ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 1/30/98 Loads: 1-5 Bridge Watch: Start Time 0700 End _____

Area(s) Worked: STATION -21+500 to -15+500

Weather: Beau. Sea State 0-3 Wind Dir. W Wind Speed 0-8K Cloud Cover(%) 0-10%

H_2O Surface Temp. 55°F Air Temp. 70° (H) 52° (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
T+	5	1345	SE corner of dump site - all leaping

Comments or Incidents of Concern? Excellent visibility - Perfect conditions for observing whales - / No whales observed by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance, GA

DAILY REPORT

Date: 1/31/98 Loads: 444-448 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATIONS -21+500 to -15+500

Weather: Beau. Sea State 2-4 Wind Dir. S-SSW Wind Speed N-NE Cloud Cover(%) 0-10%

H_2O Surface Temp. 55 °F Air Temp. 62°F (H) 49°F(L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Excellent visibility - No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/1/98 Loads: 454-458 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATIONS 21+500 to 15+500

Weather: Beau. Sea State 4-5 Wind Dir. NE-E Wind Speed 15-20K Cloud Cover(%) 0-25%

H_2O Surface Temp. 55°F Air Temp. 60° (H) 36° (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
T+	2	1000	East of Buoy 10 - swimming towards dredge
T+	1	1030	(enroute to dump) At dump
T+	2	1215	East of Buoy 6 en route to dump - swimming towards dredge

Comments or Incidents of Concern? Excellent visibility - choppy seas - No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

Marine Mammal Sighting Information

Dredge Eagle I

Project Brunswick Harbor Entrance (1/30/98 - 2/1/98)
Savannah River Entrance (1/26/98 - 1/29/98)

WEEKLY SUMMARY

Dates: 1/26/98 - 2/1/98 Range of H_2O Surface Temperature: 53°-55° F

Area(s) Worked: Savannah = 40+500 to 46+500 Brunswick = 21+500 to 15+500

Were there large whale species sighted within 0.25 nautical mile of the dredge (list date, time, sighting #)?

No

Summary of All Cetacean Sightings

Date	Time	Species	Comments
1/28/98	1413	T+	1 swimming & leaping near Buoy 8
1/30/98	1345	T+	5 leaping SE corner of dump site
2/1/98	1000	T+	2 swimming toward dredge - E of Buoy 10
2/1/98	1030	T+	1 swimming at dump
2/1/98	1215	T+	2 swimming towards dredge - E of Buoy 6

Comments: Visibility ranged from poor (<1 mile due to fog) to excellent with sea state ranging from calm to rough (Beaufort Sea states 0-7)

Observers On Duty: PETER WESTERMAN, CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge Eagle I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2 12 98 Loads: 464-467 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATION 21+500 to 15+500

Weather: Beau. Sea State 4-5 Wind Dir. E-NE Wind Speed 15-20K Cloud Cover(%) 100%

H_2O Surface Temp. 54°F Air Temp. 63°F(H) 52°F(L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Good visibility - choppy seas - No whales sighted by survey plane!

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge Eagle I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/3/98 Loads: 473-476 Bridge Watch: Start Time 0700 End 1530

Area(s) Worked: STATION 21+500 to 15+500

Weather: Beau. Sea State 4-8 Wind Dir. E-SE Wind Speed 11-40K Cloud Cover(%) 100-50

H_2O Surface Temp. 56°F Air Temp. 73°F(H) 62°F(L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility poor to fair with heavy rain at times - less than 1000' to 2½ miles - Seas rough at dump near 8' in AM subsiding to 5' in the PM - No whales sighted - No aerial survey

(see atttached page)

Observer(s) On Duty: Cathy Sakas

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Happy Birthday to me!

Date: 2/4/98 Loads: 479-484 Bridge Watch: Start Time 0700 End 1530

Area(s) Worked: STATIONS 21+500 to 15+500 and 31+000 to 21+500

Weather: Beau. Sea State 5-8 Wind Dir. W-NW Wind Speed 20-40 Cloud Cover(%) 100

H_2O Surface Temp. 55° F Air Temp. 61° (H) 41° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
T+	5	1430	Swimming towards dredge near Buoy #5

Comments or Incidents of Concern? Blustery day in Beaufort - Visibility good - Rough seas - Not whales sighted - No Aerial survey

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2 15 198 Loads: 489-493 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATION 21+500 to 31+000

Weather: Beau. Sea State 4-5 Wind Dir. NW Wind Speed 15-25K Cloud Cover(%) 50 to 0%

H_2O Surface Temp. 54°F Air Temp. 54°F (H) 41°F (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility excellent - seas choppy - No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/6/98 Loads: 500-503 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATION 31^{+000} to 21^{+500} & LOAD 502 only 21^{+500} to 15^{+500}

Weather: Beau. Sea State 2-4 Wind Dir. N Wind Speed 5-15 K Cloud Cover(%) 50-100% *

H_2O Surface Temp. 54°F Air Temp. 56°F (H) 42°F (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
Tt	3	1315	E of Buoy 14 - surfacing & diving & apparently playing - observed for 8 minutes

Comments or Incidents of Concern? Excellent visibility - calm seas - * Cirrostratus cloud coverage - prime conditions for spotting whales - No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SARAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/7/98 Loads: 506 - 510 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATION 31^{+000} to 20^{+000} (L.#506 & 507) - STATION 31^{+000} to 21^{+500} (L.#508-510)

Weather: Beau. Sea State 4-5 Wind Dir. N-NW Wind Speed 10-20 Cloud Cover(%) 100% *

H_2O Surface Temp. 53.5°F Air Temp. 57°F (H) 46°F (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility excellent
Seas choppy
* Stratocumulus cloud coverage, no glare
No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/8/98 Loads: 518-521 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATION 21+500 to 31+000

Weather: Beau. Sea State 3-4 Wind Dir. NE NNW Wind Speed 15-20 Cloud Cover(%) 50-100% *

H_2O Surface Temp. 53°F Air Temp. 60°F (H) 48°F (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility good to excellent

Seas choppy

* Altostratus clouds

Very little glare on water

No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

Marine Mammal Sighting Information

Dredge EAGLE I

Project Brunswick Harbor Entrance

WEEKLY SUMMARY

Dates: 2/2/98 - 2/8/98 Range of H_2O Surface Temperature: 53°F - 56°F

Area(s) Worked: 15+500 to 21+500 and 21+[illegible] to 31+[illegible]

Were there large whale species sighted within 0.25 nautical mile of the dredge (list date, time, sighting #)?

NO

Summary of All Cetacean Sightings

Date	Time	Species	Comments
2/4/98	1430	7+-5 Bottlenose dolphins	Swimming towards dredge near Buoy #5
2/6/98	1315	7+-3 Bottlenose dolphins	E of Buoy 14 surfacing & diving apparently playing - observed for 8 minutes

Comments: Visibility generally good to excellent throughout week. Feb 3 was the exception with heavy rain, fog and very rough seas.

Observers On Duty: CATHY J. SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/9/98 Loads: 527-530 Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: STATION 21+500 to 31+000 LOAD #530 = 15+000 to 17+500 (AM) (PM)

Weather: Beau. Sea State 2-3 Wind Dir. NW-N-NE Wind Speed 5-12K Cloud Cover(%) 100-25% *

H_2O Surface Temp. 53°-54.5°F Air Temp. 56°F (H) 52°F (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility excellent

Seas calm

* Altocumulus clouds, no glare in AM with 100% cloud coverage - clouds changing to cumulo-stratus in PM with glare at 25% coverage. Superb conditions for spotting whales - None sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAIKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge Eagle I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/10/98 Loads: * Ø Bridge Watch: Start Time 0700 End 1730

Area(s) Worked: * On anchor

Weather: Beau. Sea State 3 Wind Dir. NW Wind Speed ~10K Cloud Cover(%) 0-15%

H_2O Surface Temp. 54°F Air Temp. 64° (H) 52° (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
TT	4	1730	Just off Plantation Creek (St. Simons Is) at anchor - dolphins swimming inshore

Comments or Incidents of Concern? * On anchor for refueling and maintenance from 0609 to after 1730!
No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/11/98 Loads: 543-548 Bridge Watch: Start Time 0700 End 1820

Area(s) Worked: STATION 21+500 to 31+000

Weather: Beau. Sea State 2-5 Wind Dir. SE-S-SSW Wind Speed 5-20K Cloud Cover(%) 75-100% *

H_2O Surface Temp. 53.5°-54.5° Air Temp. 60° (H) 52° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility excellent

Seas choppy to rough

* Altocumulus clouds high & thin, high glare in AM - total coverage in PM, no glare - No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/12/98 Loads: 555-561 Bridge Watch: Start Time 0700 End 1830

Area(s) Worked: STATIONS 31+000 to 21+500 & 39+000 to 31+000

Weather: Beau. Sea State 3-4 Wind Dir. NW Wind Speed 10-20K Cloud Cover(%) 0-10%

H_2O Surface Temp. 54°-55.5° Air Temp. 69° (H) 55° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility excellent
Seas choppy
Few clouds high glare
No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Yipes! Friday the 13th!

Date: 2/13/98 Loads: 570 - 576 Bridge Watch: Start Time 0700 End 1830

Area(s) Worked: STATION 39+000 to 31+000

Weather: Beau. Sea State 2-3 Wind Dir. E-N-NW-W Wind Speed 5-15K Cloud Cover(%) 100% *

H_2O Surface Temp. 54°-54.5° Air Temp. 64° (H) 53° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility good to fair

Seas calm to choppy

Altocumulus clouds thick, no glare, occasional rain

No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Happy Valentine's Day!

Date: 2/14/98 Loads: 585-588 Bridge Watch: Start Time 0700 End 18:30

Area(s) Worked: STATION 31^{+000} to 21^{+500} (L# 585-586) / 26^{+500} to 28^{+500} (L# 587-588)

Weather: Beau. Sea State 3-4 Wind Dir. NW-N Wind Speed 10-15 Cloud Cover(%) 15-100%

H_2O Surface Temp. 53.5°-54.5° Air Temp. 68° (H) 50° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? Visibility excellent

Seas choppy

* Cirrostratus clouds 15% coverage in AM high glare - 100% coverage in PM still high glare

No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/15/98 Loads: 593-597 Bridge Watch: Start Time 0700 End 1830

Area(s) Worked: STATIONS 31+000 to 39+000

Weather: Beau. Sea State 5-7 Wind Dir. NE Wind Speed 20-30K Cloud Cover(%) 100% *

H_2O Surface Temp. 53°-54.5° Air Temp. 58° (H) 55° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
T+	1	0820	Near Buoy 4 - swimming near bow

Comments or Incidents of Concern? Visibility good in AM, poor in PM
Seas about 8-10'
* Cirrostratus, 100% in AM & PM, no glare
No whales sighted - No aerial Survey

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

Marine Mammal Sighting Information

Dredge EAGLE I

Project Brunswick Harbor Entrance

WEEKLY SUMMARY

Dates: 2/9/98 - 2/15/98 Range of H_2O Surface Temperature: 53.5°-55.5°F

Area(s) Worked: STATIONS 15^{+000} to 17^{+500}; 21^{+500} to 31^{+000}; 31^{+000} to 39^{+000}

Were there large whale species sighted within 0.25 nautical mile of the dredge (list date, time, sighting #)?

NO

Summary of All Cetacean Sightings

Date	Time	Species	Comments
2/10/98	1730	T+ - Bottlenose dolphins	Just off Plantation Creek (SSI) while at anchor - swimming inshore
2/15/98	0820	T+ " "	Near Buoy "4" - swimming near bow

Comments: Visibility excellent most of the time, good to fair on the 13th and good to poor on the 15th - Seas mostly calm to choppy, rough on the 15th with the 8-10' waves, Sea states ranged from 2 to 7 mostly 2 to 4 - Winds mostly NE to N to NW on the 11th SE to SSW, speed varied from 5 to 30 knots - Clouds mostly altocumulus with 2 days of cirrostratus with coverage ranging from 0 to 100%, averaging at 65% - At anchor from 0609 to after 1730 on the 10th for refueling and maintenance - No whales sighted and none reported by survey plane for dredging area

Observers On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/16/98 Loads: 601 - 605 Bridge Watch: Start Time 0700 End 1830

Area(s) Worked: STATIONS 31+000 to 39+000 & 19+000 to 17+000

Weather: Beau. Sea State 6-8 Wind Dir. SE Wind Speed 15-35K Cloud Cover(%) 100%

H_2O Surface Temp. 53°-55° Air Temp. 68° (H) 57° (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? AM = Visibility POOR (< 600' in AM) heavy rain, high winds (~30K), rough seas 6-8', 100% coverage of low stratus clouds, some fog - PM = Visibility fair (> 1 mile), no rain, winds subsiding (~15-20K), seas choppy 4-6', 100% coverage of low stratus clouds, no glare - No whales sighted - no aerial survey (see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/17/98 Loads: 607 - 610 Bridge Watch: Start Time 0700 End 1830

Area(s) Worked: STATIONS 39+000 to 26+000

Weather: Beau. Sea State 3-4-5 Wind Dir. SW-W Wind Speed 10-20K Cloud Cover(%) 25-090

H_2O Surface Temp. 54.5°-56.75° Air Temp. 72° (H) 57° (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? AM = Visibility excellent, winds abating to ~10K seas abating after a very rough night of high winds (50-60K & waves at 12') seas ~4', scattered clouds, high glare, brief period (30 min) of sea fog PM = Visibility excellent, seas calming 3', high scattered Stratocumulus clouds, high glare. No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/18/98 Loads: 1615 - 1618 Bridge Watch: Start Time 0700 End 1830

Area(s) Worked: STATIONS 16+500 to 15+500, 39+000 to 31+000, 17+000 to 19+000

Weather: Beau. Sea State 3-4 Wind Dir. W-NW Wind Speed 15-20K Cloud Cover(%) 0%

H_2O Surface Temp. 55°-57° Air Temp. _____(H) 57°(L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
0			

Comments or Incidents of Concern? AM: Visibility excellent, seas choppy, winds out of the west 15-20K, no clouds, high glare PM: same as above No whales sighted By survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/19/98 Loads: 623-626 Bridge Watch: Start Time 0645 End 1840

Area(s) Worked: STATIONS 17+000 to 19+000

Weather: Beau. Sea State 2-3 Wind Dir. W-NW-S Wind Speed 8-15K Cloud Cover(%) 0-100% *

H_2O Surface Temp. 55.5°-58° Air Temp. 65° (H) 53° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments
T+	1	0705	N. of Cedar Hammock - surface diving
T+	1	1125	Inshore of Buoy 17 - surface diving
T+	2	1130	At Buoy 15 - swimming inshore

Comments or Incidents of Concern? AM = Visibility fair - fog, seas calm, winds W ~ 8K, no clouds, high glare - visibility excellent by 10am with fog burned off

PM = Visibility excellent, seas calm ≤1', winds NW 5-10K, 50-100% stratus* clouds, moderate to no glare - No whales sighted by survey plane

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/20/98 Loads: 1631 - 1636 Bridge Watch: Start Time 0645 End 1845

Area(s) Worked: STATIONS 31+300 to 33+200

Weather: Beau. Sea State 3-4 Wind Dir. WNW-NW Wind Speed 10-20K Cloud Cover(%) 0-10%

H_2O Surface Temp. 56°-58° Air Temp. 76° (H) 59° (L) Celsius _____ Farenheit X

Sighting # 1. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 2. Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Sighting # 3 . Time _____ Vessel Location (lat/long) _____ X _____

Species Observed _____ # of Animals _____

Comments: _____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? AM= Visibility excellent, winds WNW at 10-15K, 0-10% cloud coverage, scattered cumulus clouds, high glare

PM= Visibility excellent, winds NW at 15-20K 10% cloud coverage, scattered cumulus clouds, high glare

No whales sighted by survey plane in our area (Survey plane reported 1 adult + 1 calf Right whales 29-01.3N 080-52.2W heading S) (see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

WHALE OBSERVATION DATA

Dredge EAGLE I

Project Brunswick Harbor Entrance

DAILY REPORT

Date: 2/21/98 Loads: 640- 641 Bridge Watch: Start Time 0645 End 1000

Area(s) Worked: STATIONS 33+200 to 31+300

Weather: Beau. Sea State 2-3 Wind Dir. N Wind Speed 10-15K Cloud Cover(%) 10% *

H_2O Surface Temp. 56°-58° Air Temp. 72° (H) 56° (L) Celsius _____ Farenheit X

Sighting # 1. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 2. Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Sighting # 3 . Time_____ Vessel Location (lat/long)_____ X_____

Species Observed_____ # of Animals_____

Comments:_____

Summary of Small Cetacean Sightings

Species	# of Animals	Time	Location & Comments

Comments or Incidents of Concern? AM= visibility excellent, winds N 10-15k, seas choppy 1-2', 10% cirrus* cloud coverage, high alive.

Dredging for project ceased at 0910 when final load #1641 was dumped.

(see atttached page)

Observer(s) On Duty: CATHY SAKAS

ENDANGERED SPECIES OBSERVER PROGRAM

Marine Mammal Sighting Information

Dredge EAGLE I

Project Brunswick Harbor Entrance

WEEKLY SUMMARY

Dates: 2/16/98 - 2/21/98 Range of H_2O Surface Temperature: 53°-58°F

Area(s) Worked: STATIONS 10^{+500} to 15^{+500}, 17^{+000} to 19^{+000}, 26^{+000} to 39^{+000}, 31^{+000} to 39^{+000}, 31^{+300} to 33^{+900}

Were there large whale species sighted within 0.25 nautical mile of the dredge (list date, time, sighting #)?

NO

Summary of All Cetacean Sightings

Date	Time	Species	Comments
2/19/98	0705	Tt - Bottlenose dolphin - 1	N. of Cedar Hammock - surface diving
2/19/98	1125	Tt - " " - 1	Inshore of Buoy 17 - surface diving
2/19/98	1130	Tt - " " - 2	At Buoy 15 - swimming inshore
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Comments: Visibility generally excellent (Friday visibility poor to fair due to large low pressure creating fog, high winds and rough seas) - Most of week winds 10-20K SW-NW with generally clear skies - Surface temperature has risen steadily to a high of 58°F +/- No whales have been sighted by survey plane (nor by dredge observer).

Project ended at 0906 when last load (#1641) was dumped.

Observers On Duty: CATHY SAKAS