 2'-5', Temp = 66°

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

Comments: DREDGE REMAINED ANCHORED IN CHANNEL SINCE 3/24 @ 1718 DUE TO THE H TURTLE TAKES. NEWS REGARDING PERMANENT SUSPENSION OF JOBS IN SAVANNAH DID NOT ARRIVE ON BOARD UNTIL 11:30 A.M. DREDGE OUACHITA PREPARED FOR TRIP TO MOREHEAD, N.C.

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: Sydney Prince, Ximena Prudencio

ENDANGERED SPECIES OBSERVER PROGRAM

Gulf Coast Trailing/Dredge OUACHITA

Channel: SAVANNAH

December 1993 - March 1994

WEEKLY SUMMARY

Dates: 3 / 21 / 94 - 3 / 25 / 94 Loads: 114-121

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

Comments:

3/21

* Load 114 - Turtle parts found on skimmer & mid screen - Caretta caretta - adult (loggerhead) right flipper (46 cm) & viscera found on skimmer - also 1 piece of plastron & 4 small carapace pieces found on skimmer - ½ plastron with marginal skin & skin from around neck found in mid screen - turtle was photographed & frozen - H_2O Temp 62°F

3/24

* LOAD 120 - Turtle parts found in mid screen - Caretta caretta - juvenile - parts found were: front left flipper (29 cm) attached to upper ½ of plastron; rear right flipper attached to bottom ½ of plastron; fragmented pieces of carapace & marginal muscle matter from around ~~right~~ shoulder girdle - plastron could be pieced together & accurately measured = 46 cm. Observers photographed & froze turtle - H_2O temp 63°F

3/22 & 3/23 - spent at fuel dock (until 15:15 on 3/23) observers cleaned screens - maintenance work was done by welder on skimmer & aft lander - both TEDs were removed as there is a waiver on TEDs

3/23 - observer John Knecht switched out with observer Sydney Prince

3/24 - @ 17:18 all dredging ceased due to intake of turtles (4 total for channel) Ouachita dumped & anchored for the evening until further notice

3/25 - @ ~11:30 word was received that job was accepted - Ouachita to leave Savannah

Bridge Watch Summary

Species	No. of animals	Comments
Tt (bottlenose dolphin)	4	in mid - AM hours - beyond red buoy #6

Observers On Duty:

John Knecht

Sydney Prince

Aimee Prendergast