ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFarland

DREDGE FIRM: USACE

LOAD #: 1 **LOAD start date:** 21 MAR 08 **Times (24hrs): Start** 0940 **End** 1038

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

Number of dragheads in use: 2 **Type of dragheads used:** California **Size of dragheads:** ____

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine Sand & Silt Minor Amounts of Wood Debris

Weather conditions: Sunny, 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: 1-2 **ft** **Wind (speed & direction):** NNW 8 Kts

AIR TEMP: 58 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** n/a °C/°F **Bottom** n/a °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	(100%)
____ **Overflow screening:**	(None)	25%	50%	75%	100%
____ **Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 ~~cownose Ray~~ clearnose skate (2), Wood Debris, Metal, Plastic, Whelks, Razor Clams

STARBOARD SCREEN CONTENTS: 1 ~~cownose Ray~~ clearnose skate (2), 1 greysole Flounder, Debris as Above

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** ✓

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

Comments: Paint Test - Passed (USACE Wilm. Dist. Reps on Board)
T. truncatus in channel approx 15-20 Animals

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

Observer's name: B. Davis / Z. Sheller **Observer firm** Remsa, Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 Mar. 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFarland

DREDGE FIRM: USACE

LOAD #: 2 **LOAD start date:** 21 Mar 08 **Times (24hrs): Start** 1323 **End** 1510

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

Number of dragheads in use: 2 **Type of dragheads used:** CALIFORNIA **Size of dragheads:** _____

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand & silt

Weather conditions: mostly 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: 1-2 **ft** **Wind (speed & direction):** N @ 3kt.

AIR TEMP: 59 °~~C~~/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 61 °~~C~~/°F **Column (mid-depth)** ____ °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: 3 Horseshoe Crabs, Minor metal/plastic debris

STARBOARD SCREEN CONTENTS: 1 Horseshoe crab, Woody Debris, minor plastic

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species) ∅

Horseshoe crab 4

Blue crab ∅

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** ✓

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

Comments: (east leg)
T. truncatus in channel - approx. 15-20 animals (incl. mother & calf)
(near marker 15)

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

Observer's name: B. Davis / Z. Sheller **Observer firm** REMSA, Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GDSWAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFarland

DREDGE FIRM: USACE

LOAD #: 3 **LOAD start date:** 21 MAR 08 **Times (24hrs): Start** 1751 **End** 1758

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: Fine Sand & Silt

Weather conditions: 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: 1-2 **ft. Wind (speed & direction):** N @ 6-10 kt.

AIR TEMP: 62 °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 60 °C (°F) **Column (mid-depth)** unavailable ~~°C/°F~~ **Bottom** unavail. ~~°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: 1 Horseshoe Crab, Minor metal, plastic Debris

STARBOARD SCREEN CONTENTS: 1 piece of wood

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: (west leg)
T. truncatus in channel approx 6 animals

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

Observer's name: Z. Sheller **Observer firm** REMSA, Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 4 **LOAD start date:** 21 MAR 08 **Times (24hrs): Start** 2025 **End** 2042

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** _____

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

Type of material dredged: FINE SAND & SILT

Weather conditions: CLEAR, FULL MOON

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: 2-4 **ft Wind (speed & direction):** 15-20 KTS SSW

AIR TEMP: 58 **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62 **°C / °F Column (mid-depth)** ____ **°C / °F Bottom** ____ **°C / °F**

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	(**100%**)
____ **Overflow screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: 1 piece of metal debris

STARBOARD SCREEN CONTENTS: 2 Horseshoe CRABS, 1 piece of wood debris

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: WEST LEG

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

Observer's name: Z. SHELLER **Observer firm** REMSA, INC.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 5 **LOAD start date:** 21 MAR 08 **Times (24hrs): Start** 2310 **End** 0129

Condition of screening : Port GOOD **Starboard** GOOD **Overflow** —

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** ____

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

Type of material dredged: fine sand & silt

Weather conditions: 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: 3-4 **ft. Wind (speed & direction):** SW 12 KTS

AIR TEMP: 59 **°C/(°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 **°C /°F Column (mid-depth)** — **°C /°F Bottom** — **°C /°F**

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	**(100%)**
____ **Overflow screening:**	**(None)**	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	**(None)**	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: wood debris, small amounts of misc. trash

STARBOARD SCREEN CONTENTS: fishing line, scrap co-ax cable, / ~~stingray~~ clearnose 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: EAST LEG

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

Observer's name: B. DAVIS **Observer firm** REMSA, INC.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 Mar. 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFarland

DREDGE FIRM: USACE

LOAD #: 6 **LOAD start date:** 22 Mar. 08 **Times (24hrs): Start** 0430 **End** 0454

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** ____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: Fine sand & silt

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: 1-2 **ft. Wind (speed & direction):** SW @ 6-10 kt

AIR TEMP: 58 °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C (°F) **Column (mid-depth)** ____ °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: 1 lightning whelk, rope scraps, fiberglass panels

STARBOARD SCREEN CONTENTS: 1 horseshoe crab, minor wood debris, rope

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** 0
- **Shark (any species)** 0
- **Horseshoe crab** 1
- **Blue crab** 0

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

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

Comments: No Sightings (DUMP 0620)

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

Observer's name: B. DAVIS **Observer firm** REMSA

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 7 **LOAD start date:** 22 Mar 08 **Times (24hrs): Start** 0737 **End** 0745

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: Fine sand & silt

Weather conditions: 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: 2-3 **ft. Wind (speed & direction):** SW @ 6-12 Kt

AIR TEMP: 58 °~~C~~/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 57 °~~C~~/°F **Column (mid-depth)** ____ °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: clear

STARBOARD SCREEN CONTENTS: clear

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: (WEST LEG)
3 T. truncatus @ Marker 21 off Ft. Macon, USCG, @ 0733 hrs. (on approach)

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

Observer's name: B. DAVIS **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 8 **LOAD start date:** 22 MAR 08 **Times (24hrs): Start** 1022 **End** 1343

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 2-3 **ft. Wind (speed & direction):** SW @ 5-10 Kt.

AIR TEMP: 63 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

* **WATER TEMP: Surface** 58 °C/(°F) **Column (mid-depth)** (unavailable) °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: 8 horseshoe crabs, partial tire, fishing line, rope, minor wood debris minor fiberglass debris

STARBOARD SCREEN CONTENTS: 13 horseshoe crabs, minor plastic debris, minor wood debris fishing line, rope, MANY fiberglass pieces

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø
Shark (any species) Ø
Horseshoe crab 21
Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** ✓

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

EAST LEG **Comments:** 0950 - on inbound run - 4 T. truncatus off Ft. Macon USCG Station
(WEST LEG) LAUNCH HAD WATER TEMP OF 57.7°F IN INNER HARBOR AT 1105 HRS. *
1235 4 T. truncatus off dock in EAST leg

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

Observer's name: B. DAVIS / Z. Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 9 **LOAD start date:** 22 MAR 08 **Times (24hrs): Start** 1639 **End** 1653

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

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: 3-5 **ft. Wind (speed & direction):** WSW @ 23 Kt.

AIR TEMP: 58 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/°F **Column (mid-depth)** (unavailable) °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓	**Inflow screening:**	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: PART OF WOOL BLANKET, MINOR FISHING LINE/ROPE DEBRIS

STARBOARD SCREEN CONTENTS: 8 Horseshoe CRABS, 1 CLEARNOSE SKATE, MINOR Fiberglass Debris

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø
Shark (any species) Ø
Horseshoe crab 8
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: 1603 T. truncatus (2) @ channel marker #17 1709 T. truncatus (4) @ channel marker #23 WEST LEG

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

Observer's name: Z. SHELLER **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 10 **LOAD start date:** 22 MAR 08 **Times (24hrs): Start** 1931 **End** 1939

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 6-10 **ft. Wind (speed & direction):** SW @ 22 Kt.

AIR TEMP: 64 **°C/(°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 57 **°C/(°F) Column (mid-depth)** ____ **°C/°F Bottom** ____ **°C/°F**

SCREEN TYPE

✓ **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 scraps METAL, 1 partial plastic bag, 1 piece of WOOD

STARBOARD SCREEN CONTENTS: 4 Horseshoe CRABS

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: 1914 T. truncatus (3) @ Buoy 22 1920 T.t. (3) IN WEST LEG of Inner Harbor WEST LEG

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

Observer's name: J. SHELLER **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** m/v McFARLAND

DREDGE FIRM: USACE

LOAD #: 11 **LOAD start date:** 22 MAR 08 **Times (24hrs): Start** 2208 **End** 2256

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine sand & silt (enter dump 0021)

Weather conditions: Clear, 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: 4 **ft. Wind (speed & direction):** SSW @ 14 Kt.

AIR TEMP: 62 **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 **°C/°F Column (mid-depth)** (unavailable) **°C/°F Bottom** ____ **°C/°F**

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	**100%**
____ **Overflow screening:**	**None**	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	**None**	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: 1 clearnose skate, fishing line, misc. trash

STARBOARD SCREEN CONTENTS: 1 clearnose skate, 1 H.S. crab, Broken Fiberglass panels

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 1
Blue crab 0

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

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

Comments: No Sightings * 1 draghead down @ 2245 so only pumping with 1 WEST LEG & EAST LEG

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

Observer's name: Z. SHELLER / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** ____ **PROJECT start date** 21MAR08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 12 **LOAD start date:** 23MAR08 **Times (24hrs): Start** 0140 **End** 0330

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** ____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand & silt with small amount of debris

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: 1-2 **ft. Wind (speed & direction):** NE @ 7-10 kt.

AIR TEMP: 49 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 56 °C/(°F) **Column (mid-depth)** (unavailable) °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: 1 clearnose skate, rope & net scraps, wood

STARBOARD SCREEN CONTENTS: 2 horseshoe crab, wood debris, plastic

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 2
Blue crab 0

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

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

Comments: (East Leg) (dump 0457)

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

Observer's name: B. Davis / Z Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 13 **LOAD start date:** 23 MAR 08 **Times (24hrs): Start** 0624 **End** 0634

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: fine sand & silt

Weather conditions: mostly clear - winds increasing, air temp dropping

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: 2-4 **ft. Wind (speed & direction):** NE @ 12-18 kt.

AIR TEMP: 48 °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 56 °C (°F) **Column (mid-depth)** (unavailable) °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: 2 horseshoe crab, fishing line, rope scrap

STARBOARD SCREEN CONTENTS: 1 horseshoe crab, fabric, plastic strips

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 3
Blue crab 0

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

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

Comments: (WEST LEG)

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

Observer's name: B. Davis / Z Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 14 **LOAD start date:** 23 MAR 08 **Times (24hrs): Start** 0910 **End** 1150

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND, SILT & MUD

Weather conditions: 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: 2-3 **ft. Wind (speed & direction):** NW @ 10-15 kt.

AIR TEMP: 48 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 57 °C/(°F) **Column (mid-depth)** ____ °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: 12 Horseshoe Crabs, 1 clearnose skate, 8 unidentified skates/RAY 1 common spider crab, 1 unidentified shell

STARBOARD SCREEN CONTENTS: 5 Horseshoe Crabs, 2 clearnose skate, 1 unidentified skate/RAY Fiberglass Debris, 1 chiseled whelk, 1 sole type shoe

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø
Shark (any species) Ø
Horseshoe crab 17
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: (EAST LEG) T. truncatus (2) inbound in Ch. East leg - 0931 hrs. T. truncatus (2) channel marker #7 1220

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

Observer's name: B. Davis / Z Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 15 **LOAD start date:** 23 MAR 08 **Times (24hrs): Start** 1433 **End** 1650

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** _____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND & SILT

Weather conditions: Sunny, 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: 2 **ft. Wind (speed & direction):** N @ 10-12 kt.

AIR TEMP: 63 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/°F **Column (mid-depth)** (unavailable) °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: 6 Horseshoe CRABS, 1 SMOOTH Dogfish Shark, Minor fiberglass debris metal debris, MINOR WOOD DEBRIS

STARBOARD SCREEN CONTENTS: 5 Horseshoe CRABS, 1 KNOBBED WHELK, Fiberglass Debris, Fishing LINE, PARTIAL TIRE

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** 1
- **Horseshoe crab** 11
- **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: EAST LEG

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

Observer's name: B. Davis / Z Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** ____ **PROJECT start date** 21MAR08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 16 **LOAD start date:** 23 MAR 08 **Times (24hrs): Start** 1924 **End** 2150

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** ____

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

Weather conditions: Mostly 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: 4 **ft. Wind (speed & direction):** NE @ 14 kt.

AIR TEMP: 52 **°C (°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 59 **°C (°F) Column (mid-depth)** ____ **°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: 6 Horseshoe Crabs, 2 clearnose skate, 2 unidentified skate/RAY partial tire, minor wood/fiberglass debris

STARBOARD SCREEN CONTENTS: 5 Horseshoe Crabs, 1 clearnose skate, 1 unidentified skate/RAY MINOR Fiberglass debris

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø
Shark (any species) Ø
Horseshoe crab 11
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: 1900 T. truncatus (4) @ channel #22 [multiple sightings] [EAST LEG]

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

Observer's name: B. Davis / Z Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 17 **LOAD start date:** 24MAR 08 **Times (24hrs): Start** 0022 **End** 0313

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

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: 1-2 **ft. Wind (speed & direction):** NE @ 6-10 kt.

AIR TEMP: 47 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 56 °C/(°F) **Column (mid-depth)** (unavailable) °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: 2 HS crab, 1 clearnose skate, wood debris

STARBOARD SCREEN CONTENTS: 6 HS crab, wire mesh, fiberglass panels

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** 0
- **Shark (any species)** 0
- **Horseshoe crab** 8
- **Blue crab** 0

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

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

Comments: (EAST LEG)

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

Observer's name: B. Davis / Z Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFARLAND

DREDGE FIRM: USACE

LOAD #: 18 **LOAD start date:** 24 MAR 08 **Times (24hrs): Start** 0613 **End** 0827

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: Fine sand, silt & debris

Weather conditions: mostly clear skys to mostly cloudy after 0700

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):** NE @ 6-12 kt.

AIR TEMP: 50 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/(°F) **Column (mid-depth)** (unavailable) °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: 3 HS crab, rubber, fiberglass B.P. panels

STARBOARD SCREEN CONTENTS: wire, wood, fiberglass panels

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 3
Blue crab 0

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

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

Comments: (EAST LEG) @ 0859 T. truncatus (2) southbound, crossing Ch. @ Green 9 (DUMP 0937)

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

Observer's name: B. Davis / Z. Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 19 **LOAD start date:** 24 MAR 08 **Times (24hrs): Start** 1111 **End** 1356

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 1-3 **ft. Wind (speed & direction):** N @ 12-17 kt.

AIR TEMP: 53 °~~C~~ (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °~~C~~ (°F) **Column (mid-depth)** unk. °C / °F (unavailable) **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: 6 Horseshoe CRABS, METAL CABLE, MINOR WOOD Debris MINOR METAL debris

STARBOARD SCREEN CONTENTS: 5 Horseshoe CRABS, 1 ATLANTIC Stingray 1 Lightning whelk, partial tire, fiberglass, fishing line, minor wood debris PARTIAL plastic BAG

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 11

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: (EAST LEG)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 20 **LOAD start date:** 24 MAR 08 **Times (24hrs): Start** 1658 **End** 1920

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND & SILT

Weather conditions: MOSTLY CLOUDY, 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: 4-6 **ft. Wind (speed & direction):** NNE @ 18 kt.

AIR TEMP: 62 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: 3 ATLANTIC STINGRAYS, 2 Horseshoe Crabs, 1 piece of wood, 2 pieces fiberglass, Bivalve shell

STARBOARD SCREEN CONTENTS: 2 clearnose skates, 6 Horseshoe Crabs, ROPE FISHING LINE, FIBERGLASS

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 8

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: (EAST LEG) 1634 T. truncatus (2) @ channel marker #16 1817 Tt (6) [multiple sightings] East leg 1845 Tt (3) in west leg [multiple] —— Foraging around East & west meeting point

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 21 **LOAD start date:** 24 MAR 08 **Times (24hrs): Start** 2159 **End** 0051

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12'x8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand & silt

Weather conditions: Windy, Cool

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: 4 **ft. Wind (speed & direction):** N @ 15 kt.

AIR TEMP: 50 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/°F **Column (mid-depth)** unk. °C/°F (unavailable) **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: 1 Atlantic Stingray 2 HS crab wood and rope scraps, broken fiberglass panels, plastic strips, wire

STARBOARD SCREEN CONTENTS: 1 Cleanose skate, 4 H.S. crab, wood and wire

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 6
Blue crab 0

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

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

Comments: (EAST LEG) (DUMP 0205)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 22 **LOAD start date:** 25 MAR 08 **Times (24hrs): Start** 0346 **End** 0631

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine sand & silt

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: 1-2 **ft. Wind (speed & direction):** N @ 5-10 kt.

AIR TEMP: 42 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: 1 clearnose skate, 2 H.S. crab, wood debris, fishing line, plastic, metal, rubber, small amount marine veg.

STARBOARD SCREEN CONTENTS: 1 Atlantic Stingray, 3.5 H.S. crabs, wire mesh, plastic, fishing line, wood, scrap metal

Estimate number entrained on this load for the following:

Sturgeon (any species)	0
Shark (any species)	0
Horseshoe crab	5
Blue crab	0

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

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

Comments: (EAST LEG) No Sightings (DUMP 0746)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 23 **LOAD start date:** 25 MAR 08 **Times (24hrs): Start** 0923 **End** 1144

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 2-3 **ft. Wind (speed & direction):** NNW @ 12-15 kt.

AIR TEMP: 46 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: 8 Horseshoe Crabs, 3 ATLANTIC Stingrays, 1 clearnose skate 1 smooth dogfish, couple pieces of REBAR, MINOR WOOD DEBRIS MINOR RUBBER & ROPE DEBRIS

STARBOARD SCREEN CONTENTS: 4 Horseshoe Crabs, 1 smooth dogfish, 2 ATLANTIC Stingrays, RUBBER, MINOR WOOD debris, MINOR metal debris

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** 2
- **Horseshoe crab** 12
- **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: (EAST LEG) 1132 (4) T.t. @ 32 dog in East leg 1205 (2) T.t. @ green #17 1211 (2) Tt @ red #12 1218 (5) Tt @ Red #8 (DUMP 1300)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 24 **LOAD start date:** 25 MAR 08 **Times (24hrs): Start** 1428 **End** ~~1730~~ 1745

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine Sand & Silt

Weather conditions: Sunny & 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: 1/2-1 **ft. Wind (speed & direction):** N @ 4 kt.

AIR TEMP: 61 °~~C~~/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °~~C~~/°F **Column (mid-depth)** unk. °C/°F **Bottom** (unavailable) °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: 1 clearnose skate, plastic bucket, minor metal & wood debris, 1/2 a bivalve shell

STARBOARD SCREEN CONTENTS: 1 Atlantic Stingray, 3 Horseshoe Crabs, Minor wood & Fiberglass Debris

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 3
- **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: (EAST LEG) 1347 (4) T.t. off Red #8 1352 (4) T.t. around Red #10 1357 (6) T.t. [multiple] around Red #12 1801 T.t. (4) @ Markers #7 & 8 [multiple] (DUMP 1845)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 25 **LOAD start date:** 25 MAR 08 **Times (24hrs): Start** 2006 **End** 2206

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand & silt

Weather conditions: 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: .5-1 ft. **Wind (speed & direction):** SW @ 4 Kt.

AIR TEMP: 52 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 59 °C/(°F) **Column (mid-depth)** unk. °C/°F **Bottom** (unavailable) °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: 2 H.S. Crab, 1 shredded small shark anterior portion

STARBOARD SCREEN CONTENTS: wood debris, 1 partial H.S crab carapace only

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** 0
- **Shark (any species)** 1 partial (unid.)
- **Horseshoe crab** 3
- **Blue crab** 0

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

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

Comments: (EAST LEG) 1944 T.t. (4) @ make #19 1950 T.t. (5) headed out channel (DUMP 2324) [DUMP 2315]

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 26 **LOAD start date:** 26 MAR 08 **Times (24hrs): Start** 0027 **End** 0401

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine sand & silt

Weather conditions: 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: 1-2 **ft. Wind (speed & direction):** SW @ 6-12 kt.

AIR TEMP: 53 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/(°F) **Column (mid-depth)** unk. °C / °F (unavailable) **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: 1 clearnose skate, 2 H.S. crabs
wood and wire debris, fishing line

STARBOARD SCREEN CONTENTS: 1 Atlantic ray, 3 H.S. crab
wood, plastic, metal

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 5
Blue crab 0

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

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

Comments: (EAST LEG) (DUMP 0512)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21MAR08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 27 **LOAD start date:** 26MAR08 **Times (24hrs): Start** 0643 **End** 0831

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

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

Type of material dredged: fine sand & silt

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: 1-2 ~~54~~ B.D. **ft. Wind (speed & direction):** SW @ 6-12 kt.

AIR TEMP: 54 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: 5 horseshoe crabs, metal debris, wood

STARBOARD SCREEN CONTENTS: 1 horseshoe crab, wood debris

Estimate number entrained on this load for the following:

Sturgeon (any species)	0
Shark (any species)	0
Horseshoe crab	6
Blue crab	0

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

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

Comments: (EAST LEG) 0750 thru end of load – T. truncatus foraging (2) in inner harbor east & center (DUMP @ 0944)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 28 **LOAD start date:** 26 Mar 08 **Times (24hrs): Start** 1100 **End** 1211

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine Sand & Silt

Weather conditions: clear to partly cloudy (high cloud)

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):** N @ 15-20 Kt. gusts to 25 Kt. occasionally

AIR TEMP: 62 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 59 °C/(°F) **Column (mid-depth)** unk. °C / °F (unavailable) **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: 4 Horseshoe Crabs, minor monofilament, minor metal debris

STARBOARD SCREEN CONTENTS: Metal & wood minor debris, monofilament, 1 piece rubber, 1 piece of fiberglass

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: (WEST LEG) 1244 T.t. (4) northbound in channel
EAST LEG (DUMP @ 1325)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-6-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** M/v McFarland, USACE

DREDGE FIRM: USACE

LOAD #: 29 **LOAD start date:** 26 MAR 08 **Times (24hrs): Start** 1447 **End** 1728

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND & SILT

Weather conditions: SUNNY & 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: 4-6 **ft. Wind (speed & direction):** SW @ 20 kt

AIR TEMP: 61 °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C (°F) **Column (mid-depth)** ____ °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: 3 Horseshoe Crabs, 1 Atlantic Stingray, Minor Metal Debris, Minor Fiberglass Debris, Wood Debris, 2 Bivalve shells

STARBOARD SCREEN CONTENTS: 1 Horseshoe Crab, 1 Lightning Whelk Minor Metal Debris, Minor Fiberglass Debris, Wood Debris

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: (East Leg) 1615 Tt. (2) in East Leg 1738 Tt. (1) in East Leg (Dump 1845)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** REMSA, Inc

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 30 **LOAD start date:** 26 MAR 08 **Times (24hrs): Start** 2007 **End** 2156

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 6 **ft. Wind (speed & direction):** SW @ 20 Kt.

AIR TEMP: 60 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** unk. °C / °F (unavailable) **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: 4 Horseshoe Crabs 2 clearnose skates, 3 Atlantic Stingrays 1 Knobbed Whelk, Various pieces of Bivalve shell, Fiberglass pieces, 1 piece Rubber

STARBOARD SCREEN CONTENTS: MINOR MONOFILAMENT / ROPE DEBRIS

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: (EAST LEG) No sightings (DUMP 2300)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 31 **LOAD start date:** 27 Mar 08 **Times (24hrs): Start** 0021 **End** 0351

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good on both *

Type of material dredged: Fine sand & silt

Weather conditions: 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: 2-3 **ft. Wind (speed & direction):** SW @ 5-10 kt.

AIR TEMP: 59 °~~C~~/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °~~C~~/(°F) **Column (mid-depth)** unk. °C / °F (unavailable) **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: 5 H.S. crabs, 2 Atlantic Rays, metal & wood broken bivalve shells

STARBOARD SCREEN CONTENTS: 3 H.S. crabs, 1 clearnose skate, 1 channel whelk, bivalves, metal, wood, plastic

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 8

Blue crab 0

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

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

Comments: (EAST LEG) * Dragheads brought aboard for inspection on all loads this watch. (DUMP @ 0504)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 32 **LOAD start date:** 27 Mar 08 **Times (24hrs): Start** 0634 **End** 0823

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD ON BOTH

Type of material dredged: FINE SILT AND SAND WITH DEBRIS

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: 1-2 **ft. Wind (speed & direction):** SW @ 6-10 kt.

AIR TEMP: 59 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: 4 H.S. crabs fishing line, plastic strips, wire, wood debris, rubber 'chunks'

STARBOARD SCREEN CONTENTS: 2 Atlantic Stingrays, bivalve shells - broken, large wood posts metal, plastic

* Freed crabs from fishing line → 2 Common Spider Crabs - released alive *

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** 0
- **Shark (any species)** 0
- **Horseshoe crab** 4
- **Blue crab** 0

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

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

Comments: (EAST LEG) 0645 - T. truncatus (3 to 5) foraging off fuel dock area. Then T. truncatus present thru entire dig (DUMP @ 1014)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 33 **LOAD start date:** 27 MAR 08 **Times (24hrs): Start** 1140 **End** 1352

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD ON BOTH

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 1-2 **ft. Wind (speed & direction):** SW @ 3-12 Kt.

AIR TEMP: 63 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 59 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: MINOR FIBERGLASS / WOOD / METAL DEBRIS, 1 LIGHTNING WHELK, BIVALVE SHELLS

STARBOARD SCREEN CONTENTS: 1 Horseshoe CRAB, 1 piece of METAL CABLE

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: (EAST LEG) 2 T. truncatus bow riding off fuel dock 1140 (DUMP @ 1505)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 34 **LOAD start date:** 27 MAR 08 **Times (24hrs): Start** 1623 **End** 1900

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND SILT

Weather conditions: CLEAR & 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: 4-6 **ft. Wind (speed & direction):** SSW @ 18-20 Kt.

AIR TEMP: 66 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 59 °C/(°F) **Column (mid-depth)** unk. °C / °F (unavailable) **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: 2 Horseshoe CRABS, PARTIAL CHAIN, METAL CABLE, MINOR WOOD/PLASTIC FIBERGLASS DEBRIS, BIVALVE SHELLS

STARBOARD SCREEN CONTENTS: 2 Horseshoe CRABS, MINOR WOOD/FIBERGLASS/PLASTIC Debris

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: (EAST LEG) T.t. (12) around green #21 [multiple] 1912 (4) Tt NEAR BRANDT ISLAND (DUMP 2015) 1920 (3) Tt. near green #19

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

* SCREENING IN INFLOW PIPES PARTIAL OR MISSING COMPLETELY

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 35 **LOAD start date:** 27 MAR 08 **Times (24hrs): Start** 2144 **End** 2153

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 4-6 **ft. Wind (speed & direction):** NE @ 20 Kt.

AIR TEMP: 62 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 59 °C/°F **Column (mid-depth)** unk. °C / °F (unavailable) **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: METAL CABLE

STARBOARD SCREEN CONTENTS: CLEAR

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** ✓

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

Comments: (WEST LEG) Dredge Capt. & Corps biologist notified of damage to inflow pipe screening. Both agree that repairs will be made as soon as safe at 1ST light. (DUMP 2309)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

* See previous LOAD sheet

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21MAR08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 36 **LOAD start date:** 28MAR08 **Times (24hrs): Start** 0033 **End** 0041

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

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

Type of material dredged: Fine sand & silt

Weather conditions: 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: 2-3 **ft. Wind (speed & direction):** SW @ 6-12 kt.

AIR TEMP: 61 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: wood & metal debris, plastic, rubber

STARBOARD SCREEN CONTENTS: wood & metal, plastic, monofilament

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: (WEST LEG) (DUMP @ 0156)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 37 **LOAD start date:** 28 Mar 08 **Times (24hrs): Start** 0312 **End** 0319

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD ON BOTH

Type of material dredged: Fine sand & silt w/ minor debris

Weather conditions: 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: 2-3 **ft. Wind (speed & direction):** SW @ 7-10 kt.

AIR TEMP: 62 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/(°F) **Column (mid-depth)** unk. °C/°F (unavailable) **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: minor wood debris

STARBOARD SCREEN CONTENTS: clear

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

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: (WEST LEG) (DUMP @ 0934)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** X **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** Mc Farland

DREDGE FIRM: USACE

LOAD #: 38 **LOAD start date:** 28 MAR 08 **Times (24hrs): Start** 0549 **End** 0557

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

Number of dragheads in use: 2 **Type of dragheads used:** CA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good BOTH

Type of material dredged: Fine sand & silt with minor debris

Weather conditions: 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: 1-2 **ft. Wind (speed & direction):** WSW @ 6-12 Kt.

AIR TEMP: 62 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/°F **Column (mid-depth)** unk. °C / °F (unavailable) **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: clear except very minor wood debris

STARBOARD SCREEN CONTENTS: clear " " " "

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: (WEST LEG) Repairs to distribution pipe screens began after observer checked screens and exited traps. (DUMP @ 0713)

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

Observer's name: Z. Sheller / B. Davis **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON NC

CONTRACT #: GDSWAP-08-G-0001 **Maintenance** X **/New Work** ____ **PROJECT start date** 21 Mar 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** McFarland

DREDGE FIRM: USACE

LOAD #: 39 **LOAD start date:** 28 Mar 08 **Times (24hrs): Start** 1218 **End** 1228

Condition of screening : Port GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD ON BOTH

Type of material dredged: FINE SAND & SILT

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: 4-6 **ft. Wind (speed & direction):** SW @ 20 Kt.

AIR TEMP: 66 °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C (°F) **Column (mid-depth)** (unavailable) °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: CLEAR

STARBOARD SCREEN CONTENTS: 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** Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** ✓

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

Comments: (WEST LEG) 1055-Repairs to distribution chute screens complete. 1154 TE(2) move green 21 1307 TE(1) channel markers #7 & 8 (DUMP @ 1340)

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

Observer's name: B. Davis / Z. Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

Number of dragheads in use: 2 Type of draghead used: CALIFORNIA Size of draghead: 12 x 5

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

Type of material dredged: FINE SAND & SILT

Weather conditions: CLEAR & 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: 4-6 ft. Wind (speed & direction): SW @ 20-22 Kt.

AIR TEMP: 66 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 59 °C/°F Column (mid-depth) ___ °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: CLEAR

STARBOARD SCREEN CONTENTS: N/A

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 ✓

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

Comments: (WEST LEG) (DUMP @ 1906)

*Used Port Draghead only

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

Observer's name: Brad Davis/Zach Sheller Observer firm R.E.M.S.A., Inc.

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT # GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 41 **LOAD start date:** 28 MAR 08 **Times (24hrs): Start** 1736 **End** 1750

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

Number of dragheads in use: 1 **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine Sand & Silt

Weather conditions: Clear & 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: 4-6 **ft. Wind (speed & direction):** SW @ 20-22 Kt.

AIR TEMP: 66 **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 54 **°C/°F Column (mid-depth)** ____ **°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: CLEAR

STARBOARD SCREEN CONTENTS: N/A

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** ✓

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

Comments: (WEST LEG) (DUMP @ 1906)

*Used Port Draghead only

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

Observer's name: Brad Davis/Zach Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT # GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 42 **LOAD start date:** 28 MAR 08 **Times (24hrs): Start** 2030 **End** 2041

Condition of screening : Port GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: * 1-2 **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12' x 8'

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

Type of material dredged: FINE SAND & SILT

Weather conditions: 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: 4-6 **ft. Wind (speed & direction):** SW @ 18-20 Kt.

AIR TEMP: 64 **°C (°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 59 **°C (°F) Column (mid-depth)** ___ **°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: Juvenille FLATFISH

STARBOARD SCREEN CONTENTS: 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** Ø

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

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

Comments: (WEST LEG)

* STARBOARD PUMP/DRAGHEAD ONLY then PORT @ end of line (DUMP @ 2154)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT # GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 43 **LOAD start date:** 28 MAR 08 **Times (24hrs): Start** 2315 **End** 2325

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

Number of dragheads in use: * 1-2 **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand & silt

Weather conditions: CLEAR

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

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: 4-6 **ft. Wind (speed & direction):** SW @ 16-18 Kt.

AIR TEMP: 63 **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 **°C/°F Column (mid-depth)** ____ **°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: clear

STARBOARD SCREEN CONTENTS: one metal disc, minor wood scraps

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: (WEST LEG)
* ONLY STARBOARD PUMP/DRAGHEAD IN USE for most of pump then port kicked on (DUMP @ 0040)

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

Observer's name: Brad Davis/Zach Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT # GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 44 **LOAD start date:** 29 MAR 08 **Times (24hrs): Start** 0158 **End** 0213

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

* **Number of dragheads in use:** 1 (STBD.) **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12 x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand / silt

Weather conditions: 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: 1-2 **ft. Wind (speed & direction):** SW @ 10-12 Kt. - gusts to 17 Kt. occasionally

AIR TEMP: 62 **°C (°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 **°C (°F) Column (mid-depth)** ____ **°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: minor wood debris, fabric

STARBOARD SCREEN CONTENTS: minor wood & plastic debris

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: (WEST LEG) * Starboard pump only, but both dragheads on bottom. (DUMP @ 0322)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT # GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 45 **LOAD start date:** 29 Mar 08 **Times (24hrs): Start** 0443 **End** 0458

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

Number of dragheads in use: ** 1 (Port) **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: FINE SAND / SILT

Weather conditions: MOSTLY CLEAR (CONDITIONS CHANGED AFTER DUMP: TEMP DROPPING, WINDS INCREASING)

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):** NE @ 10-15 Kt. occasional higher gusts

AIR TEMP: 60↓ °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 °C (°F) **Column (mid-depth)** ____ °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: 12 H.S. Crabs, wood debris, monofilament

STARBOARD SCREEN CONTENTS: 2 H.S. Crabs, metal rod, wire, plastic

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 14

Blue crab 0

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

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

Comments: (WEST LEG) * Seas higher on dump run. Wind increasing at dawn.
** Port pump only w/ both dragheads on bottom. (DUMP @ 0610)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT # GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 46 **LOAD start date:** 29 MAR 08 **Times (24hrs): Start** 0852 **End** 0905

Condition of screening : Port GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: Fine sand & silt

Weather conditions: partly to mostly cloudy, breezy & cooler

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):** NE @ 15-20 Kt. higher gusts occasionally

AIR TEMP: 53 °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 °C (°F) **Column (mid-depth)** ____ °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: bivalve shells (halfs & broken parts) sm. amt. wood debris

STARBOARD SCREEN CONTENTS: 1 13 INCH LOG, minor amount wood

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: B.D. ~~(EAST LEG)~~ RANGE C 0610 - 0741: Pause offshore between loads 45-46 due to weather (WIND) (Seas higher offshore) (dump now in a new near shore area → (DUMP @ 1009)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT # GDSNAP-08-G-0001 **Maintenance** X **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 47 **LOAD start date:** 29 MAR 08 **Times (24hrs): Start** 1307 **End** 1316

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

Number of dragheads in use: 2 **Type of dragheads used:** CALIFORNIA **Size of dragheads:** 12' x 8'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** GOOD

Type of material dredged: FINE SAND & SILT

Weather conditions: CLEAR WINDY

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: 4-10 **ft. Wind (speed & direction):** NE @ 20-25 Kt.

AIR TEMP: 55 **°C (°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 **°C (°F) Column (mid-depth)** ____ **°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: 1 piece of METAL

STARBOARD SCREEN CONTENTS: 1 piece of wood, couple broken bivalve shells

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** ✓

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

Comments: (WEST LEG) 1253 TL (8) @ jct EBT & West Leg (DUMP @ 1421)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** R.E.M.S.A., Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 48 **LOAD start date:** 29 MAR 08 **Times (24hrs): Start** 1539 **End** 1637

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CAL I **Size of dragheads:** 12' x 8'

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

Type of material dredged: FINE SAND & SILT

Weather conditions: OVERCAST WINDY

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: 3-6 **ft Wind (speed & direction):** NE @ 17-22 kt

AIR TEMP: 52 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** ____ **°C /°F Bottom** ____ **°C /°F**

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	**(100%)**
____ **Overflow screening:**	**(None)**	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	**(None)**	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: 1 plastic bag, MINOR BROKEN BIVALVES

STARBOARD SCREEN CONTENTS: MINOR BROKEN BIVALVES

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** ✓

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

Comments: [Range C ~~LEG~~] 1545 (8+) TT Foraging in East Leg (multiple sightings) (DUMP @ 1727)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** m/v McFARLAND

DREDGE FIRM: USACE

LOAD #: 49 **LOAD start date:** 29 MAR 08 **Times (24hrs): Start** 2004 **End** 2045

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: FINE SAND

Weather conditions: OVERCAST

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: 4 **ft** **Wind (speed & direction):** NNE @ 12-16 KT

AIR TEMP: 48 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/°F **Column (mid-depth)** — °C/°F **Bottom** — °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	100%
____ **Overflow screening:**	None	25%	50%	75%	100%
____ **Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: couple pieces of wood, broken bivalve shells, fishing sinker

STARBOARD SCREEN CONTENTS: 3 Horseshoe CRABS, 1 piece of WOOD

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 3
- **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: Range C ~~LEG~~] 1814 (1) TE off Shackelford Pt (DUMP @ 2144)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V MCFARLAND

DREDGE FIRM: USACE

LOAD #: 50 **LOAD start date:** 29 MAR 08 **Times (24hrs): Start** 2300 **End** 2308

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: FINE SAND / SILT

Weather conditions: 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: 4-6 **ft Wind (speed & direction):** NNE @ 20-25

AIR TEMP: 50 **°C/(°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 **°C/(°F) Column (mid-depth)** ____ **°C / °F Bottom** ____ **°C / °F**

SCREEN TYPE

✓	**Inflow screening:**	None	25%	50%	75%	(100%)
____	**Overflow screening:**	(None)	25%	50%	75%	100%
____	**Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 channel whelk, wood debris

STARBOARD SCREEN CONTENTS: wood debris, fishing line

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

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: [WEST LEG] (DUMP @ 0015)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** m/v McFarland

DREDGE FIRM: USACE

LOAD #: 51 **LOAD start date:** 30 MAR 08 **Times (24hrs): Start** 0131 **End** 0148

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

Number of dragheads in use: (STBD.) 1 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand & silt - extreme sulphur odor

Weather conditions: overcast, occasional light rain, fresh breeze

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 (IN WEST LEG) **Wind (speed & direction):** NE @ 15-25 kt. w/ gusts to 30 kt.

AIR TEMP: 48 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** ____ **°C /°F** **Bottom** ____ **°C /°F**

SCREEN TYPE

✓ **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: clear

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: [WEST LEG] *seas higher on dump run to Beaufort 5* (DUMP @ 0254)
STBD. PUMP ONLY

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

Observer's name: B. Davis / Z. Sheller **Observer firm** REMSA, Inc

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 52 **LOAD start date:** 30 MAR 08 **Times (24hrs): Start** 0410 **End** 0524

Condition of screening : Port GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: FINE SAND / SILT w/ NO DEBRIS OR BIOTA

Weather conditions: drizzel to light rain, 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):** NE @ 10-15 Kt. occasional higher gusts, 20 Kt.

AIR TEMP: 49 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/°F **Column (mid-depth)** ____ °C / °F **Bottom** ____ °C / °F

SCREEN TYPE

✓ **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: clear

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: [RANGE "C" LEG] seas higher on dumprun
Near shore dump → (DUMP @ 0616)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V MCFARLAND

DREDGE FIRM: USACE

LOAD #: 53 **LOAD start date:** 30 Mar 08 **Times (24hrs): Start** 0720 **End** 0828

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI. **Size of dragheads:** 12' X 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** GOOD BOTH

Type of material dredged: Fine sand and silt

Weather conditions: Cloudy, occasional light rain, 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: 2-3 **ft. Wind (speed & direction):** NE @ 6-12 Kt. gusts to 20 Kt. occasional

AIR TEMP: 49 °C (°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C (°F) **Column (mid-depth)** (unavailable) **°C /°F Bottom** ____ **°C /°F**

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	(**100%**)
____ **Overflow screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: 6 Atlantic Horseshoe crabs (2 male 4 female) wire, rope, broken bivalves, plastic debris, 1 Lightning whelk

STARBOARD SCREEN CONTENTS: 1 H. S. crab carapace, fiberglass panels, plastic strips, broken bivalve shells

* 1 Channeled Whelk - released alive, apparently undamaged (overboard)

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 7
Blue crab 0

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

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

Comments: [RANGE "C" Leg] Seas higher on disposal run to nearshore area; 0734 = T. truncatus - middle of inner harbor (3-5) (DUMP @ 0919)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature B. D

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** m/v McFARLAND

DREDGE FIRM: USACE

LOAD #: 54 **LOAD start date:** 30 MAR 08 **Times (24hrs): Start** 1020 **End** 1113

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 1 (STBD.) **Type of dragheads used:** CALI. **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** BOTH GOOD

Type of material dredged: FINE SAND & SILT

Weather conditions: cloudy, breezy, scattered light showers

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 (IN HARBOR) **ft. Wind (speed & direction):** NE @ 15-20 kt.

AIR TEMP: 52 °~~C~~/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °~~C~~/°F **Column (mid-depth)** (unavailable) °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: 1 Horseshoe CRAB, BROKEN BIVALVE SHELLS

STARBOARD SCREEN CONTENTS: 6 Horseshoe CRABS, MINOR wood/plastic/monofilament debris; MINOR FIBERGLASS DEBRIS

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 7
- **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: [RANGE "C" LEG] Seas higher on disposal run to nearshore area.
@ 1006 - Port Ball Joint - wire burning - STBD. drag only while repairing (DUMP @ 1210)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 55 **LOAD start date:** 31 Mar 08 **Times (24hrs): Start** 0819 **End** 1033

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI. **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** GOOD BOTH

Type of material dredged: FINE SAND & SILT & SOME CLAY & STUCK IN hopper HAD TO WORK IT OUT

Weather conditions: RAIN, LOW CLOUD, MODERATE BREEZE (LT. RAIN TO MIST IN DREDGE AREA)

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):** E @ 6-12 M/ gusts to 19 Kt. in harbor

AIR TEMP: 60 °~~C~~/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 °~~C~~/F **Column (mid-depth)** _____ °C/°F **Bottom** _____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	(**100%**)
____ **Overflow screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: 6 Horseshoe CRABS, 1 piece METAL SCRAP, MINOR RUBBER DEBRIS

STARBOARD SCREEN CONTENTS: 12 Horseshoe CRABS, 1 ATLANTIC STINGRAY, PLASTIC-COATED WIRE DEBRIS, 1 piece of RUBBER

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 18

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: (RANGE "C" LEG) Weighed anchor @ 0715 from WX Standby offshore. 0830 - 0841 C. truncatus, inner harbor (2) OFFSHORE AREA (DUMP @1200)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 56 **LOAD start date:** 31 MAR 08 **Times (24hrs): Start** 1341 **End** 1522

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: FINE SAND, SILT, & CLAY

Weather conditions: OVERCAST, RAIN SHOWERS

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: 2-4 **ft** **Wind (speed & direction):** SE @ 14 kt

AIR TEMP: 65 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface LAUNCH 56.5 °C/°F WXMATE 57-58 **Column (mid-depth)** ____ °C /°F **Bottom** ____ °C /°F

SCREEN TYPE

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

PORT SCREEN CONTENTS: 6 Horseshoe CRABS, MINOR DEBRIS (wood, rubber)

STARBOARD SCREEN CONTENTS: 5 Horseshoe CRABS, 1 clearnose SKATE, MINOR DEBRIS (plastic, wood, monofilament)

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 11
- **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: (RANGE C Leg) 1319 (1) TE IN West leg (multiple) 1400 (2) TE (multiple) EAST leg & [RIT] FUEL DUMP 1509 (2) TE @ green #29 (DUMP @ 1630)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 57 **LOAD start date:** 31 MAR 08 **Times (24hrs): Start** 1820 **End** 2053

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: FINE SAND, SILT, & CLAY

Weather conditions: 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: 2 **ft** **Wind (speed & direction):** SW @ 8-10 Kt

AIR TEMP: 66 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/°F **Column (mid-depth)** — °C/°F **Bottom** — °C/°F

SCREEN TYPE

✓ Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Horseshoe CRAB, 1 piece of wood, 1 piece fiberglass metal cable, metal pieces MINOR

STARBOARD SCREEN CONTENTS: 9 Horseshoe CRABS, 1 piece of metal 1 piece of fiberglass

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 10
- **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: (Rit & Rangel Leg) Tt (2-6) present foraging in WEST & EAST leg ~~[illegible]~~ All dig DUMP @

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

Observer's name: BRAD DAVIS / ZACH SHELLER **Observer firm** REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** m/v McFarland

DREDGE FIRM: USACE

LOAD #: 58 **LOAD start date** 01 APR 08 **Times (24hrs): Start** 0014 **End** 0237

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: fine sand w/ clay

Weather conditions: Mostly cloudy Fresh breeze

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	

Harbor **Waves:** 2-3 **ft** **Wind (speed & direction):** E @ 11-16 gusts to 22 kt. offshore

AIR TEMP: 64 **°C/(°F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 57-58 **°C/(°F) Column (mid-depth)** ____ **°C/°F Bottom** ____ **°C/°F**

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	**(100%)**
____ **Overflow screening:**	**(None)**	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	**(None)**	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: broken bivalve shells, wood & wire, fishing line, fabric, plastic trash

STARBOARD SCREEN CONTENTS: 2 H. S. crabs, broken bivalves, wood, fishing line.

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 2
Blue crab 0

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

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

Comments: (RANGE C Leg) Nearshore ~~OFFSHORE~~ B.P. AREA (DUMP @0324)

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

Observer's name: B. Davis / Z. Sheller **Observer firm** REMSA, Inc

Observer signature [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 59 **LOAD start date:** 01 APR 08 **Times (24hrs): Start** 0493 **End** 0647

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI. **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** GOOD BOTH

Type of material dredged: Sand, silt, smelly muck & debris

Weather conditions: overcast skys, slight breeze, scattered lt. showers

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	

Harbor **Waves:** 1 **ft. Wind (speed & direction):** E @ 4-6 Kt.

AIR TEMP: 64 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 57-58 °C/(°F) **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	(**100%**)
____ **Overflow screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: 4 H.S. crabs, metal, rubber, plastic, fabric gastropod shells.

STARBOARD SCREEN CONTENTS: 12 H.S. crabs, bivalves, metal, rubber

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 16
Blue crab 0

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

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

Comments: (RANGE C Leg) Nasty load (Nearshore DUMP @ 0735)

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

Observer's name: B. DAVIS / Z. SHELLER **Observer firm** REMSA, INC

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 60 **LOAD start date:** 01 APR 08 **Times (24hrs): Start** 0855 **End** 0912

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI. **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good Both

Type of material dredged: Fine Sand, Silt, & Clay

Weather conditions: Mostly Cloudy, Slight Breeze, Surface haze

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):** SW @ 6-10 Kt.

AIR TEMP: 66 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 57 °C/(°F) **Column (mid-depth)** _____ °C/°F **Bottom** _____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	(100%)
____ **Overflow screening:**	(None)	25%	50%	75%	100%
____ **Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 horseshoe Crab, Many Welding Rods, Couple pieces of metal, fishing mono filament

STARBOARD SCREEN CONTENTS: 1 piece of plastic

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: (Range "C" Leg) Stopped load early to make repairs. (Nearshore Dump @ 1008) Anchored offshore after dump for repairs. Observer standing by. @ Position 34°39.519'N x 76°41.184'W

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc.

Observer signature [signature]

* Weighed Anchor @ 1750

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 61 **LOAD start date:** 01 APR 08 **Times (24hrs): Start** 1849 **End** 2106

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine Sand & Silt

Weather conditions: Mostly 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: 3-6 ft offshore **Wind (speed & direction):** SW @ 14-18 kt

AIR TEMP: 66 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58.7 °C/(°F) → launch **Column (mid-depth)** ____ °C / °F **Bottom** ____ °C / °F

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

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

Other screening: (None) 25% 50% 75% 100%

PORT SCREEN CONTENTS: 1 Horseshoe Crab, Southern Quahog & Bay Scallop shells (minor), minor wood / metal cable

STARBOARD SCREEN CONTENTS: 2 Horseshoe crabs, 3 pieces fiberglass, 1 piece of Rubber

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab 3

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: (Range "C" Leg) (Dump @ 2200)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** m/v McFarland

DREDGE FIRM: USACE

LOAD #: 62 **LOAD start date:** 01 APR 08 **Times (24hrs): Start** 2338 **End** 0210

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: Fine sand

Weather conditions: 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: 3-4 **ft. Wind (speed & direction):** SW @ 12-14 Kt gusts to 20 Kt.

AIR TEMP: 60-64 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/°F **Column (mid-depth)** (unavailable) °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **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 H.S. crabs, wood, wire, plastic bivalves

STARBOARD SCREEN CONTENTS: 3 H.S. crabs, bivalves, plastic wood, gastropods - Ch. whelk

Estimate number entrained on this load for the following:

Sturgeon (any species)	0
Shark (any species)	0
Horseshoe crab	5
Blue crab	0

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

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

Comments: (RANGE C Leg) (DUMP @ 0303)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** m/v McFarland

DREDGE FIRM: USACE

LOAD #: 63 **LOAD start date:** 02 Apr 08 **Times (24hrs): Start** 0409 **End** 0628

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI. **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good Both

Type of material dredged: Fine sand & silt

Weather conditions: clear to partly cloudy – wind shifted to S. @ 0500

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 @ 6-12 Kt.

AIR TEMP: 63 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

* **WATER TEMP: Surface** 58 °C/(°F) **Column (mid-depth)** (unavailable) **°C / °F** **Bottom** ____ **°C / °F**

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	(100%)
____ **Overflow screening:**	(None)	25%	50%	75%	100%
____ **Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 6 H.S. crabs, 1 clearnose skate metal plastic, fabric, bivalves – broken

STARBOARD SCREEN CONTENTS: 5 H. S. crabs metal, plastic

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 11
Blue crab 0

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

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

* **Comments:** (RANGE "C" Leg) 58°F @ Beaufort Inlet (NOAA), 0820: T. truncatus (2) off Ft. Macon USCG Sta. (DUMP @ 0716)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc.

Observer signature B. Da

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** m/v McFarland

DREDGE FIRM: USACE

LOAD #: 64 **LOAD start date:** 02 APR 08 **Times (24hrs): Start** 0910 **End** 1054

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI. **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Both Good

Type of material dredged: Sand, Silt, Mud

Weather conditions: mostly cloudy, humid, light breeze

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):** NW @ 0-5 kt.

AIR TEMP: 64 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	(100%)
____ **Overflow screening:**	(None)	25%	50%	75%	100%
____ **Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 10 Horseshoe Crabs, Rope & Fishing Line Debris, couple pieces metal, 1 piece fiberglass, various broken shells

STARBOARD SCREEN CONTENTS: minor wire debris

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 10
- **Blue crab** Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** ✓

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

start 0910

Comments: (R.I.T. Leg) & RANGE "C" - one cut only (DUMP @ 1200)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 65 **LOAD start date:** 02 APR 08 **Times (24hrs): Start** 1323 **End** 1530

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: Sand, Silt, Clay/Mud

Weather conditions: High Cloud Cover Windy

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: 4-7 ft (offshore) **Wind (speed & direction):** N @ 20-24 Kt

AIR TEMP: 61 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	(100%)
____ **Overflow screening:**	(None)	25%	50%	75%	100%
____ **Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 5 Horseshoe Crabs, 1 Smooth Dogfish, various shell pieces, minor metal/plastic debris

STARBOARD SCREEN CONTENTS: 3 Horseshoe Crabs, 1 piece of fiberglass, partial tire

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** 1
- **Horseshoe crab** 8
- **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: (Range "C" Leg) 1340 Tt (8) West Leg (multiple) & East Leg and RIT 1430 Tt(2) Full Dock & 1500 Tt(2) East/West (Dump @ 1642)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 66 **LOAD start date:** 02 APR 08 **Times (24hrs): Start** 1802 **End** 1952

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good

Type of material dredged: Sand, Silt, Clay/Mud

Weather conditions: 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: 2 **ft Wind (speed & direction):** NNE @ 10 kt

AIR TEMP: 56 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	100%
____ **Overflow screening:**	None	25%	50%	75%	100%
____ **Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Various Shells, 1 piece of wood, minor metal debris

STARBOARD SCREEN CONTENTS: 11 Horseshoe Crabs, 2 clearnosed skates, 1 piece of metal, 1 knobbed whelk

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 11
- **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: (Range "C" Leg) 1810 TED (2) Range C & RIT (Dump @ 2100)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 67 **LOAD start date:** 02 APR 08 **Times (24hrs):** **Start** ~~0018~~ 2231 B.P. **End** 0013

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: fine sand, silt & debris

Weather conditions: CLEAR, WINDY

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: 4-6 **ft** **Wind (speed & direction):** NE @ 20-22 Kt

AIR TEMP: 54 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(°F) **Column (mid-depth)** (unavailable) °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	(100%)
____ **Overflow screening:**	(None)	25%	50%	75%	100%
____ **Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Atlantic Stingray, 2 H.S. crabs & the usual debris

STARBOARD SCREEN CONTENTS: 6 H.S. crabs, debris & 1 cleanose skate, 1 Atl. Stingray

Estimate number entrained on this load for the following:

Sturgeon (any species)	0
Shark (any species)	0
Horseshoe crab	8
Blue crab	0

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

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

Comments: (RANGE "C" Leg) (DUMP @ 0107)

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

Observer's name: BRAD DAVIS / ZACH SHELLER **Observer firm** REMSA, INC

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 68 **LOAD start date:** 03APR08 **Times (24hrs): Start** 0214 **End** 0407

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** GOOD BOTH

Type of material dredged: Fine sand, silt, debris

Weather conditions: cloudy, gentle breeze

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):** N @ 10-15 gusts to 20 kt.

AIR TEMP: 50 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 58 °C/(F) **Column (mid-depth)** — °C/°F **Bottom** — °C/°F

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	(**100%**)
____ **Overflow screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	(**None**)	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: fine sand, metal, plastic, rope, broken shell & 6 H.S. crabs

STARBOARD SCREEN CONTENTS: broken shell, plastic fabric strips, 1 clearnose skate, 2 H.S. crabs

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 8
Blue crab 0

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

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

Comments: (RANGE C Leg) (DUMP @ 0457)

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

Observer's name: BRAD DAVIS / ZACH SHELLER **Observer firm** REMSA, INC

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** ____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** M/V McFarland

DREDGE FIRM: USACE

LOAD #: 69 **LOAD start date:** 03 APR 08 **Times (24hrs): Start** 0602 **End** 0800

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Good both

Type of material dredged: Fine sand w/ clay balls & debris

Weather conditions: cloudy skys, scattered showers after 0600 hrs.

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: ~~54~~ B.D. ft. Harbor 1-2 **Wind (speed & direction):** N @ 6-12 Kt. gusts to 20 kt. outside

AIR TEMP: 54° °~~C~~/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 °~~C~~/(°F) **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓	**Inflow screening:**	None	25%	50%	75%	(100%)
____	**Overflow screening:**	(None)	25%	50%	75%	100%
____	**Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: metal & plastic debris, 1 clearnose skate, 3 H.S. crab

STARBOARD SCREEN CONTENTS: 6 H.S. crab, 1 Atlantic Stingray & debris as above

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** 0
- **Shark (any species)** 0
- **Horseshoe crab** 9
- **Blue crab** 0

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

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

Comments: (R.I.T. Leg) 0730: T. trunc. just S. of Hwy. Bridge (↓) (DUMP @ 0909)

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

Observer's name: Brad Davis / Zach Sheller **Observer firm** REMSA, Inc.

Observer signature B. Davis

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Wilmington, NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: Morehead City Inner Harbor **DREDGE NAME:** m/v McFarland

DREDGE FIRM: USACE

LOAD #: 70 **LOAD start date:** 03 Apr 08 **Times (24hrs): Start** 1046 **End** 1229

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

Number of dragheads in use: 2 **Type of dragheads used:** CALI. **Size of dragheads:** 12' x 8'

Draghead deflector? YES ✓ **NO** ____ **Condition of deflector:** Both Good

Type of material dredged: Mud/Clay, Sand, Silt

Weather conditions: cloudy, rainy

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):** NE @ 12-18 Kt.

AIR TEMP: 54 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 56 °C/(°F) **Column (mid-depth)** _____ °C/°F **Bottom** _____ °C/°F

SCREEN TYPE

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

PORT SCREEN CONTENTS: 1 Horseshoe Crab, 1 clearnose skates, Metal scrap, minor plastic/rope/monofilament debris, various shells (southern quahog, scallops, etc...)

STARBOARD SCREEN CONTENTS: 5 Horseshoe Crabs, 1 clearnose skate, 1 Blue crab, broken crab pot, minor rope/monofilament debris, 2 lightning whelks.

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** Ø
- **Shark (any species)** Ø
- **Horseshoe crab** 6
- **Blue crab** 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ **NO** ✓

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

Comments: (R.I.T. Leg) Wild ponies on Shackleford Banks (Approx. 20) 1157(2) TH RIT & RANGE "C" (DUMP @ 1332)

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

Observer's name: Brad Davis & Zach Sheller **Observer firm** REMSA, Inc.

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 71 **LOAD start date:** 03 APR 08 **Times (24hrs): Start** 1312 **End** 1715

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: CLAY/MUD, SAND

Weather conditions: OVERCAST, RAIN SHOWERS

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: 2-4 **ft Wind (speed & direction):** ESE @ 12-14 kt

AIR TEMP: 62 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/(F) **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	None	25%	50%	75%	(100%)
____ **Overflow screening:**	(None)	25%	50%	75%	100%
____ **Other screening:**	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 HORSESHOE CRAB, 2 pieces of METAL VARIOUS shells

STARBOARD SCREEN CONTENTS: 2 clearnose SKATES, 1 Horseshoe CRAB, 1 LIGHTNING WHELK, VARIOUS BIVALVE & GASTROPODA SHELLS

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: (RANGE "C" Leg) 1450 (4) TT RANGE "C" 1442 (4) TT RANGE "C" 1646 TT (1) TT EAST Leg (DUMP @ 1820)

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

Observer's name: BRAD DAVIS / ZACH SHELLER **Observer firm** REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON NC

CONTRACT #: GDSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V MC FARLAND

DREDGE FIRM: USACE

LOAD #: 72 **LOAD start date:** 03 APR 08 **Times (24hrs): Start** 2008 **End** 2200

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: CLAY / MUD, SAND

Weather conditions: OVERCAST, RAIN SHOWERS

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: 2-4 **ft Wind (speed & direction):** E @ 12 KT

AIR TEMP: 63 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 57 °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

✓ **Inflow screening:**	**None**	**25%**	**50%**	**75%**	**100%**
____ **Overflow screening:**	**None**	**25%**	**50%**	**75%**	**100%**
____ **Other screening:**	**None**	**25%**	**50%**	**75%**	**100%**

PORT SCREEN CONTENTS: 1 ATLANTIC STINGRAY, 1 CLEARNOSE SKATE, VARIOUS SHELLS CLAY GLOBS

STARBOARD SCREEN CONTENTS: 1 HORSESHOE CRAB, PARTIAL TIRE

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: (RANGE "C" LEG) NEARSHORE (DUMP @ 2250)

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

Observer's name: BRAD DAVIS / ZACH SHELLER **Observer firm** REMSA, INC

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: WILMINGTON NC

CONTRACT #: GOSNAP-08-G-0001 **Maintenance** ✓ **/New Work** _____ **PROJECT start date** 21 MAR 08

PROJECT NAME: MOREHEAD CITY INNER HARBOR **DREDGE NAME:** M/V McFARLAND

DREDGE FIRM: USACE

LOAD #: 73 **LOAD start date:** 04 APR 08 **Times (24hrs): Start** 0006 **End** 0311

Condition of screening : **Port** GOOD **Starboard** GOOD **Overflow** NONE

Number of dragheads in use: 2 **Type of dragheads used:** CALI **Size of dragheads:** 12' x 8'

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

Type of material dredged: Fine sand w/ silt & debris

Weather conditions: Mostly clear, strong stack odor throughout

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):** E @ 7 kt.

AIR TEMP: 64 °~~C~~/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32)) (unavailable)

WATER TEMP: Surface 58 °~~C~~/(F) **Column (mid-depth)** _____ °C / °F **Bottom** _____ °C / °F

SCREEN TYPE

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

PORT SCREEN CONTENTS: debris – metal, plastic, fishing line & H.S. crabs

STARBOARD SCREEN CONTENTS: debris as above, 3 H.S. crabs broken bivalves / Atlantic Stingray

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** 0
- **Shark (any species)** 0
- **Horseshoe crab** 9
- **Blue crab** 0

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

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

Comments: (RANGE C Leg) FINAL LOAD (DUMP @ 0425)

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

Observer's name: BRAD DAVIS / ZACH SHELLER **Observer firm** REMSA, INC

Observer signature B. Davis