

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject Brunswick, GADAILY REPORTDate: 12/15/99 Loads: 1-4Area(s) Worked (Stations & Lat/Long): -15+00 - -21+00Weather Conditions (air temp, wind dir & spd, beau,): clear-cloudy, seas = 1'-2', wind = SW-WNW@Range of H₂O Temperature (C): Surface 61°F Below Mid-Depth 60-60.5°F 15-2.Condition of all screening apparatus: Inflow boxes need additional screening on tops of cages to prevent specimens from being blown out of the top. It was agreed that this will be completed by early next week.Are there incidents involving endangered or protected species? Yes No X

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

Two turtle observers boarded vessel at 0815 (Mary Hart and Meghan Piercy).Vessel commenced dredging load #1 @ 1945 hours, after instruments were calibrated. (Dredge just came out of Mobile shipyard).Dredged materials consist of sand.Biological specimens retained by screening included Horseshoe crab, lightning whelks, eel, wood, coconut.Plastics and metal debris were also retained.3 Shrimp trawlers were working in and around channel.Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Trawlers	1	3 boats	Working in and around channel

Observers On Duty: M. Hart, M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject Brunswick, GADAILY REPORTDate: 12/16/99Loads: 5-8Area(s) Worked (Stations & Lat/Long): 15+00 - 21+00, 15+00 - 19+00Weather Conditions (air temp, wind dir & spd, beau,): P/C, seas = 1-3; Wind = 3-20 NNW-WNWRange of H₂O Temperature (C): Surface 61°F Below Mid-Depth 60°FCondition of all screening apparatus: See 12/15.Are there incidents involving endangered or protected species? Yes No X

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

Dredged material consists of sand.

Biological specimens retained by screening included: Horseshoe crabs, Lightning Whelks, sand dollar, Worms, Wood.

Plastics and cloth were also retained by screening.

6 trawlers working in area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Trawlers	1	6	
<i>Tursiops truncatus</i>	2	3	2 individuals were observed near channel, behind trawler. The 3rd was seen 1/2 way between dump and work stations.

Observers On Duty: M. Hart, M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject Brunswick GADAILY REPORTDate: 12/17/99Loads: 9-15Area(s) Worked (Stations & Lat/Long): STNS: -15+00 to -19+00 and -22+50 to -34+00Weather Conditions (air temp, wind dir & spd, beau,): overcast; seas 2-4 ft; wind WNW to NNE @ 10-20 ktsRange of H₂O Temperature (C): Surface 60-61° F Below Mid-Depth 59-60° FCondition of all screening apparatus: Additional screening necessary for inflow boxes.Are there incidents involving endangered or protected species? Yes No X

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

Material dredged consisted of sand and silt-like mud.Biological specimens retained by screens included:
Horseshoe crabs, lightning whelks and other shells,
sea grasses, and sponges.Abiotic specimens retained by screening included pieces of
wood, rock, and metal and plastic debris.There were 10 trawlers in the areaBridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			

Observers On Duty: M Hart, M Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject Brunswick GADAILY REPORTDate: 12/18/99 Loads: 16-26Area(s) Worked (Stations & Lat/Long): STN: -22+500 to -34+00Weather Conditions (air temp, wind dir & spd, beau,): Gloomy, sea 2-5 ft; wind NE/E @ 10-25 ktRange of H₂O Temperature (C): Surface 61°F Below Mid-Depth 60°FCondition of all screening apparatus: Additional Screening necessary for inflow boxes.Are there incidents involving endangered or protected species? Yes No X

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

Material dredged consisted of silt-like mud.Biological specimens retained by screen included:Looseshoe crabs, whelks, whelk eggs, shrimp, flounders, pen shells, snails, and sea grasses.Wood pieces, rope, netting, plastic debris, a paint can, a cushion, a plastic bucket, and metal debris were also retained by screen.7 trawlers were in the area.Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			

Observers On Duty: M Hart, M Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject Brunswick GADAILY REPORTDate: 12/19/99Loads: 27-35Area(s) Worked (Stations & Lat/Long): -22+50 to -34+00Weather Conditions (air temp, wind dir & spd, beau,): overcast w/ showers; seas 1-4'; wind NE 5-20 ktsRange of H₂O Temperature (C): Surface 60° F Below Mid-Depth 59.5-60.0° FCondition of all screening apparatus: Today partial screening was placed over the tops
of the forward inflow boxes. The screening extended one foot from the
left portion of the opening.Are there incidents involving endangered or protected species? Yes No X

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

Material dredged consisted of silt-like mud.Biological specimens retained by screen included: horseshoe crab,
whelk and other shells, flounder, skate, ray, heart crab,
limpets, and sea grasses.Wood debris, netting, rope, and plastic debris was also
retained by screening.Dredge took up water and welded additional screening on the
top of the forward leaders.Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>3</u>	<u>7</u>	

RWENS called to notify Dredge Newport that 2 Right Whales were spotted 11-12 miles
South of St Simons Channel and that restricted speed was in effect for tonight.Observers On Duty: M.Piercy, M.Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportWeek 1
No TURTLESProject Brunswick GAWEEKLY SUMMARYDates: 12/15/99 - 12/19/99 Loads: 1-35Range of H₂O Temperature (C): Surface 60-61°F Below Mid-Depth 59-60°FArea(s) Worked (Stations, Lat/Long): Stns: -75°00'00"-21°00' and -22°50' to -34°00'Are there incidents involving endangered or protected species? Yes No X

Comments (incidents, condition of screening, predominant biological samples, dredge material, etc): _____

Two endangered species observers boarded Dredge Newport at 0815 on Dec 15 (Mary Hart and Meghan Piercy).Vessel commenced dredging at 1945 on Dec. 15.Dredge material consisted of sand and salt-like mud.Biological specimens retained by screening included: horseshoe crabs, trawling whelks, sand dollar, worms, whelk eggs, sea grasses, sponges, shrimp, flounder, pen shells, scallops, other shells, a skate, a ray, hermit crab, and a blue crab.Wood debris, plastic, metal, rope, and netting were also retained by screens.It was found that the inflow screening boxes needed additional screening to prevent specimens from being blown out of the tops. On Dec 19, partial screening was placed over the tops of the forward inflow boxes. The screening extended 12 inches from the aft portion of the opening. Part of the top of the boxes is still left open to allow for cleaning of the screens. Occasionally dredge material may still escape screening especially if the inflow screens are clogged with debris.Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>5</u>	<u>10</u>	<u>(Bottlenose dolphin = TT)</u>

There were 3-10 Trawlers in the area every day.Dec 19: RNEWS called to notify dredge of two Right Whales spotted 11-12 miles south of St. Simon's Island and that restricted speed was in effect for that night.Observers On Duty: Mary Hart and Meghan Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject St. Simons Channel, Brunswick, GADAILY REPORTDate: 12/20/99Loads: 36-45Area(s) Worked (Stations & Lat/Long): -22+50 - 34+00Weather Conditions (air temp, wind dir & spd, beau,): P/C, 0/C, seas = 0-3', wind =Range of H₂O Temperature (C): Surface 59°-60° Below Mid-Depth 59°FCondition of all screening apparatus: EXCELLENTAre there incidents involving endangered or protected species? Yes X No _____

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

One loggerhead sea turtle (Caretta caretta) was taken during load # 45. It was a subadult, freshly killed. (See incident report).

Dredged material continues to be mud.

Biological specimens retained by screening included: Caretta caretta, Horseshoe crabs, lightening whelks, Skate, Blue crabs, Sea star, moonsnails, sea cucumber, flounder, jellies, whelk eggs, sea grasses, scallops and wood.

Plastics and metal debris were also retained by screening.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>5</u>	<u>40-50</u>	<u>20-30 feeding on shoal, most others behind and near trawlers</u>

Observers On Duty: M. Piercy, M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject St. Simons Channel, Brunswick, GADAILY REPORTDate: 12/21/99Loads: 46-50Area(s) Worked (Stations & Lat/Long): 22°50' - 34°00'Weather Conditions (air temp, wind dir & spd, beau,): P/C - c, seas = 1-3', Wind = E @ 7-15 K.Range of H₂O Temperature (C): Surface 59°-60.5°F Below Mid-Depth 59°-60°FCondition of all screening apparatus: EXCELLENTAre there incidents involving endangered or protected species? Yes X No _____

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

Another Loggerhead Sea Turtle (Caretta caretta) was taken today in load # 50. This was the second turtle in less than 24 hours and the dredge suspended operations to await the arrival of the trawler "Georgia Bulldog," which began work on 9/22 @ x 15:30. See incident report for more information.

Dredged material continues to be mud.

Biological Specimens retained by screening included ⁽¹⁾Loggerhead Sea Turtle, Horseshoe crabs, Lightning whelks, olive shells, dog fish, sponges, sea stars, sea grass, Blue crabs, and wood.

Plastics and monofilament fishing line were also retained.

The two dead turtles were weighted down marked w/ fluorescent orange paint, and disposed of at sea. The turtle caught on 9/20 was dropped @ 31°01'35"N and 81°12'56"W. The turtle caught Bridge Watch Summary on 9/21 was dropped @ 31°01'28"N and 81°12'43"W.

Species	# of Sightings	# of Animals	Comments

Observers On Duty: Meghan Piercy, Mary Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject St. Simon's Channel, Brunswick, GADAILY REPORTDate: 12/22/99Loads: 51-53Area(s) Worked (Stations & Lat/Long): 23+50 - 34+00Weather Conditions (air temp, wind dir & spd, beau,): overcast, seas=0-2, wind=NE@15-20Range of H₂O Temperature (C): Surface 60°F Below Mid-Depth 59°FCondition of all screening apparatus: EXCELLENTAre there incidents involving endangered or protected species? Yes No X

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

By mid-afternoon, theTrawler "Georgia Bulldog" arrived and began trawling channel
to remove any sea turtles in front of dredge. No turtles were caught.Dredged material consists of silt, mud.Biological Specimens retained by screening included: Dogfish,
Horseshoe Crabs, Blue crabs, Lightening whelks, whelk eggs, sea grass
and wood.Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observers On Duty: M. Piercy, M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject St. Simon's Channel, Brunswick, GADAILY REPORTDate: 12/23/99Loads: 54-63Area(s) Worked (Stations & Lat/Long): -23+00 to -34+00Weather Conditions (air temp, wind dir & spd, beau,): PLC - overcast, seas=1-3, wind=N@12-20kRange of H₂O Temperature (C): Surface 58°-60°F Below Mid-Depth 59°FCondition of all screening apparatus: EXCELLENTAre there incidents involving endangered or protected species? Yes X No _____

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

A Kemp's Ridley Sea Turtle (Lepidochelys kempii) was found in the forward port inflow during load # 63. This was not a fresh kill and the cause of mortality is unknown. It was tagged with #: SSW222.

The tagged flipper (left forward) was removed and stored in a freezer. See incident report. The remains were weighted down and disposed of at the dumpsite (on 12/24) at:

Other biological specimens retained by screening included: Horseshoe Crabs, Lightening Whelks, whelk eggs, Blue crab, sea grass, Bryozoans, Octopus, Sea whips, and wood.

Monofilament line, wire mesh and plastics were also retained.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observers On Duty: M. Piercy, M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge New PortProject St. Simon's Channel, Brunswick, GADAILY REPORTDate: 12/24/99Loads: 64-73Area(s) Worked (Stations & Lat/Long): -24+00 - -34+00Weather Conditions (air temp, wind dir & spd, beau,): clear skies, seas = 2-4, wind = NNW @ 7-30 knotsRange of H₂O Temperature (C): Surface 60°F Below Mid-Depth 59°FCondition of all screening apparatus: EXCELLENTAre there incidents involving endangered or protected species? Yes No X

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

Yesterdays Kemp's ridley carcas was weighted and disposed of at dump site
at 31°02'20"N and 81°17'04"WDredged material consists of silt, mud.Biological specimens retained by screening included: Horseshoe crabs,
Blue crabs, sea whips, sea grass, sea squirts, sea cucumbers, lightening
whelks, whelk egg cases, tubers, sea stars, scallops, unid'd fish,
and wood.Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>3</u>	<u>one individual was approaching disposal site and 2 were seen meeting up with a car carrier and riding its bow wake</u>

Observers On Duty: M. Piercy, M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NewportProject Brunswick GADAILY REPORTDate: 12/25/99Loads: 74-81Area(s) Worked (Stations & Lat/Long): STN -24+50 TO -34+00Weather Conditions (air temp, wind dir & spd, beau,): pt cloudy to clear; seas 3-6'; wind NW/NNW 17-25kRange of H₂O Temperature (C): Surface 57.0°F Below Mid-Depth 56.5°FCondition of all screening apparatus: GOODAre there incidents involving endangered or protected species? Yes No X

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

Material dredged was silt-like mud.Biological specimens retained in screening included:
Horseshoe crabs, scallops, seagrass, whelks, blue crabs,
oyster shells, and sea whip.Abiotic specimens retained by screen included:
plastic tape, wood debris, cloth, and plastic debrisThere were no encounters with endangered species todayGeorgia Bulldog caught no turtles today.Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>(Signature)</u>	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>
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Observers On Duty: M Hart, M Percy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: St. Simon's Channel, Brunswick, GA

DAILY REPORT

Date 12/26/99 Load Numbers 82-91

Area(s) Worked stations-24+50+0 -34+00

Weather Conditions (incl. sea conditions) clear-p/a, seas=2-3, Wind= SW @ 8-25

Range of Water Temp., Surface 56° F - Below Mid-Depth 56° F

Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species? YES NO

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Although there were no turtle takes, two old bones were found in loads 89 and 90. The lower mandible of either a Loggerhead or Kemp's Ridley was found in load 89 (- is wide, not serrated and not serrated; hooked). A hippastrop plate was found up in load 90.

Other biological specimens retained by screening included: Horseshoe crabs, Blue crabs, Lightening whelks, whelk egg cases, scallops, olive shells, sea cucumber, sea whips, sea grass, sea star, fish and wood.

Plastics, cloth monofilament line, burlap, aerobic discs were also retained.
"Georgia Bulldog" made 13 passes and got no turtles.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty M. Piercy, M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Week 2

3 TURTLES

Dredge: NewportProject: St. Simons Channel, Brunswick, GAWEEKLY SUMMARYDates 12/20/99 - 12/26/99 Load Numbers 36 - 91Range of Water Temp., Surface 56 - 60.5°F Below Mid-Depth 56 - 60°FAreas Worked (lat/longs, stations) Stations -22+50 to -34+00

Are there incidents involving endangered or protected species?

 YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

Three sea turtle carcasses were retained by screening, including:

- (1) 12/20/99 = subadult Loggerhead (*Caretta caretta*) = fresh kill (load # 45)
- (2) 12/21/99 = adult Loggerhead (*Caretta caretta*) = fresh kill (load # 50)
- (3) 12/23/99 = Kemp's Ridley (*Lepidochelys kempii*) = NOT fresh kill and cause of mortality cannot be definitively attributed to dredging activity. The Kemp's Ridley had a tag on its left foreflipper bearing the # SWW222. There was no fresh blood, the soft tissues were pink and notably soft to the touch. (load # 63)

After the second turtle was taken, dredging activity ceased until the services of the trawler, "Georgia Bulldog" were employed and they began work in the afternoon of 12/22/99. Their only catch was a Loggerhead Sea Turtle caught on 12/23/99 which was released further out to sea.

Other biological specimens retained by screening included:

Horseshoe crabs, Blue Crabs, Sea whips, sea grass, sea cucumbers, Lightening whelks, whelk eggs, tubers, sea stars, olive shells, scallops, Octopus, Bryozoans, dogfish and wood.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
*12/21	(12/21) <i>Caretta caretta</i> turtle was weighted & disposed of @ 31°01'35"N & 81°12'56"W	
*12/21	(12/21) <i>Caretta caretta</i> turtle was weighted & disposed of @ 31°01'28"N & 81°12'43"W	
12/20	<i>Tursiops truncatus</i> (Bottle nose dolphin) 40-50	= most feeding on shoal
*12/24	(12/23) Kemp's Ridley turtle was weighted & disposed of	@ 31°02'20"N & 81°17'04"W
12/24	<i>Tursiops truncatus</i> (Bottlenose dolphin) 3 total	1 @ dump & 2 riding wake of car carrier.
/		
/		

Observers on duty Meghan Percy, Mary Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick GADAILY REPORTDate 12 / 27 / 99 Load Numbers 92 - 102Area(s) Worked stn -24+00 TO -34+00Weather Conditions (incl. sea conditions) clear sky; seas 1-4 ft; wind SW/NW @ 5-15 ktsRange of Water Temp., Surface 51 - 51.5° F Below Mid-Depth 51 - 51.5° FCondition and Effectiveness of Screening GoodAre there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Material dredged was scif-like mud.

Biotic specimens retained by screening included: horseshoe crabs, sea grass, sea whips, whelks, whelk shells, blue crabs, sponges, hermit crabs, scallop, moonsnail, and sea cucumber.

Plastic, wood debris, palm debris, aburlap sack, rope, and monofilament line were also retained by screens.

Whale survey plane reported no sightings of right whales today.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>6</u>	<u>3 sightings: in the channel, in transit to dump site, 1/4 m. N of channel from buoy #6</u>

Observer(s) on duty M Hart, M Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: St Simons Channel, Brunswick, GA

DAILY REPORT

Date 12 / 28 / 99 Load Numbers 103-107

Area(s) Worked stations 24+00 to 34+00

Weather Conditions (incl. sea conditions) clear skies, wind= SW @ 10-17 knots, seas= 2-3

Range of Water Temp., Surface _____ Below Mid-Depth _____

Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material consists of silt and sand.

Biological specimens retained by screening included: Horseshoe crabs, sea whips, sea grass, whelks and whelk egg cases and wood.

Plastics were also retained.

The dredge went to the Brunswick dock to take on fuel and water between loads 104 and 105.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty M. Piercy, M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: St. Simon's Channel, Brunswick, GADAILY REPORTDate 12 / 29 / 99 Load Numbers 108 - 116Area(s) Worked Stations 24+oo to 34+ooWeather Conditions (incl. sea conditions) clear skies, Seas = 1'-2', Wind = WNW/ESE @ 5-20 knotsRange of Water Temp., Surface 47°-53°F Below Mid-Depth _____Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species?

YES

 NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material consists of sand and siltBiological specimens retained by screening included: Horseshoe crabs, Blue Crabs, shrimp, olive shells, sea grass, Skate, Lightening whelks, whelk egg cases, moon snails, sea whips, coral, and wood.Plastics and netting were also retained.Mary Hart departed and Jan Mackinnon replaced her this morning.Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	2	12:55 / 1/2 way to dump / mother calf pair
Red Jellies	20+	1/2 way to dump @ 12:55
13 Shrimp trawlers	in the area.	

Observer(s) on duty M. Piercy, J. Mackinnon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: St. Simons Channel, Brunswick, GA

DAILY REPORT

Date 12 / 30 / 99 Load Numbers 117-126

Area(s) Worked stations: -24+00 to -34+00

Weather Conditions (incl. sea conditions) clear skies, seas and air = calm

Range of Water Temp., Surface 47-50°F Below Mid-Depth

Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt/mud and sand.

Biological specimens retained by screening included: Horseshoe crabs, Blue crab, jellies (moon + red), whelks and whelk egg cases, olive shells, sea cucumbers, skate, sea whips, sea forks, whiting, stingray, and woodland sea grass.

Plastics were also retained.

11 shrimp trawlers working in the area.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>31-36</u>	<u>All around work area.</u>

Observer(s) on duty M. Piercy, J. Mackinnon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: St. Simon's Channel, Brunswick, GA

DAILY REPORT

Date 12 / 31 / 99 Load Numbers 127-135

Area(s) Worked stations: -24 fms to -34 fms

Weather Conditions (incl. sea conditions) winds: 0-15 kts, seas: 0-5, skies P/c - clear

Range of Water Temp., Surface 49°-50°F Below Mid-Depth _____

Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material consists of silt/mud and sand.

Biological specimens retained by screening included: Horseshoe crabs, Blue crabs, lightning whelks, whelk egg cases, Hermit crab, sea grass, sea cucumbers, sea pork, moonsnails, olive shells, jellies, cockles, shrimp, sea whip, Knobbed whelks, Channeled whelk, ~~and~~ corals, cannonball jellies, and wood.

NRNEWS called: a Northern Right whale was spotted @ 30°41'3"N and 80°14'6"W, which is 30+ miles from the area. therefore no nighttime speed limit was enforced

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>12 Shrimp Trawlers</u>	<u>Were working in the area</u>	
<u>Tursiops truncatus</u>	<u>7</u>	<u>in channel and fishing on shoal</u>
<u>Common Loon</u>	<u>1</u>	<u>13:50 between channel & disposal area. Winter plumage.</u>

Observer(s) on duty M. Piercy, J. Mackinnon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: St. Simons Channel, Brunswick, GADAILY REPORTDate 1 / 1 / 00 Load Numbers 136 - 143Area(s) Worked stations: -24 +00 to -34 +00Weather Conditions (incl. sea conditions) clear skies, -8°C, seas = 0-3, Wind = calm - 12 kts.

Range of Water Temp., Surface _____ Below Mid-Depth _____

Condition and Effectiveness of Screening _____

_____Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged materials consist of silt/mud and sand.Biological specimens retained by screening included: Whelks, whelk egg cases, olives, moon snails, Horseshoe crab, Blue crab, Hermit crab, flounder, skate, sea cucumbers, sea fork, sea grass, and wood.Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>3</u>	<u>1220 & 1300</u>

Observer(s) on duty M. Percy, J. MacKinnon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 02 / 00 Load Numbers 146-149

Area(s) Worked Station -24+00 to -34+00

Weather Conditions (incl. sea conditions) Winds SE to NNE @ calm to 12 kts, Seas calm, skies partly cloudy

Range of Water Temp., Surface 51-53° F Below Mid-Depth _____

Condition and Effectiveness of Screening _____

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material consist of silt/mud and sand.

Biological specimens retained by screening included:
Whelks, horseshoe crabs, sea grasses, blue crabs,
jetons, Whelk egg cases

Nonbiological specimens included wood and plastics.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops</u>	<u>4</u>	<u>0930 swimming east to dump</u>
	<u>1</u>	<u>0953 west of dump site</u>
	<u>3</u>	<u>1500 1/4 mile N of dump</u>

Observer(s) on duty Mackinon, M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Saint Simons Channel, Brunswick, GAWEEKLY SUMMARYDates 12/27/99 - 1/1/00 Load Numbers 92-149Range of Water Temp., Surface 47°-53°F Below Mid-Depth _____Areas Worked (lat/longs, stations) Stations: -24°F⁰⁰ to -34°F⁰⁰Are there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were no incidents with sea turtles this week and no sightings of large whales from the dredge.

Biological Specimens retained by screening included: Horseshoe crabs, Blue Crabs, Hermit Crabs, Whelks, whelk egg cases, Scallops, moonsnails, Sea cucumbers, Sea whips, Sponges, Sea grass, Olives, Shrimp, Coral, Skate, Sea pork, stingray, jellies, whiting, cockles, flounder, and wood.

Observer Mary Hart departed on 12/29/99 and was replaced by Jan Mackinnon.

There have been 11-13 shrimp trawlers working in the area this week.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
12/29	<u>Tursiops truncatus - 2</u>	<u>Mother/calf pair</u>
12/30	<u>Tursiops truncatus - 31-36</u>	<u>All around work area</u>
12/31	<u>Tursiops truncatus - 7</u>	<u>In channel + fishing on shoal</u>
12/31	<u>Common Loon - 1</u>	<u>Winter plumage - between channel + dump.</u>
1/1	<u>Tursiops truncatus - 3</u>	
1/2	<u>Tursiops truncatus - 7</u>	<u>Between dump + work area</u>

Observers on duty Meghan Piercy and Jan Mackinnon and Mary Hart (until 12/29).

TURTLE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick GA

DAILY REPORT

Date 01 / 03 / 00 Load Numbers 150-155

Area(s) Worked stn - 24+00 to -34+00

Weather Conditions (incl. sea conditions) winds N to SE @ 2-12 kts, seas calm skies clear-hazy

Range of Water Temp., Surface 51-54° F Below Mid-Depth _____

Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material consist of silt/mud and sand.

Biological specimens retained by screening included: whelks, whelk egg cases, sea pork, horseshoe crabs, sea whip coral, blue crab, eel sea grasses.

Abiotic materials retained include: plastics, wood rope.

* Rear flippers (connected) dredged up and found in port inflow.

Load #152

Cuticle intact on flippers. Bones connected appeared sandblasted.

Muscle tissue is pink - no dripping blood. Specimen frozen.

Observers estimate that the death occurred within previous 24 hrs.

Approximately 13 shrimp trawlers working in and around channel previous few days.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<i>Tursiops truncatus</i>	2 adults	12:05 1/2 way b/w buoy 6+8 on shoal
Red jellies	100+	14:35 @ dump site.

Observer(s) on duty Markinson M Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaDAILY REPORTDate 1/14/00 Load Numbers 156-165Area(s) Worked Stations: 24+00 to -34+00 and -34+00 to -40+00Weather Conditions (incl. sea conditions) Wind ESE shifting to W&N when front moved in. Clear→rain. Seas: 2-4Range of Water Temp., Surface 54°-55°F Below Mid-Depth _____Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species?

 YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

In load # 163, fragments of a *Caretta caretta* carapace and viscera were found in the starboard forward inflow screening. There were 3 pieces including:

(1) 2 vertebral scutes connected to bits of costal scutes and (2+3) 2 pieces of (thicker) costal scutes. Vertebrae and Viscera were also connected to the vertebral scutes.

* It is ~~very~~ likely that these pieces were from the *Caretta* taken on 12/21/99, as ~~they~~ they are virtually identical to the pieces missing from THAT turtle. (OR)
Perhaps they are from the same turtle whose hind flippers were found on 1/3/00.

Other biological specimens retained by screening included: Horseshoe crab, Blue Crab, sea stars, whelks, whelk egg cases, Horse Conch, sea pork, shrimp, scallops, and wood.

1/5/00 - These pieces probably belong to the *Caretta caretta* picked up on 1/5/00.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Red jellies	2	0910/ port side of vessel while heading east
Common Loon	2	12:37/ Flying south between dump + channel (^{winter} plumage)

Observer(s) on duty Meghan Piercy and Jan Mackinnon



ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: St. Simons Channel, Brunswick, GA

DAILY REPORT

Date 1 / 15 / 00 Load Numbers 167 - 177

Area(s) Worked stations: -34° to -40°

Weather Conditions (incl. sea conditions) clear sky, seas = 2-4, wind = NE-NW @ 10-20 knots

Range of Water Temp., Surface 54° - 56°F Below Mid-Depth

Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

A subadult Loggerhead Sea Turtle (*Caretta caretta*) was found in the port forward inflow screening upon completion of load # 173. See attached incident report for more details.

Other biological specimens retained included: Horseshoe crabs, Whelks, Blue Crab and Wood. A living eel was found on deck and returned to sea.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>10</u>	<u>12:20-13:15 / 1 fishing with gannets / a mother/calf pair / 3 fishing on shoal including one with a studded dorsal fin.</u>

Observer(s) on duty M. Piercy, J. MacKinnon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick Channel, Georgia

DAILY REPORT

Date 01 / 06 / 00 Load Numbers 178 - 184

Area(s) Worked stations -34+00 to -40+00, 16+750 to 19+50, 15+00 to 23+00

Weather Conditions (incl. sea conditions) winds N to NE @ 10-28 kts, seas 1-5', skies clear - overcast

Range of Water Temp., Surface 52 - 54 ° F Below Mid-Depth _____

Condition and Effectiveness of Screening Excellent

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Biological specimens retained in screening include : Horseshoe crabs, whelks, sea whip coral, whelk egg cases.

Other material dredged includes : wood, plastic, rope, cable

Due to rough seas and to try to avoid turtle takes, dredge moved inshore after load #181 to begin dredging cedar hammock, stations 16+750 to 19+500, approximately 0830. Dredge making one cut in section 2 (15+00 to 23+00) enroute dump site. Skimmers were raised making lander bottom difficult to see, therefore, loads were checked 3 times each; inside cut, outside cut and

Bridge Watch Summary

after disposal.

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>11:55 - 1/4 mile North of dump</u>
<u>Tursiops truncatus</u>	<u>2</u>	<u>13:55 - 150 feet off N shore of Jekyll Island (west of pier)</u>

Observer(s) on duty Jan MacLennan & Meghan Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick Channel, Georgia

DAILY REPORT

Date 01 / 07 / 00 Load Numbers 185-190

Area(s) Worked stations 11+750 to 19+50, 15+00 to 23+00

Weather Conditions (incl. sea conditions) winds NE to NW 2-20 kts, seas calm - 2' skies clear to H. rain

Range of Water Temp., Surface 52-53° F Below Mid-Depth _____

Condition and Effectiveness of Screening Excellent

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material consists of mud/silt and sand.

Biological specimens retained by screening include: Horseshoe crabs, sea whip coral, whelks, whelk egg cases, sea pork, flounder, scallops, sea glass, jellies and a one foot shark.

Other objects retained by screening include: wood, plastics and rope.

6 shrimp boats working in area.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>4</u>	<u>13:50 100 yds south of buoy #5 including calf - lots of thrashing.</u>

Observer(s) on duty _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick Channel, GeorgiaDAILY REPORTDate 01 / 08 / 00 Load Numbers 191-196Area(s) Worked Stations 16+750 to 19+50, 15+00 to 23+00Weather Conditions (incl. sea conditions) winds N to NNE 10-20 kts, seas calm to 4', skies overcast toRange of Water Temp., Surface 51-53° F Below Mid-Depth partly cloudyCondition and Effectiveness of Screening ExcellentAre there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material consists of mud/silt and sand.Biological specimens retained by screening include:horseshoe crabs, oysters, scallops, sea grasses, jellyfish,
sea whip coral, bryozoan, whelks, whelk egg cases.Other materials retained by screening include: plastics,
wood and trash.Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>0908: West of Jekyll Island pier.</u>
"	<u>2</u>	<u>0912: West of buoy 22 - cedar hammock</u>
<u>Red jellyfish</u>	<u>1</u>	<u>0735: NE of dump site</u>

Observer(s) on duty Jan Mackinnon, Meghan Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: St. Simon's Channel, Brunswick, GADAILY REPORTDate 1 / 19 / 00 Load Numbers 197 - 38Area(s) Worked 16⁺⁷⁵⁰ to 19⁺⁵⁰; 15⁺⁰⁰ to 23⁺⁰⁰ and -24⁺⁰⁰ to -40⁺⁰⁰Weather Conditions (incl. sea conditions) Fog all day until 17:00. Clearing. Seas = 0-1', Wind = N @ 5-10 mphRange of Water Temp., Surface * 56.5° - 56°F Below Mid-DepthCondition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species?

YES

 NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredge finished up Cedar Hammock area (station 15⁺⁷⁵⁰ to 23⁺⁰⁰ to 19⁺⁵⁰), then moved back out to -24⁺⁰⁰ to -40⁺⁰⁰.Biological specimens retained by screening included: Horseshoe crabs, Blue Crab, Whelks, sea grass, sea whip, sea whip coral, and wood.One empty can of beer (Bud Lite) was also retained.*The thermometer was damaged and not properly aligned with gauge since at least yesterday. A new thermometer was employed at 13:15 today & showed a significantly higher reading (66.5°F) than yesterday (51°F).Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Red Jellies	5	0945 + 1000 / NE & S of dump site.

Observer(s) on duty M. Piercy, J. Mackinnon.

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: St. Simons Channel, Brunswick, GAWEEKLY SUMMARYDates 1/13/00 - 1/19/00 Load Numbers 150 - 202Range of Water Temp., Surface 51° - 56.5°F Below Mid-DepthAreas Worked (lat/longs, stations) Stn: 24° 40' to 34° 00', 34° 00' to 40° 00', 16° 75' to 19° 50', 15° 00' to 23° 00', 34° 00' to 38° 00'Are there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were 3 incidents involving 2 Loggerhead sea turtles:

- (1) - 1/3/00: The rear flippers of a (probably juvenile) *Caretta caretta* were found in the port foreward inflow of load #152. This was a fresh kill.
- (2) - 1/4/00: Fragments of a *Caretta caretta* carapace were found in starboard forward inflow of load #163. These included 2 vertebral scutes with vertebrae and viscera and 2 pieces of costal scutes. These more than likely belong to the same turtle as the one found on 1/3/00 (given the presence of viscera).
- (3) - 1/5/00: The carcass of a subadult *Caretta caretta* was found in the forward port inflow of load #173. It was missing vertebral and costal scutes and was a fresh kill.

After the turtle take on 1/5/00, the dredge began work at Cedar Hammock, located inshore, in attempt to avoid more turtle takes while waiting for a cold front to move in. According to ACOE personnel, no turtles have been caught there in the past. Water temperatures appear to increase with the ebb tide and decrease with the flood tide (and have all along... I just thought it might be worth mentioning).

Other biological specimens retained included: Horseshoe crabs (lots), Blue crabs, whelks, whelk eggs, seapork, Horse conch, sea pork, shrimp, sea stars, scallops, sea whip, eel, flounder, jellies, small shark (dogfish?) and sea grass. Most specimens come from "offshore" while inshore specimens include mostly sea grass and Horseshoe crabs.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
1/13	<i>Tursiops truncatus</i> - 2 adults on shoal	
1/14	Common Loon - 2 in winter plumage flying south between channel and disposal area.	
1/15	<i>Tursiops truncatus</i> - 10 (fishing on shoal with Gannets, m/c pair + 1 w/ stumped dorsal fin)	
1/16	<i>Tursiops truncatus</i> - 4 (2 near dump, 2 near Jekyll Island pier)	
1/17	<i>Tursiops truncatus</i> - 4 (lots of thrashing, mother/calf pair present)	
1/18	<i>Tursiops truncatus</i> - 3 (between Jekyll Island pier and buoy 22)	

Observers on duty Meghan Piercy, Jan Mackinnon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: St. Simons Channel, Brunswick, GA

DAILY REPORT

Date 1 / 10 / 00 Load Numbers 203 - 212

Area(s) Worked Station: -34° to -40°

Weather Conditions (incl. sea conditions) clear → rain, seas = 1-2' w/ 3' swells, Wind = S → NW @ 3,

Range of Water Temp., Surface 56° - 57°F Below Mid-Depth _____

Condition and Effectiveness of Screening EXCELLENT

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Material dredged is sand and silt.

Biological specimens retained by screening have been minimal and included: Horseshoe crabs, cannonball jellies, spider crab, flounder, whelk, mussels, sea whip coral, sea star, Blue crab, wood with barnacles.

Plastics, crab pot and rock were also retained.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>5</u>	<u>13:20 / 15:40 / 13:03 / between disposal area and channel</u> <u>most amidst fishing Northern Gannets</u>
<u>Red Jellies</u>	<u>7</u>	<u>09:51 / 12:00 around work area</u>
<u>Common Loon</u>	<u>1</u>	<u>13:00 / S of channel in winter plumage.</u>

Observer(s) on duty Meghan Piercy, Jan Mackinnon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick Channel, GeorgiaDAILY REPORTDate 01 / 11 / 00 Load Numbers 213 - 221Area(s) Worked -34+00 to -40+00, -15+00 to -22+00Weather Conditions (incl. sea conditions) winds NW to SW 5-10 kts, seas calm to 3', skies clearRange of Water Temp., Surface 57° F Below Mid-DepthCondition and Effectiveness of Screening Excellent

Are there incidents involving endangered or protected species?

 YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- Material dredged continues to be mud/silt - (Send in stn: 715 to 22)
- 2 pieces of loggerhead (*Caretta caretta*) carapace found in port forward inflow on load #215, approximately 0610. Pieces consisted of:
 - ① 2 costal scutes, a small portion of vertebral scute and ~5 marginals
 - ② 1 costal, small section of vertebral and ~3 marginal scutes. Fatty tissue was present on the underside, blood vessels still intact, cuticle still intact, no strong odor. Samples were sent to the GADNR for further analysis - FRESH sample.
- Biological specimens retained in screening include: whelks, horseshoe crabs, flounder, sea pork, sea whip coral, scallops and sea grasses.
- Other materials retained in screening include: wood, plastics, crab pot, rock, fiberglass.
- 9 shrimp trawlers working in area.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Red Jellyfish	5 / 2000+	1047 dump site / 1325 1/2 way to dump
<i>Tursiops truncatus</i>	2	12:50 near buoy #12
<i>Tursiops truncatus</i>	3+ / 3	13:05 breaching near shoal / 1440 buoy #11
Common Loon	1	13:50 flying S toward dump - winter plumage

Observer(s) on duty Jan MacKinnon Meghan Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport
Project: Brunswick Channel, Georgia

DAILY REPORT

Date 01 / 12 / 00 Load Numbers 222 - 225

Area(s) Worked stations -15+00 to -20+00 and -12+50 to -22+50

Weather Conditions (incl. sea conditions) winds SE to SSW @ 5-10 kts, seas 1-3', skies clear

Range of Water Temp., Surface 60° F Below Mid-Depth _____

Condition and Effectiveness of Screening Excellent

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material continues to be mud/silt and sand.

Biological specimens retained by screening include: horseshoe crabs, whelks, sea stars.

Other materials retained by screening include: wood, fiberglass, chrome, rope, plastic.

Dredge spent morning at dock in order to refuel, take on water and conduct crew change. Observers went to DNR office to take photos of 1-11-00 incident and to discuss sea turtle decomposition

Bridge Watch Summary

With Mark Dodd.

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>1455 @ buoy #11</u>

Observer(s) on duty Jan Mackinnon, Meghan Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaDAILY REPORTDate 01 / 13 / 00 Load Numbers 226-231Area(s) Worked -12+50 to -22+50; -14+500 to -22+500Weather Conditions (incl. sea conditions) Winds: SW 5-20 K; BSS 3-4; Seas 1-4'; Temp: ~60°F
Cloud cover sparse to overcastRange of Water Temp., Surface 57-58°F Below Mid-Depth —Condition and Effectiveness of Screening Condition: Good Effectiveness: GoodAre there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles~ Dredged material consisted of mud, silt, sand, and shell fragments~ Biological samples included the following: horseshoe crabs, Zacky crabs, sea stars, whelks, cannonball jellies, oysters, scallops, pen shells, and moon snails~ Non-biological samples included wood, plastics, fiberglass, and ropeBridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>~5</u>	<u>1225 ~ 1/2 way between dumpsite and channel</u>
"	1	<u>1155 ~ heading South to "</u>
<u>Common Loon</u>	<u>3</u>	<u>1620 ~ 1/2 way b/w d.site and channel</u>

Observer(s) on duty K.A.E. Barber ~ M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 14 / 08 Load Numbers 232 - 236

Area(s) Worked -18 + 500 to -22 + 500

Weather Conditions (incl. sea conditions) Skies clearing; Winds: SW moving NE 15-20K; BSS 4-5;
Seas: 3-6' with surge

Range of Water Temp., Surface 57-58°F Below Mid-Depth —

Condition and Effectiveness of Screening —

Condition: Good Effectiveness: Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- ~ Material dredged included sand, mud, and silt
- ~ Biological samples included cannonball jellies, sea pork, whelks, and horseshoe crabs
- ~ Non-biological samples included wood, fiberglass, rope and plastic
- ~ Dredge was inshore for some time without activity working on the std. pump engine

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Ø</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>

Observer(s) on duty M. Piercy ~ K.A.E. Barber

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 25 / 00 Load Numbers 237-242

Area(s) Worked 718+500 to 22+500 ; 714+500 to 22+500

Weather Conditions (incl. sea conditions) Winds NE moving SE dying ~~15-25~~¹⁵⁻²⁵ K; Seas 1-4; BSS 3-4;
Skies: clear

Range of Water Temp., Surface 57-58°F Below Mid-Depth

Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ Dredged material included sand, mud, and silt

~ Biological samples included horseshoe crabs, moon snails, scallop shells, oyster, clam, cockle, helmet, and whelks

~ Non-biological samples included wood, rope, and plastics

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>O</u>		

Observer(s) on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / #16 / 00 Load Numbers 243-248

Area(s) Worked 14 + 500 to 22 + 500

Weather Conditions (incl. sea conditions) Winds: variable S-ISK; Seas 1-3'; skies clear BSS 3-2

Range of Water Temp., Surface 51-58°F Below Mid-Depth

Condition and Effectiveness of Screening

Condition: Good Effectiveness: Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles

~ Biological samples included horseshoe crabs, whelks, moon snails, pen shell, and sea whips (other shells also present)

~ Non-biological samples included wood, plastics, rope, rubber, net

~ Dredged material included mud, silt, shell fragments and an increasing percentage of sand

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2-3</u>	<u>1200 ~ digester - feeding behaviour</u>

Observer(s) on duty K.A.E. Barber / H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

WEEK 5

Dredge: NewportProject: Brunswick, GeorgiaWEEKLY SUMMARYDates 01 / 10 / 00 - 01 / 16 / 00 Load Numbers 203-248Range of Water Temp., Surface 51-60°F Below Mid-Depth —Areas Worked (lat/longs, stations) $34^{\circ}00'N$ to $40^{\circ}00'N$, $74^{\circ}50'W$ to $72^{\circ}50'W$, $15^{\circ}00'S$ to $20^{\circ}00'S$, $12^{\circ}50'E$ to $22^{\circ}50'E$ Are there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

~ There was one incident involving the take of a Loggerhead (Caretta caretta)Sea turtle, on 01-11-00. See incident report for more information.~ Material dredged has moved from a large percentage of mud and silt to a higher percentage of sand and shell.~ Biological specimens included the following: horseshoe crabs, cannonball jellies, spider crab, flounder, whelks, mussels, seahorses, coral, sea stars, blue crab, sea grasses, sea pork, and several shells including scallop, oyster, moon snail, clam, cockle, helmet, chambered and knobbed whelks, and pen shells. Cannonball jellies have been observed from the bridge daily.~ Non-biological samples included the following: crab pots, plastics, rope, wood, fiberglass, chrome, net, and rubber.Bridge Watch Summary

Date	Various Species and Respective Number	Comments
01 / 10	<u>Tursiops truncatus (Tt)</u>	<u>5</u>
01 / 10	<u>Common Loon (CL)</u>	<u>1</u>
01 / 11	<u>Tt</u>	<u>10+</u>
01 / 11	<u>CL</u>	<u>1</u>
01 / 12	<u>Tt</u>	<u>1</u>
01 / 13	<u>Tt</u>	<u>5+</u>
01 / 13	<u>CL</u>	<u>4</u>
01 / 16	<u>Tt</u>	<u>2-3</u>

Observers on duty J. Mackinnon, M. Piercy, K.A.E. Barber, H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaDAILY REPORTDate 01 / 17 / 00Load Numbers 249-254Area(s) Worked -14 +500 to -22 +500Weather Conditions (incl. sea conditions) Winds: WSW moving thru to ENE 5-15K; Seas: 1-4'; BSS; 2-4 SKies: clear-overcastRange of Water Temp., Surface 53°F / 12°C Below Mid-Depth _____Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species?

YES

 NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles~ Biological samples included: horseshoe crabs, whelks (and egg cases), with various shells and shell fragments~ Wood was also retained~ Material dredged consists mostly of sand with some mud and siltBridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>0951; Buoy #12</u>
"	<u>5-6</u>	<u>1500; Buoy #11</u>

Observer(s) on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 18 / 00 Load Numbers 255-262

Area(s) Worked -14°500 to -22°500; 21°500 to +32°500

Weather Conditions (incl. sea conditions) Winds: NW moving SW 5-15k; Seas 1-3'; BSS:3; skies overcast

Range of Water Temp., Surface 53°F / 12°C Below Mid-Depth

Condition and Effectiveness of Screening Good ~ Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- ~ There were no sightings of or incidents involving any whales or sea turtles
- ~ Material dredged has moved from sand, mud, and silt to thick mud/sludge, with a strong smell of sulfur and decomposition
- ~ Biological samples include the following: several (10+) horseshoe crabs, blue crab, sea pork, sea whips, jellies, sea cucumber, whelks (Knobbed) and Whelk egg cases.
- ~ Non-biological samples retained have been wood and other debris, metal, rope, plastics, nets, fabrics, and other various trash items.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Northern gannet</u>	<u>1</u>	<u>1240 ~ Buoy # 4</u>

Observer(s) on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 19 / 00 Load Numbers 263-272

Area(s) Worked 21⁺⁵⁰⁰ to 38⁺⁵⁰⁰

Weather Conditions (incl. sea conditions) Winds: SW-NE 'ly, 5-10KJ; Seas: 1-3', BSS: 2-3; overcast

Range of Water Temp., Surface 53°F ~ 12°C Below Mid-Depth 53°F - 12°C

Condition and Effectiveness of Screening

Condition: Good Effectiveness: Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ Material dredged has been thick mud/sludge with strong sulfur/decomposition odor

~ Biological samples include: Horseshoe crabs (10+), sponges, whelks, spider crab, blue crab, sea whip, and sea grasses

~ Non-biological samples include: wood, rope, plastics, various items of trash, and debris

~ There were no sightings of or incidents involving any whales or sea turtles

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2-3</u>	<u>1255 ~ en route to dump site -</u>
<u>T7</u>	<u>1</u>	<u>- buoy #7 -</u>

Observer(s) on duty K.A. E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 20 / 09 Load Numbers 273-282

Area(s) Worked 21°50' to 38°50', (green) side

Weather Conditions (incl. sea conditions) Winds: ESE → SW → WSW → NW'ly, 15-35k; Seas: 2-5'; Bss: 4-5
Skies clearing but remaining Partly cloudy

Range of Water Temp., Surface 53-54°F / 11.5-12°C Below Mid-Depth 53-54°F / 11.5-12.0°C

Condition and Effectiveness of Screening

Condition: Good Effectiveness: Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles.

~ Material dredged has consistently thick mud/sludge

~ Biological samples: Horseshoe crabs, whelks, olive, sponge, jellies, sea whip, blue crab, sea stars, mantis shrimp, cockle, scallop shells, and sea grasses.

~ Non-biological samples: wood, plastics, rope, and metal

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Ø</u>		

Observer(s) on duty K.A.E. Barber ~ H. Porge

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 21 / 00 Load Numbers 283-293

Area(s) Worked -21⁵⁰⁰ to -38⁵⁰⁰, Green side and mid-channel?

Weather Conditions (incl. sea conditions) winds: Nw>SW 5-23K; BSS: 3-4, seas: 1-4'; skies clearing

Range of Water Temp., Surface 52°F ~ 10.5°C Below Mid-Depth 52°F ~ 10.5°C

Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles.

~ Material dredged continues to be thick mud

~ Biological samples include: Horseshoe crab (15+), whelks, sea grasses, olive, blue crab, jellies, sponges, sea pork, sea whip, shrimp, ~~shark~~, ~~fish~~ squid, and fish.

~ Non-biological samples include: wood, trash, fabric, debris, and plastics

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>1-2</u>	<u>1334-</u>
<u>T7</u>	<u>1</u>	<u>1616~</u>

Observer(s) on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaDAILY REPORTDate 01 / 22 / 00 Load Numbers 293-301Area(s) Worked -21⁺⁵⁰⁰ to ± 38⁺⁵⁰⁰, Green, 2 cutsWeather Conditions (incl. sea conditions) Winds: Var 5-15Kdying; BSS 2-3, Seas: 1-3'; Partly Cloudy most of dayRange of Water Temp., Surface 55-57°F/12.5-13°C Below Mid-DepthCondition and Effectiveness of Screening GoodAre there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ Coast Guard Group Mayport (FL) broadcast a Right whale hunting group of 3 individuals, 81°03'818W, 31°00.710N, approx. 1115, direction of travel unknown

~ Material dredged has been thick mud

~ Biological samples: Horseshoe crabs (20+), jellies, sponges, sea whips, blue crab, whelks, whelk egg cases, sea stars (2 sp.), squid, fish, sea grasses, and sea pork

~ Non-biological samples include: wood, rope, metal, plastics, debris, material, net, and aluminum cans

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>1200 ~ Buoy #7 - one sig. sm. than other</u>
"	<u>1</u>	<u>1210 ~ Buoy #7 - diff. sighting, sep. ind.</u>
"	<u>2-5</u>	<u>in area of dig all day</u>

Observer(s) on duty K. A. E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 23 / 00 Load Numbers 302-310

Area(s) Worked 321+500 to 338+500; Greenside; 2 cuts

Weather Conditions (incl. sea conditions) Winds: SW-Sly 5-25K; BSS: 3-5; Seas: 1-4'; Skies Cloudy.
T-Storms moving in with rain

Range of Water Temp., Surface 57°F ~ 12.8°C Below Mid-Depth 57°F ~ 12.8°C

Condition and Effectiveness of Screening

Condition: Good Effectiveness: Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles

~ Dredged material has been thick mud and sand

~ Biological samples included: horseshoe crab (20+), sea whip, jellies, whelks,
sea grasses, sea pork, blue crab, long silver fish, and flatfishes

~ Non-biological materials included: wood, wire, plastics, debris, and material

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>1118 ~ Bay #5</u>
<u>Tt</u>	<u>1</u>	<u>1440~</u>
<u>Tt</u>	<u>1</u>	<u>1513~ ~ following shrimp trawler</u>

Observer(s) on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaWEEKLY SUMMARYDates 01 / 17 / 00 - 01 / 23 / 00 Load Numbers 249-310Range of Water Temp., Surface 52-57°F ~ 11.1-13.9°C Below Mid-Depth 52-57°F ~ 11.1-13.9°CAreas Worked (lat/longs, stations) 14°50'N to 22°50'; 21°50' to ± 32°50'Are there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

~ There were no sightings of or incidents involving any whales or sea turtles~ Coast Guard Group Mayport (FL) broadcast a Right Whale warning, mom and calf pair sighted, along with group of 3 individuals (separate sighting). Group of 3 ~ 31°00.7'N, 81°03.818'W, called in to Brunswick CCG by vessel Scooby Dog. Location of mom/calf pair unknown, though outside of our vicinity. Directions of travel for both sightings also unknown.~ Material dredged has been mostly mud with some sand.~ Biological samples included: horseshoe crabs (50+), whelks, whelk egg cases, blue crab, sea pork, sea whips, jellies, sea cucumber, sponges, spider crabs, sea grasses, olive shells, sea stars, mantis shrimp, cockle, scallop, and moon snails, squid, silver and flatfishes.~ Non-biological samples included: wood, wire, plastics, debris, fabric, material, rope, net, aluminum cans, metal, and trash. Bridge Watch Summary

Date	Various Species and Respective Number	Comments
01 / 17	<u>Tursiops truncatus</u> 2	0951 ~ Buoy #12
01 / 17	" 5-6	1500 ~ Buoy #11
01 / 19	" 2-3	1225
01 / 19	" 1	~ Buoy #7
01 / 21	" 1-2	1334
01 / 21	" 1	1616
01 / 22	" 3	1200-1210 ~ Buoy #7
01 / 22	" 2-5	in dredge area all day

Observers on duty K.A.E. Barber ~ H. Paige

01 / 23 " 3 total

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaDAILY REPORTDate 01 / 24 / 00 Load Numbers 310-317Area(s) Worked -21 + 500 to ± 38 + 500Weather Conditions (incl. sea conditions) Winds: Sily moving N.W. 2-40 K; Seas: 1' to 4' T; BSS: 2-5 Cloudy, hard rain, fog, T-stormsRange of Water Temp., Surface 57°F / 13.9°C Below Mid-Depth 57°F / 13.9°CCondition and Effectiveness of Screening GoodAre there incidents involving endangered or protected species? YESNO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- ~ There were no sightings of or incidents involving any whales or sea turtles
- ~ Biological specimens included: Horseshoe crabs, bluecrab, jellies, fish (silver, long), squid, sea grasses, whelks, sea whips, and shells
- ~ Non-biological specimens included: wood, debris, rope, net, trash, plastics, and plastic bottles.
- ~ Material dredged has been mud and sand
- ~ Dredge anchored @ 2240 for weather reasons

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>3</u>	<u>0905 ~ en route to channel from dig</u>

Observer(s) on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaDAILY REPORTDate 01 / 25 / 09 Load Numbers 318-322Area(s) Worked 321+500 to 381+500 Green side, two cutsWeather Conditions (incl. sea conditions) Winds: W'ly moving Nw'ly 10-25 k; BSS: 3-4, seas: 1-3'Range of Water Temp., Surface 55°F ~ 12.8°C Below Mid-Depth 55°F ~ 12.8°CCondition and Effectiveness of Screening GoodAre there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles

~ Dredged material consisted of sand and mud

~ Biological samples included: horseshoe crabs (20+), whelks, blue crab, spider crab, jellies, sea pork, sea whip, and shells

~ Non-biological matter consisted of: wood, plastics, debris, and trash

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
0		

Observer(s) on duty H.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 01 / 26 / 05 Load Numbers 323-330

Area(s) Worked -21+500 to -38+500; Green side

Weather Conditions (incl. sea conditions) Winds: NWly 15-30K; Seas: 1-4'; BSS: 3-5'; Skies P'ly cloudy
Clearing, T = ~38°F ~ 3.3°C

Range of Water Temp., Surface 54.5°F ~ 12.2-10.6°C Below Mid-Depth 54.5°F ~ 12.2-10.6°C

Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles.

~ Dredged material included sand and mud

~ Biological by-catch included: Horseshoe crabs, jellies, bluecrab, sea pork, sand crab, sea whips, whelks, olive, shells, fish, and 1 sting ray

~ Non-biological matter included: plastics, plastic buckets, wood, rope, debris, net, and trash

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, Georgia

DAILY REPORT

Date 61 / 27 / 09 Load Numbers 331 - 334

Area(s) Worked 21+500 to 238+500

Weather Conditions (incl. sea conditions) winds: NWly 5-25K; seas: 1-3'; BSS: 3-4'; p'ly & clear

Range of Water Temp., Surface 51°F / 10.6°C Below Mid-Depth 51°F / 10.6°C

Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ There were no sightings of or incidents involving any whales or sea turtles.

~ Material dredged has been sand and mud.

~ Biological specimens included: Horseshoe crabs, jellies, whelks, sea whips, sea pork, and fish

~ Non-biological materials retained included: rope, net, wood, debris, trash, and plastics

~ The dredge was anchored from 1000 to 2150 for maintenance and repair.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Ø</u>		

Observer(s) on duty K. A. E. Barber

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NEWPORT

Project: BRUNSWICK, GA

DAILY REPORT

Date 1 / 1 28 / 2000

Load Numbers 335-337

Area(s) Worked STATIONS -21+500 TO -38+500 GREEN SIDE

Weather Conditions (incl. sea conditions) CLEAR TURNING TO RAIN, N'LY WINDS 5-30 KTS, SEAS 2-5'

Range of Water Temp., Surface 51°F / 10.6°C Below Mid-Depth 51°F / 10.6°C

Condition and Effectiveness of Screening GOOD

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

MATERIAL DREDGED IS MUD & SILT.

BIOLOGICAL SPECIMENS: HORSESHOE CRABS, JELLYFISH,
WHELKS & EGG CASES, COCKLES, OLIVES, SCALLOP, SEA
PORK, SEA WHIP

ABIOTA: TRASH, PLASTIC, FISHING GEAR, WOOD, RUBBER

DREDGE AT ANCHOR 1000 TO 2150 HRS & 0955 TO 1100 HRS &
1433 HRS TO 0000 HRS FOR REPAIRS & WEATHER

Bridge Watch Summary

Species

of Animals

Time / Location / Comments

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Observer(s) on duty H. PAIGE; KAE. BARBER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NEWPORT

Project: BRUNSWICK, GA

DAILY REPORT

Date 1/129/2000 Load Numbers — At Dock

Area(s) Worked

Weather Conditions (incl. sea conditions)

Range of Water Temp., Surface Below Mid-Depth

Condition and Effectiveness of Screening

Are there incidents involving endangered or protected species? YES

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

DREDGE AT DOCK FOR REPAIRS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty H. PAIGE, K.A.E. BARBER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaDAILY REPORTDate 1/130/2000Load Numbers 338 (Turtle did not come from this load)Area(s) Worked -21+500 to -38+500 Red sideWeather Conditions (incl. sea conditions) Rainy, winds: NW 15-20 kts; Seas: 1-3'Range of Water Temp., Surface — Below Mid-Depth —Condition and Effectiveness of Screening Good

Are there incidents involving endangered or protected species?

 YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- ~ Dredge was clocked until late AM due to fog, awaiting bridge opening
- ~ Starting route to Savannah
- ~ Biological samples: wheel, horse shoe crab
- ~ Non-biological samples: trash
- ~ Material dredged = sand
- ~ Front flippers of a juvenile loggerhead sea turtle (though possible green due to single claw) were recovered from the starboard inflow screening while at the dock. See incident report for more information.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
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Observer(s) on duty H. Paige / K.A.E. Barber

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: NewportProject: Brunswick, GeorgiaWEEKLY SUMMARYDates 01 / 24 / 00 - 01 / 30 / 00 Load Numbers 311-338Range of Water Temp., Surface 57°F - 51°F / 13.9°C - 10.6°C Below Mid-Depth 57°F - 51°F / 13.9°C - 10.6°CAreas Worked (lat/longs, stations) -21°50' to -38°50' Green sideAre there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

- ~ Two front flippers of a juvenile? loggerhead, possible green, sea turtle were recovered from the stbd inflow screening on 01-30-00 while the dredge was at the dock. See incident report for more information.
- ~ The dredge was anchored at 2240 01-24-00 due to rough seas 1000-2150 01-27-00 for maintenance and repair 1433-0009, 0955-1100 01-28-00, weather and repair
- ~ The dredge docked late evening, 01-28-00 until late AM 01-30-00
- ~ Material dredged has been mud and sand
- ~ Biological by-catch included: Horseshoe crabs, blue crab, jellyfish, longsilver fishes, squid, sea grasses, whelks, sea whips, shells, spider crab, sea pork, zood crab, whelk egg cases, and 1 sting ray
- ~ Non-biological matter: wood, trash, plastics, fishing gear, net, rope, debris, plastic buckets, and bottles

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
01 / 24	<u>Tursiops truncatus</u>	3

Observers on duty K.A.E. Barber ~ H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Newport

Project: Brunswick, GA - Savannah, GA

DAILY REPORT

Date 01 / 31 / 00 Load Numbers 339-340, 1

Area(s) Worked Brunswick: 15+50, Red Side; Savannah: -30'oon to -34.5'oon, Redside

Weather Conditions (incl. sea conditions) *B: Winds: NW 8-15 kts; Seas: 1-3' ↓, BSS: 2-3'; Skies clearing,
S: Winds: NW 15 kts, Seas 1-2', clear skies

Range of Water Temp., Surface 49°F-9.4°C B; 48°F-8.9°C S Below Mid-Depth 49°F-9.4°C B; 48°F-8.9°C S

Condition and Effectiveness of Screening Good, Good

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~ Brunswick Project completed, Savannah Project begun

~ A bridge watch was maintained en route to new project site,
no whales or sea turtles sighted

~ Biological by-catch, Brunswick: h.s. crabs, jellies, and whelk
non-biological " : rocks, plastics, wood

~ Biological, Savannah: blue crabs, horseshoe crabs, sea stars
non: crab trap, wood, debris

~ Dredge lost stbd prop Q ≈ 1500, working on 1 engine

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
8		

Observer(s) on duty K.A.E. Barber ~