

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 14 / 95 Loads: 1-2

Area Worked: 130+00 to 245 and 160+00 to 265+00

Conditions: overcast, winds 10 kts, seas 3-4', heavy rain, water temp. 56°

Are there incidents involving endangered or protected species? Yes No

Comments: There were no incidents involving endangered species.
Arrival in Brunswick and Laura Morse was replaced by
Pete Westerman. Very little debris found in the boxes.
Aerial Survey was cancelled due to weather. Night speed 5 kts.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Pete Westerman, Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 15 / 95 Loads: 3-8

Area Worked: 130+00 to 245+00, 160+00 to 265+00, 1100 to 205, 145 to 210, -145 to -200

Conditions: ptly cloudy, seas ^{145 to -220, -145 to -200} 2-3', winds NE 5-15 kts, water temperature c 56°

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

Comments: There were no incidents involving endangered or protected species. Silty sand substrate. A humpback whale was sighted by the aerial survey crew (1/15) but was clear for right whales. The starboard TED needed to be completely rebuilt.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Pete Westerman, Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

WEEKLY SUMMARY

Dates: 1 / 9 / 95 - 1 / 15 / 95 Loads: 95-129, 1-8

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

Comments: There were no interactions with endangered species.

On 1-14-95, the Sugar Island traveled from Savannah to Brunswick, where Pete Westerman replaced Laura Morse. Starboard TED was completely rebuilt on 1-15-95. 1-11-95 Seagull was injured in stbd Skimmer and euthanized. 1-12-95 vessel traveled to port to refuel. The substrate in Savannah was mud with clay, shell debris and horseshoe crabs and in Brunswick it's silty with sand with little debris.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tt</u>	<u>2</u>	<u>playing in the wake of the Hudson River</u>
<u>Tt</u>	<u>10-15</u>	<u>associated with gannets & gulls</u>
<u>Tt</u>	<u>2</u>	<u>in Savannah River (proper) 10 feet off coast of Tybee Island</u>

Observers On Duty:
Pete Westerman
Kathy Knueger
Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 16 / 95 Loads: 9-18

Area Worked: -145+00 to -220+00 Red, and -345+00 to -370+00

Conditions: Overcast, winds SW 10 knots, seas 1-2', water temp. 56 degrees.

Are there incidents involving endangered or protected species? Yes No

Comments: Clean sand loads with very little material. Aerial survey called
in at 1300 and reported no sightings. Observers had no incidents
or sightings to report. The only material sampled was a few horseshoe
crabs scraps of rope, fishing net, cloth, and pieces of wood.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 17 / 95

Loads: 19-26

Area Worked: -145+00 to -220+00

Conditions: Clear, winds N 5 knots, seas 1-2', water temp. 55 degrees.

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

Comments: Aerial survey reported all clear at 1130. Two blue crabs, some
sea pork and a horseshoe crab were found with rope, fishing net, cloth
wire, and wood debris, in a fine sand and shell material. Two hours
were spent welding a broken padeye and other problems on the starboard
TED.

Bridge Watch Summary

Species	No. of animals	Comments
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Peter Westerman, Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 18 / 95

Loads: 27-34

Area Worked: -145+00 to -220+00

Conditions: Overcast, winds variable to E 5 knots, seas calm to 1' water temp.
55 degrees.

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

Comments: A wide variety of material was found that included sea cucumbers,
sea pork, cannonball jellyfish, eels, sea grass, blue crabs, spider-
crabs, horseshoe crabs, egg casings, whelks, and marine worms. These
were all found in a fine sand and shell material. There were no incident
or sightings by observers or aerial survey.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kathy Krueger, Pete Duley

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 20 / 95 Loads: 40-44

Area Worked: -215+00 to -280+00 Red and Green

Conditions: Clear, winds SW 10-15 knots, seas 2', water temp. 56 degrees.

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

Comments: Dredging in a new area with lots of sea grass, garbage, and wood debris. The new material being dug is a dark soupy clay mixed with an extremely heavy thick grayish clay. Starboard discharge boxes had to ^{be} opened during load#43 due to clogging. The screening covering the port-side skimmer collapsed during this load, so there is no sampling being done on the port-side skimmer. The lateral screening had an abundance material that damaged the screens to the point where they had to be replaced the next day. American eels, spider crabs, seapork, cannonball jellyfish, horseshoe crabs, blue crabs, and whelk egg casings were all found in large numbers. The hydraulic system was being worked on so the dragarms were not brought in and had to be visually inspected from the spilldeck.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Pete Duley, Lisa Conger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 21 / 95 Loads: 45-48

Area Worked: -215+00 to -280+00 Red and Green

Conditions: Clear, winds W 10-15 knots, seas 2-4', water temp. 56 degrees.

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

Comments: Both TEDs were removed after load # 45 after approval from
NMFS. Loads continue to be a dark soupy clay with an abundance
of sea life. Whelks, sea cucumbers, crabs, eels, cannonball jellyfish,
sea grass, horseshoe crabs, and sea whips were found in large
numbers. There were no incidents or sightings to report.

Bridge Watch Summary

Species	No. of animals	Comments
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Peter Westerman, Lisa Conger

ENDANGERED SPECIES OBSERVER PROGRAM
 NATCO - Dredge Sugar Island
 Brunswick Harbor Entrance Channel
 1995

WEEKLY SUMMARY

Dates: 1/16/95 - 1/22/95 Loads: 9-53

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: There were two Right Whale sightings of a mother/calf pair by the aerial survey. One sighting was 3 miles south of the Brunswick Channel dumpsite and the other was 2 miles north of the Kings Bay Channel. It is not known if this was the same pair or not. The first sighting was located at 31°59.1 N, 81°20.3W, spotted on 1/19/95 at 1220. The ship travelled at 5 knots from dusk till dawn and there were no further sightings. The second sighting was two days later at 30°43.7 N and 81°81.5 W where a Right Whale mother/calf pair were spotted travelling SE at 11330. The dredge dug in 3 different locations, the last being very rich in sea life. Spider crabs, blue crabs, sea pork,

Bridge Watch Summary

continued

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observers On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM
NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

WEEKLY SUMMARY

Dates: ___/___/___ - ___/___/___ Loads: _____

Are there incidents involving endangered or protected species?

continued-

Yes _____ No _____

Comments: sea cucumbers, wheels, egg casings, horseshoe crabs,
cannonball jellyfish, marine worms, and eels were all found in
abundance. The material was a dark soupy clay with large amounts
of sea grasses mixed with wood, garbage and a thick heavy grey clay,
which caused the port skimmer to collapse and the lateral screening
to be replaced. Both TEDs were removed after approval from NMFS
before load # 46. Aside from the two Right Whale sightings there
were no incidents. The water temperature varied between 55 and 56
degrees.

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>3</u>	<u>spotted near buoy # 5 green.</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observers On Duty:

Peter Westerman

Kathy Krueger

Pete Duley

Lisa Conger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar ISLAND /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 19 / 95

Loads: 35-39

Area Worked: -145+00 to -220+00

Conditions: Partly cloudy, winds E 5 knots, seas 1' water temp. 55 degrees.

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

Comments: Right Whale mother and calf spotted by aerial survey approximately
3 miles south of the Bruswick Channel dumpsite. They were spotted at
1220 at 31° 59.1 N by 81° 20.3 W. A 5 knot limit was followed from dusk
until dawn. There were no further sightings of the pair.

Biological material found was similar to the previous days
findings which included sea cucumbers, sea pork, cannonball jellyfish
, eels, sea grass, spider crabs, blue crabs, horseshoe crabs, egg casings
whelks, and marine worms.

Bridge Watch Summary

Species	No. of animals	Comments
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Peter Westerman, Pete Duley

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Sugar Island / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 22 / 95 Loads: 49-53

Area Worked: -215+00 to - 280+00 Red and Green, -150+00 to -160+00 back and fill

Conditions: Clear, winds W 10 knots, seas 1-3', water temp. 56 degrees.

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

Comments: Right Whale mother and calf sighted at 30°43.7 N by 81°81.5 W, which is located about two miles north of the dogleg in the Kings Bay channel. The pair was last sighted travelling SE and no reduction in speed was necessary. There was a change of material when the dredge moved to a new location, The new material was a fine sand almost devoid of debris. Material to replace the screening on top of the skimmer should arrive in the next few days.

Bridge Watch Summary

Species Tt	No. of animals ³	Comments	spotted near buoy # green ⁵
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Peter Westerman, Lisa Conger

ENDANGERED SPECIES OBSERVER PROGRAM
NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

DAILY REPORT

Date: 01 / 23 / 95 Loads: 54 - 59

Area Worked: -150+000 - -160=000 (between buoys 8 & 12)

Conditions: clear, winds W-ly 10 - 25 kts., seas 1'-4', temp. 36⁰ - 52⁰F

Are there incidents involving endangered or protected species?

Yes _____ No x

Comments: Digging very clean sand. All new overflow screening is in
good condition. The port skimmer has not been screened -
materials arrive tomorrow. No marine mammal sightings. Sighting
conditions deteriorated in the afternoon. The aerial survey
team flew 90% of the survey with no sightings. We will not
travel at slow bell tonight.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Lisa Conger, Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 01 / 24 / 95 Loads: 60 - 62

Area Worked: -150+000 -160+000 (between buoys 8 & 12)

Conditions: clear, winds W-ly 10-20 kts., seas 1-4', temp. 38° was low
sea temp. 54°F

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Dredging very clean sand. Virtually nothing is
being sampled. Only trash is being retained in the inflow boxes.
The port skimmer is still not screened.

The aerial survey team had no sightings to report.

Observers are keeping a bridgeward in transit to the disposal
site. Sighting conditions are not very good.

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>3</u>	<u>near dig area (bottlenose dolphin)</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Lisa Conger, Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

DAILY REPORT

Date: 01 / 25 / 95 Loads: 63 - 66

Area Worked: -150+000 - -210+000

Conditions: clear, winds 0-12, kts. var., seas 0'-3', temp 40^o-49^oF

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Dredging very clean sand. Sample consisted of very few
cannonball jelly fish and some horseshoe crab parts. The port
skimmer is still not screened.

Aerial survey sighted no right whales within the
boundaries of this job site. Observers kept bridgeward during
transit to disposal area and while Sugar Island was off shore
working on a steering problem.

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>2</u>	<u>near sea buoy</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Lisa Conger, Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 01 / 26 / 95 Loads: 67 - 71

Area Worked: -150+000 - -210+000; +207+000 - +179+000

Conditions: clear, winds WSW 5-15 kts., seas 1'-2', temp. 60°F
sea temp. 54°F

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Dredging up more debris today, though we are in the
same area. Also dredged in cedar hammock for one load until five
minute overflow limit. Port skimmer remains unscreened. Sample in-
cluded: sea cucumber, cannonball jellyfish, worm casings, horse-
shoe crabs, sea whip, hog chokers, whelks, other vegetation, and
trash.

Aerial survey crew reported no sightings today.

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>1</u>	<u>near dig area</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Lisa Conger Peter Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge SUGAR ISLAND / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 27 / 95

Loads: 72-73

Area Worked: STATIONS -280 TO -215, CEDAR HAMMOCK

Conditions: OVERCAST w/ RAIN, S WIND 5-10 kt, SEAS 1-2'
AIR TEMPERATURE = 56°F

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

Comments: DREDGE SUGAR ISLAND WAS FUELING FROM 0900 UNTIL
1500. DREDGING RESUMED AT 2312 AFTER WORK WAS
COMPLETED ON THE STEERING MECHANISM.

AERIAL SURVEY REPORTED NO WHALE SIGHTINGS.

SCREENING ON PORT SKIMMER REPLACED.

ALL SCREENING IN PLACE AND IN WORKING ORDER.

Bridge Watch Summary

Species	No. of animals	Comments
_____	_____	<u>NO SIGHTINGS REPORTED</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. GATZKE & P. WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge SUGAR ISLAND / NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 28 / 95 Loads: 74-78

Area Worked: STATIONS -215 TO -280, CEDAR HAMMOCK

Conditions: CLEAR -> CLOUDY W/ RAIN, S -> NW WIND 5-10KT, SEAS CALM
WATER TEMPERATURE = 55°F

Are there incidents involving endangered or protected species? Yes No

Comments: MATERIAL BEING DUG IS A MIXTURE OF SAND, MUD
AND A DARK CLAY FULL OF BIOLOGICAL DEBRIS.
SAMPLES INCLUDE HORSESHOE CRABS, JELLY FISH,
WHELKS, SHRIMP, SEA CUCUMBERS, SEAGRASS AND
TRASH.

NO WHALE SIGHTINGS REPORTED FROM AERIAL SURVEY
AT 1300.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>0830 SIGHTING BY BUOY 5</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. GATZKE & P. WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge SUGAR ISLAND /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 1 29 / 95

Loads: 79-81

Area Worked: STATIONS -280 TO -210

Conditions: OVERCAST w/ CALM WIND AND SEA

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

Comments: WHALE SURVEY PLANE REPORTED TO DREDGE MCFARLAND
(KINGS BAY, GA) THAT THERE WERE NO SIGHTINGS.

MINIMAL DEBRIS ACCUMULATING IN THE VARIOUS
SCREENING STRUCTURES. DIGGING A SAND/MUD
MIXTURE WITH BIOLOGICAL SAMPLES INCLUDING
HORSESHOE CRABS, SEA GRASS, SEA CUCUMBER,
JELLYFISH, SHRIMP, EELS, BLUE CRABS, CROAKER
AND WOOD. LATERAL SCREENING CLEANED
AND REPAIRED.

Bridge Watch Summary

Species	No. of animals	Comments
<u><i>Tursiops truncatus</i></u>	<u>2</u>	<u>0915 SIGHTING AT DIG SITE</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. GATZKE & P. WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge SUGAR ISLAND /NATCO
Brunswick Harbor Entrance Channel

WEEKLY SUMMARY

Dates: 1 / 23 / 95 - 1 / 29 / 95 Loads: 54 - 81

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

Comments: ALL NEW OVERFLOW SCREENING WAS INSTALLED AND REPAIRED
THROUGHOUT THE WEEK. THE PORT SKIMMER WAS RE-SCREENING
SHORTLY AFTER THE PREVIOUS SCREENING COLLAPSED (6 DAYS
ELAPSED)

DREDGE WAS FUELING FROM 0900 - 1500 ON 1/27. DREDGING
RESUMED AFTER WORK WAS COMPLETED ON STEERING
MECHANISM.

AERIAL SURVEYS REPORTED THAT THERE WERE NO WHALES
IN THE AREA; THEREFORE THERE WERE NO SPEED
RESTRICTIONS.

MATERIAL CONSISTED OF SAND, MUD AND CLAY WITH VERY
LITTLE BIOLOGICAL DEBRIS. CEDAR HAMMOCK WAS DUG
FOR SHORT PERIODS (5 MIN. OVERFLOW) ON SEVERAL DAYS
WITH AN INCREASE IN BIOLOGICAL MATERIAL. SAMPLES
CONTAINED MOSTLY HORSESHOE CRABS, JELLYFISH, WHELKS,
SEA CUCUMBERS, VEGETATION AND WOOD.

Bridge Watch Summary

Species	No. of animals	Comments
<u>Tursiops truncatus</u>	<u>3-6</u>	<u>SIGHTED ON VARIOUS DAYS NEAR DIG</u> <u>SITE</u>
_____	_____	_____
_____	_____	_____

Observers On Duty:

JENNIFER GATZKE
PETER WESTERMAN
LISA CONGER

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

DAILY REPORT

Date: 1 / 30 / 95 Loads: 82-85

Area Worked: Station -215+00 to -280+00

Conditions: Overcast, winds NW 10-15 knots seas 1-2'
seawater 54°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: aerial survey called in at 1540 with no
sightings. The material being dredged was a grayish, fine
sand with little material. The debris sampled was
primarily wood, garbage and whelk shells. Living
material included sea grass, horseshoe crabs,
eels, green + brown sea cucumbers, cannonball
jellyfish and a flounder.

Bridge Watch Summary

Species	# of animals	Comments
<u>IT+</u>	<u>1</u>	<u>sighted near buoy #3</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerm, Jennifer Gatzke

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

DAILY REPORT

Date: 2 / 1 / 95 Loads: 91-95

Area Worked: Station -235+00 to -285+00

Conditions: Clear, winds W 10-15 knots, seas 1', seawater 53°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: There were no incidents or sightings to report. The material being dredged was a fine silty sand with little material. Whelks, green + brown sea cucumbers, cannonball jellyfish, sea grass wood and garbage was the only material sampled.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 2 / 95 Loads: 96-104

Area Worked: Station -235+00 to -285+00

Conditions: Clear, winds N-NW 10-15 knots, seas 2-3'
seawater 53°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: aerial survey called in at 1015 and 1600 with
no sightings. Starboard discharge boxes had to be opened
during load #97 due to clogging from light gray clay.
There was a wide variety of sea life sampled including
horseshoe crabs, cannonball jellyfish, sea pork,
knobbed whelks, blue crabs, parchment worm casings,
seagrass and eels.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 3 / 95 Loads: 97-104

Area Worked: Station 235+00 to 285+00

Conditions: Clear, wind W 10-15 knots, seas 1', seawater 53

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Material dredged continued to be a heavy gray clay that clogged the discharge boxes and filled the skimmer screens with 2 feet of clay balls. The boxes needed to be periodically checked and opened.

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>7</u>	<u>sighted near buoys #5 and #7</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 4 / 95 Loads: 105-108

Area Worked: Station -235+00 to -285+00

Conditions: Partly cloudy, winds NW 25-30 knots, seas 3'-4'
seawater 53°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: No survey was conducted due to
severe winds, so a 5 knot limit was in effect from
dusk until dawn. Material was a fine gray silt
with no material.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 5 / 95 Loads: 109-115

Area Worked: stations -235+00 to -235+00 and -160+00 to -205+00

Conditions: Clear, wind W 10 knots, seas 1' seawater 53° with a five minute overflow

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: The dredge dug inside the channel with a 5 minute overflow. Sea whips and sea-grass were the only material sampled.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM
NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

WEEKLY SUMMARY

Dates: 1 / 30 / 95 - 2 / 5 / 95 Loads: 82-115

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: a Right whale mother and calf were spotted on two separate occasions 1.31.95. They were spotted 1 mile NE of the channel at 1045 and approximately 1 mile south of the channel at 1530. The location was 31° 06.7N by 81° 17.7 W, which near the eastern end of the channel. The second sighting was on a return trip from the dump when the pair was spotted about 500 feet off of the port bow. The ship immediately slowed speed and informed the Padre Island which was following approximately 1/2 miles behind. The Padre Island slowed speed and altered course away from the pair. There were no further sightings

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>8</u>	<u>sighted near buoy #3,5,7</u>
_____	_____	_____
_____	_____	_____

Observers On Duty:

Peter Westerman

Jennifer Gatzke

Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM
NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

WEEKLY SUMMARY

Dates: 1/30/95 - 2/5/95 Loads: 82-115

Are there incidents involving endangered or protected species?

continued Yes _____ No X

Comments: until the next week. The material dredged varied from a fine gray silt, to coarse sand with thick clay mixed in, to a soupy dark clay on the last day of the week. The only material found in the dark thin clay, which had a 5 minute overflow were sea whips and sea grasses. Otherwise the debris remained a fairly constant variety of cannonball jellyfish, knobbed whelks, green and brown sea cucumbers, eels, horseshoe crabs, parchment worm casing, sea grass blue crabs, garbage and wood. There were two nights where the ship ran at 5 knots due to a Right Whale sighting or lack of a survey due to high winds. Seawater varied from 53° to 55° degrees.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observers On Duty:

Peter Westerman

Jennifer Gatzke

Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 1 / 31 / 95 Loads: 86-90

Area Worked: 215+00 to 280+00

Conditions: Clear, Winds NW 10-15 knots, seas 2-5', seawater 54°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: a Right Whale mother and calf were spotted on two separate occasions near the Brunswick dig sight. The pair was first spotted by the aerial survey at 1045 1 mile NE of red buoy #4. It was seen at this location, (31° 06.7N 81° 17.7W.) several times over the next hour and a half. The pair was spotted again at 1530 on the way back from the dumpsite. The ship was following a course parallel to green buoy #2 and the western edge of the dumpsite when the pair was spotted 500 feet off of the port bow. The ship immediately slowed speed and informed the Padre Island which was following 1/2 miles behind. The Padre Island slowed speed and altered its course away from the pair.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman Jennifer Gatzke

ENDANGERED SPECIES OBSERVER PROGRAM
NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

WEEKLY SUMMARY

Dates: 1/30/95 - 2/5/95 Loads: 83-115

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: a Right whale mother and calf were spotted on two separate occasions 1.31.95. They were spotted 1 mile NE of the channel at 1045 and approximately 1 mile south of the channel at 1530. The location was 31° 06.7 by 81° 17.7 W, which near the eastern end of the channel. The second sighting was on a return trip from the dump when the pair was spotted about 500 feet off of the bow. The ship immediately slowed speed and informed the Padre Island which was following approximately 1/2 miles behind. The Padre Island slowed speed and altered course away from the pair. There were no further sightings

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>8</u>	<u>sighted near buoy #3, 5, 7</u>
_____	_____	_____
_____	_____	_____

Observers On Duty:

Peter Westerman

Jennifer Gatzke

Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

DAILY REPORT

Date: 1 / 31 / 95 Loads: 86-90

Area Worked: 215+00 to 280+00

Conditions: Clear, Winds 'NW 10-15 knots, seas 2-3', seawater 54

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: a Right Whale mother and calf were spotted on two separate occasions near the Brunswick dig sight. The pair was first spotted by the aerial survey at 1045 1 mile NE of red buoy #4. It was seen at this location (31° 06.7' N 81° 17.7' W) several times over the next hour and a half. The pair was spotted again at 1530 on the way back from the dumpsite. The ship was following a course parallel to green buoy #2 and the western edge of the dumpsite when the pair was spotted 500 feet off at the port bow. The ship immediately slowed speed and informed the Padre Island which was following 1/2 miles behind. The Padre Island slowed speed and altered its course away from the pair.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman Jennifer Gatzke

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 7 / 95 Loads: 123-130

Area Worked: Station - 165+00 to 205+00

Conditions: Overcast, winds variable, seas calm, water 50°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Aerial survey called in twice, at 0940 and 1025 with no sightings. Material continued to be a dark soupy clay with little debris. Sea whips and sea grass were the only debris sampled. Dredging is limited to a five minute overflow.

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>14</u>	<u>sighted throughout the day at buoy #19</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 8 / 95 Loads: 131-137

Area Worked: station -165+00 to -205+00

Conditions: Clear, winds NW 25-30 knots, seas 3-5' water 50'

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: There was no aerial survey due to high winds, so the vessel travelled at 5 knots from sunset to sunrise. The material dredged is a thin dark clay and is limited to a 5 minute overflow. Sea whips and various marsh grasses are the primary contents sampled, with occasional eels, crabs and herring found interspersed in the thick layers of vegetation.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 9 / 95 Loads: 138-144

Area Worked: Stations -175+00 to -190+00 and -280+00 to -400+00

Conditions: Clear, winds S 5 knots, seas 1', water 50°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Whale survey called in at 1000, and 1150 with no sightings. Material dug inside the channel continues to be a dark soupy clay with only sparse debris. Material dredged at this location is only allowed to overflow 5 minutes.

The vessel moved out to mid-channel during the afternoon. Shrimp, eels, lady crabs, archbivalves, various polychaetes and parchment worm cases were all found in the new location. Whelks, sea grasses, wood and garbage were the most common items found. The material was also a dark soupy clay in the second location.

Bridge Watch Summary

Species	# of animals	Comments
<u>T+</u>	<u>6</u>	<u>2T+ at dumpsite, 4 at buoy #1a</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 10 / 95 Loads: 145-150

Area Worked: station -200+00 to -375+00

Conditions: Overcast, winds SW 10-12 knots, seas 2', water 51°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: aerial survey called at 1140 with no sightings. Material is a thin dark clay with methane gas trapped inside. The only debris sampled was various sea grass and a parchment worm case. There was a fire and boat drill followed by a safety meeting at 1230.

Bridge Watch Summary

Species	# of animals	Comments
<u>T7</u>	<u>2</u>	<u>buoy #4</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 11 / 95 Loads: 151-155

Area Worked: Station -230+00 to -375+00

Conditions: Partly cloudy, winds NE 10 knots, seas 1'-2', water 50°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: aerial survey called in at 1320 with no sightings. Material dredged is a thin dark clay with almost no material. The vessel took on fuel from 1200 to 1630. During this time the skimmers, discharge boxes and lateral screens were cleaned and repaired as needed.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 12 / 95 Loads: 156-161

Area Worked: Station - 280+00 to -375+00

Conditions: Overcast, winds E.-NE. 10-12 knots, seas - 2' water 5

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Survey called in at 1130 with no sightings.
The starboard dragarm was repaired during loads
#157 and #158. The material dredged was a thin
dark clay with almost no debris.

Bridge Watch Summary

Species	# of animals	Comments
<u>3T+</u>	<u>3</u>	<u>spotted near buoys #3, #5</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM
 NATCO - Dredge Sugar Island
 Brunswick Harbor Entrance Channel
 1995

WEEKLY SUMMARY

Dates: 2/6/95 - 2/12/95 Loads: 116 - 161

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: A Right Whale mother and calf were spotted twice by the aerial survey over a two-hour period, 7-miles from the Brunswick dumpsite. Their last sighting was at 30.25, 5 N by 81.52, 5 W. They had travelled 1/2 mile in a two hour period. The vessel was dredging in two locations, digging very similar material. It was a soupy dark clay with organic debris and trapped methane gas. The material sampled was primarily vegetation, wood, and garbage. The biological specimens included horseshoe crabs, 3 types of eels, blue crabs, lady crabs, herring, whelks, sea whips, sea pork, various polychaetes, bryozoans, arch bivalves, shrimp, parchment worm cases and in the Bridge Watch Summary greatest abundance, cannonball jelly fish.

continued

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observers On Duty:

Peter Westerman

Kim Powell

John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

WEEKLY SUMMARY

Dates: 2/6/95 - 2/12/95 Loads: 116-161

Are there incidents involving endangered or protected species?
continued

Yes _____ No X

Comments: There were two nights the vessel travelled at slow speeds due to the whale survey. One was on the 6th when a mother and calf pair of Right Whales were found 7 miles from the Brunswick dumpsite, and the other was ~~on~~ the 8th when there was no survey due to high winds. When the vessel was digging inside the channel near the Jekyll Island pier it was restricted to five minutes overflow. The seawater temperature varied between 50°-51° degrees.

Bridge Watch Summary

Species	# of animals	Comments
<u>Tt</u>	<u>30+</u>	<u>these were spotted equably from the Jekyll Island pier to the Brunswick dumpsite.</u>
_____	_____	_____
_____	_____	_____

Observers On Duty:

Peter Westerman

John Knecht

Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

DAILY REPORT

Date: 2 / 6 / 95 Loads: 116-122

Area Worked: station -160+00 to -205+00

Conditions: clear, winds W-SW 10-12 knots, seas 1-2', water 51°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: a Right whale mother and calf were spotted by the aerial survey at approximately 7 miles S-SW of the Brunswick dumpsite. The pair were spotted at 1400 and 1615 and had travelled about 1/2 a mile in that 2 hour period. Their last location was 30.25.N by 81.52.SW. The dredge has been digging inside, the near the Jeckyll Island pier where it has been restricted to a five minute overflow. The material is a dark soupy clay with turricates, brown shrimp, whelks, & horseshoe crabs found in large amounts of vegetation.

Bridge Watch Summary

Species	# of animals	Comments
<u>T+</u>	<u>4</u>	<u>spotted by buoy 19</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, Kim Powell

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island

Brunswick Harbor Entrance Channel

1995

DAILY REPORT

Date: 2 / 13 / 95 Loads: 162 - 168

Area Worked: Station -280+00 to -375+00

Conditions: Overcast/rain; winds NE 15 knots, seas 2-3'
water 51°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: Aerial survey called in at 1130 with
no sightings. Material has changed to a fine
silty sediment that is neither clay nor sand.
This loam-like material left no debris besides
sea pork and a few clay balls.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

DAILY REPORT

Date: 2 / 14 / 95 Loads: 169-175

Area Worked: Station -280+00 to -375+00

Conditions: Clear, winds NE 10-12 knots, seas 2', water 51°

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: aerial survey called in at 1200 with no sighting. Material is a dark thick clay with methane gas and almost no debris.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: Peter Westerman, John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM
NATCO - Dredge Sugar Island
Brunswick Harbor Entrance Channel
1995

WEEKLY SUMMARY

Dates: 2/13/95 - 2/14/95 Loads: 162-175

Are there incidents involving endangered or protected species?

Yes _____ No X

Comments: There were no incidents or sightings of targeted species. The material dredged was similar to the previous weeks, only there was very little debris sampled. Sea pork and some light gray clay balls were the only objects found in the dark soupy clay material.

Bridge Watch Summary

Species	# of animals	Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observers On Duty:

Peter Westerman

John Knecht