ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW 21-02-C-0008 **Maintenance** ___ **/New Work** ✓ **PROJECT start date** 11/14/05

PROJECT NAME: Brunswick Entrance Channel Deepening **DREDGE NAME:** Eagle One

DREDGE FIRM: BEAN

LOAD #: 01 **LOAD start date:** 11/14/05 **Times (24hrs): Start** 0958 **End** 1326

Condition of screening : **Port** Good **Starboard** Good **Overflow** None

Number of dragheads in use: 2 **Type of dragheads used:** THC Standard **Size of dragheads:** 9 ft wide

Draghead deflector? YES ✓ **NO** ___ **Condition of deflector:** GOOD

Type of material dredged: Sand / Mud

Weather conditions: partly cloudy winds light

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: .5 ft **Wind (speed & direction):** SW 5-7 kts.

AIR TEMP: 75.9 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ___ °C/°F **Column (mid-depth)** 65°F °C/(°F) **Bottom** N/A °C/°F

SCREEN TYPE						
100%	**Inflow screening:**	None	25%	50%	75%	(100%)
___	**Overflow screening:**	(None)	25%	50%	75%	100%
___	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clean

STARBOARD SCREEN CONTENTS: clean

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ___
- **Shark (any species)** ___
- **Horseshoe crab** ___
- **Blue crab** ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 09:15 pod of tursiops truncatus ~50m outside of channel E of buoy 13, 14 (portside of dredge) (surfacing); 09:30 Tursiops truncatus (2) just inside channel @ buoy 14 (diving)
→ trawler Winds of Fortune made 4 passes of dig site before start of project (0 turtles taken)

Number observers used/24hrs: 2 **100 % Monitoring/24 hrs: None 25% 50% 75% (100%)**

Observer's name: Patricia Kuczynski **Observer firm** REMSA INC

Observer signature Patricia Kuczynski

Karen Underkoffler

Karen Underkoffler

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C-0008 Maintenance ___ /New Work ✓ PROJECT start date 11-14-05

PROJECT NAME: Brunswick Channel Entrance DREDGE NAME: EAGLE 1

DREDGE FIRM: BEAN

LOAD #: 02 LOAD start date: 11/14/05 Times (24hrs): Start 1512 End 1831

Condition of screening : Port good Starboard good Overflow None

Number of dragheads in use: 2 Type of dragheads used: IHC Standard Size of dragheads: 9ft wide

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Sand / Mud

Weather conditions: Sunny breezy

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1 =) 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 3-8 knots

AIR TEMP: 70.5 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) 65°F °C/°F Bottom N/A °C/°F

SCREEN TYPE

100%	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	(None)	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: large skate

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Karen Underkoffler Observer firm REMSA INC.

Observer signature Karen Underkoffler

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C-0008 Maintenance ___ /New Work ✓ PROJECT start date 11-14-05

PROJECT NAME: Brunswick Channel Entrance DREDGE NAME: EAGE 1

DREDGE FIRM: BEAN

LOAD #: 03 LOAD start date: 11-14-05 Times (24hrs): Start ~~1934~~ 1934 End ~~2032~~ 2032

Condition of screening : Port Good Starboard Good Overflow N/A

Number of dragheads in use: 2 Type of dragheads used: IHC Standard Size of dragheads: 9ft wide

Draghead deflector? YES ✓ NO ___ Condition of deflector: good

Type of material dredged: sand / mud mixed with clay

Weather conditions: Night cool breezy

Tidal stage (CIRCLE ONE): Slack Rising (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	~~3 = 7-10 knot/ 2 ft~~	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	~~4 = 11-16 knot/ 4 ft~~	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): S 12 knots

AIR TEMP: 71.1 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) 65°F °C/(F) Bottom N/A °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	(None)	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: whelk shell, clay, cloth

draghead: clay, penshell, arc clam, giant Atlantic cockle

STARBOARD SCREEN CONTENTS: whelk shell, clay

draghead: clay, knobbed whelk shell

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Karen Underkoffler Observer firm REMSA INC

Observer signature Karen Underkoffler

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C0008 Maintenance ___ /New Work ✓ PROJECT start date 11/14/05

PROJECT NAME: Brunswick Entrance Channel Deepening DREDGE NAME: Eagle One

DREDGE FIRM: BEAN

LOAD #: 04 LOAD start date: 11/15/05 Times (24hrs): Start 01:23 End 03:58

Condition of screening : Port Good Starboard Good Overflow None

Number of dragheads in use: 2 Type of dragheads used: IHC Standard Size of dragheads: 9 ft wide

Draghead deflector? YES ✓ NO ___ Condition of deflector: Good

Type of material dredged: mud/sand mixed w/ numerous small mollusc shell and some clay aggregates

Weather conditions: mostly cloudy and calm seas, clearing by the end of the dig

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: .5 ft Wind (speed & direction): 4-6 kts.

AIR TEMP: 70.3 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ___ °C/°F Column (mid-depth) 66 °C/(°F) Bottom ___ °C/°F

SCREEN TYPE

100% Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	(None)	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 2 Limulus polyphemus, knobbed whelk shell, palmetto, rope, rock, clay, oyster shell

draghead: driftwood, cockle shell, clay, channel whelk shell

STARBOARD SCREEN CONTENTS: oyster shell & electrical wire

draghead: clay

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 2

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 100 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Patricia Kusmierski Observer firm REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C0008 Maintenance ✓/New Work ✓ PROJECT start date 11/14/05

PROJECT NAME: Brunswick Entrance Channel Deepening DREDGE NAME: Eagle One

DREDGE FIRM: BEAN

LOAD #: 05 LOAD start date: 11/15/05 Times (24hrs): Start 05:44 End 0923

Condition of screening : Port Good Starboard Good Overflow None

Number of dragheads in use: 2 Type of dragheads used: IHC Standard Size of dragheads: 9 ft wide

Draghead deflector? YES ✓ NO ___ Condition of deflector: Good

Type of material dredged: mud/sand mixed with numerous small mollusc shell and clay aggregates

Weather conditions: mostly clear

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1) = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: .25 ft Wind (speed & direction): 1-3 kts.

AIR TEMP: 68.7 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ___ °C/°F Column (mid-depth) 66 °C/(°F) Bottom ___ °C/°F

SCREEN TYPE 100% Inflow screening: None 25% 50% 75% (100%)

✓ None Overflow screening: (None) 25% 50% 75% 100%

Stationary screening on two aft outlets at base of hopper but (no outflow) Other screening: None 25% 50% 75% 100%

PORT SCREEN CONTENTS: 2 Limulus polyphemus, palmetto, knobbed whelk, coquina clam shell, clay

overflow screen: 2 Limulus polyphemus draghead: channel whelk shell, clay

STARBOARD SCREEN CONTENTS: northern quahog shell, oyster shell, coquina clam shell, clay

overflow screen: driftwood draghead: PVC pipe, palmetto, clay

2 cannonball jelly in hopper

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab (4)

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 06:15 moved for ship traffic, resumed @ ~07:15

Number observers used/24hrs: 2 100% Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Patricia Kusnierski Observer firm REMSA, INC.

Observer signature Patricia Kusnierski

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C0008 Maintenance ___ /New Work X PROJECT start date 11/14/05

PROJECT NAME: Brunswick Entrance Channel Deepening DREDGE NAME: Eagle One

DREDGE FIRM: BEAN

LOAD #: 06 LOAD start date: 11/15/06 Times (24hrs): Start 1126 End 1309

Condition of screening : Port Good Starboard Good Overflow N/A

Number of dragheads in use: 2 Type of dragheads used: IHC Standard Size of dragheads: 9 ft wide

Draghead deflector? YES ✓ NO ___ Condition of deflector: Good

Type of material dredged: SAND/MUD

Weather conditions: sunny / partly cloudy

Tidal stage (CIRCLE ONE) (Slack) Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1) = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 0-1 ft Wind (speed & direction): S 3knots

AIR TEMP: 86.7 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface N/A °C/°F Column (mid-depth) 66 °C/(°F) Bottom N/A °C/°F

SCREEN TYPE

100%	Inflow screening:	None	25%	50%	75%	(100%)
None	Overflow screening:	(None)	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 horseshoe crab / 1 Blue Crab

STARBOARD SCREEN CONTENTS: clean

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 1

Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: One turtle (Loggerhead) spotted on surface outside of Buoy 1 on the way to the dump

Number observers used/24hrs: 2 100 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Patricia Kysmierski Observer firm REMSA, INC.

Observer signature Patricia Kysmierski

Karen Underkoffler

Karen Underkoffler

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C0008 Maintenance ___ /New Work X PROJECT start date 11-14-05

PROJECT NAME: Brunswick Channel Entrance DREDGE NAME: Eagle 1

DREDGE FIRM: BEAN

LOAD #: 07 LOAD start date: 11-15-05 Times (24hrs): Start 1457 End 1613

Condition of screening : Port Good Starboard Good Overflow N/A

Number of dragheads in use: 2 Type of dragheads used: IHC standard Size of dragheads: 9ft wide

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: sand / mud / clay

Weather conditions: Sunny / hazy

Tidal stage (CIRCLE ONE): Slack Rising (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1) = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 0-1 ft Wind (speed & direction): ___

AIR TEMP: 77.4 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface N/A °C/°F Column (mid-depth) 66 °C/(F) Bottom N/A °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
X	Overflow screening:	(None)	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 2 horseshoe crabs

STARBOARD SCREEN CONTENTS: clean

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 2

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Karen Underkoffler Observer firm RCMSA

Observer signature Karen Underkoffler

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-0008 Maintenance ___ /New Work X PROJECT start date 11-14-05

PROJECT NAME: Brunswick Channel Entrance DREDGE NAME: EAGLE 1

DREDGE FIRM: BEAN

LOAD #: 08 LOAD start date: 11-15-05 Times (24hrs): Start 1930 End 2302

Condition of screening : Port good Starboard good Overflow N/A

Number of dragheads in use: 2 Type of dragheads used: 14C Standard Size of dragheads: 9ft wide

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud / clay / sand

Weather conditions: Sunny — into night

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): S 7knots

AIR TEMP: 68° °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface N/A °C/°F Column (mid-depth) 65° °C/(°F) Bottom N/A °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
X	Overflow screening:	(None)	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shells

STARBOARD SCREEN CONTENTS: 1 shell 1 horseshoe crab

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 1

Blue crab 9

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: stopped dredging to let a car carrier take the channel 1830 - 1930 resumed dredge operations at 1930

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Karen Underkoffler Observer firm REMSA INC.

Observer signature Karen Underkoffler

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C0008 Maintenance ___ /New Work X PROJECT start date 11-14-05

PROJECT NAME: Brunswick Channel Entrance DREDGE NAME: EAGLE 1

DREDGE FIRM: ~~ROMSA~~ BEAN

LOAD #: 09 LOAD start date: 11-16-05 Times (24hrs): Start 00:53 End 03:02

Condition of screening : Port good Starboard good Overflow N/A

Number of dragheads in use: 2 Type of dragheads used: Tile Standard Size of dragheads: 9ft wide

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: sand / mud / clay

Weather conditions: Night / calm + overcast with partial clearing in the high ceiling

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: .5 ft Wind (speed & direction): SW @ 5 kts

AIR TEMP: 70.7 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ___ °C / °F Column (mid-depth) 67.5 °C / (F) Bottom ___ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shells of knobbed whelk

draghead: northern quahog overflow screen: 1 Callinectes sapidus

STARBOARD SCREEN CONTENTS: shells of knobbed whelk, oyster

draghead 1 Callinectes sapidus overflow screen: 1 Callinectes sapidus, drift wood

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab 3

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Patricia Kusmierski Observer firm ROMSA INC.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C0008 Maintenance ___ /New Work ✓ PROJECT start date 11/14/05

PROJECT NAME: Brunswick Channel Entrance Deepening DREDGE NAME: Eagle One

DREDGE FIRM: BEAN

LOAD #: 10 LOAD start date: 11/16/05 Times (24hrs): Start 04:59 End 07:48

Condition of screening : Port Good Starboard Good Overflow None

Number of dragheads in use: 2 Type of dragheads used: T/HC Standard Size of dragheads: 9 ft wide

Draghead deflector? YES ✓ NO ___ Condition of deflector: Good

Type of material dredged: sand mixture with numerous small mollusc shell fragments, mud and clay aggregates

Weather conditions: calm and partly clear

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1) = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: .25 ft Wind (speed & direction): light airs 1-3 kts (SW)

AIR TEMP: 70.3 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ___ °C/°F Column (mid-depth) 67.5 °C/(°F) Bottom ___ °C/°F

SCREEN TYPE

100%	Inflow screening:	None	25%	50%	75%	(100%)
None	Overflow screening:	(None)	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Limulus polyphemus, knobbed whelk shell, clay

draghead: crab trap

STARBOARD SCREEN CONTENTS: knobbed whelk shell, northern quahog shell, cognina shell, clay, driftwood

draghead: clay

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 1

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 2 100% Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Patricia Kusmierski Observer firm REMSA, INC.

Observer signature Patricia Kusmierski

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C0008 Maintenance ___ /New Work ✓ PROJECT start date 11/14/05

PROJECT NAME: Brunswick Channel Entrance Deepening DREDGE NAME: Eagle One

DREDGE FIRM: BEAN

LOAD #: 11 LOAD start date: 11/16/05 Times (24hrs): Start 09:39 End 1329

Condition of screening : Port Good Starboard Good Overflow None

Number of dragheads in use: 2 Type of dragheads used: FHC Standard Size of dragheads: 9 ft wide

Draghead deflector? YES ✓ NO ___ Condition of deflector: Good

Type of material dredged: mud & sand

Weather conditions: cooler / sunny

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	(3) = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): E @ 7-10 kts

AIR TEMP: 73.6 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ___ °C / °F Column (mid-depth) 67.5 °C (°F) Bottom ___ °C / °F

SCREEN TYPE

100%	Inflow screening:	None	25%	50%	75%	(100%)
None	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shells & 1 horseshoe crab

STARBOARD SCREEN CONTENTS: clean

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 1

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 100% Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Patricia Kusmierski Observer firm REMSA

Observer signature Patricia Kusmierski

Karen Underkoffler

Karen Underkoffler

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah

CONTRACT #: DACW21-02-C-0008 Maintenance ___ /New Work X PROJECT start date 11-14-05

PROJECT NAME: Brunswick Channel Entrance deepening DREDGE NAME: EAGLE 7

DREDGE FIRM: RBMSA

LOAD #: 12 LOAD start date: 11-16-05 Times (24hrs): Start 1538 End 1700

Condition of screening : Port good Starboard good Overflow N/A

Number of dragheads in use: 2 Type of dragheads used: IHC standard Size of dragheads: 9 ft wide

Draghead deflector? YES X NO ___ Condition of deflector: ___

Type of material dredged: mud, clay, sand

Weather conditions: breezy, sunny, sunset

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	(3 = 7-10 knot/ 2 ft)	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): 7 east knots

AIR TEMP: 74.5 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface N/A °C/°F Column (mid-depth) 65° °C/(°F) Bottom N/A °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
X Overflow screening:	(None)	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: Ø

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Karen Underkoffler Observer firm RBMSA Inc

Observer signature Karen Underkoffler