ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN WEEKS

Project: SAVANNAH, GA

Date: 02 / 13 / 01

Load # 1 Start 1148 End 1258 Dump 1312

Location (lat/long, stations) 2'-3' sea swell, Cloudy 53°F Tide Stage 6.06

Weather (wind dir, beaufort, sea state, temp, etc.) $-40^{+00} \rightarrow -45^{+00}$

Water Temp., Surface 52°F @1200 Below Mid-Depth 50°F

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead Clear Starfish, Whelk Shell Deflector Clear

Stbd Draghead Clear Starfish Deflector Clear

Port Inflow, Fore Whelk, Starfish Mid N/A

Port Inflow, Aft Clear

Stbd Inflow, Fore Whelk, Starfish Mid N/A

Stbd Inflow, Aft Clear

Port Overflow, Primary } Clear Secondary N/A.

Stbd Overflow, Primary } Secondary N/A.

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

Started dredging 1148 HRS. Material consists mainly of silt. All screening is in good condition

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN Weeks

Project: Savannah Ga

Date: 02 / 13 / 01

Load # 2 Start 1334 End 1420 Dump 1435

Location (lat/long, stations) Stations -40+00 → -45+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) NNE 5-7, 2'-3' sea swell, Cloudy, 56°F

Water Temp., Surface 52°F Below Mid-Depth 50°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead } Clear Deflector

Stbd Draghead } Clear Deflector Clear } starfish

Port Inflow, Fore Horseshoe crab, Blue crab, Whelk Mid N/A

Port Inflow, Aft N/A

Stbd Inflow, Fore Horseshoe crab, blue crab, whelk, eel Mid N/A

Stbd Inflow, Aft N/A

Port Overflow, Primary } Clear Secondary N/A

Stbd Overflow, Primary } Secondary N/A.

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

Material remains the same (Silt + Sand). Screening is in good condition

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN Weeks

Project: Savannah, Ga

Date: 02 / 13 / 01

Load # 3 Start 1454 End 1532 Dump 1548

Location (lat/long, stations) Stations, -40+00 → 45+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) NNE 5-6, 2'-3' sea swell, Cloudy + 58°F

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

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead clear Deflector clear

Port Inflow, Fore Horseshoe + Blue Crabs, Sea Squirt, Whelk, ? Mid N/A

Port Inflow, Aft N/A Horseshoe crab.

Stbd Inflow, Fore Horseshoe + Blue Crab, Sea Squirt, eels Whelk Mid N/A

Stbd Inflow, Aft N/A

Port Overflow, Primary } clear Secondary N/A

Stbd Overflow, Primary } Secondary N/A

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

Material remains the same (Silt + Mud). Screening is in good condition & effective

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	1	1506 / between 6+8 / Heading East down channel.

Observer(s) on duty C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN Weeks

Project: Savannah Ga

Date: 02 / 13 / 01

Load # 4 Start 1607 End 1651 Dump 1707

Location (lat/long, stations) Stations -40+00 → -45+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) NNE → N 5-6, 2-3' sea swell, Cloudy, 56°F

Water Temp., Surface 52°F Below Mid-Depth 50°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector

Stbd Draghead clear Deflector

Port Inflow, Fore HORSESHOE CRAB, Whelk, Eels, STARFISH Mid N/A

Port Inflow, Aft N/A

Stbd Inflow, Fore SAME AS ABOVE, MANTIS SHRIMP Mid N/A

Stbd Inflow, Aft N/A

Port Overflow, Primary 3 clear Secondary N/A

Stbd Overflow, Primary 3 clear Secondary N/A

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

Material remains the same. Screening is in good condition & effective.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	2 / 3	1625 HRS / BTWN 6+8 / swimming around stern

Observer(s) on duty C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN WEEKS

Project: SAVANNAH, GA.

Date: 02 / 13 / 01

oad # 5 Start 1729 End 1817 Dump 1836

ocation (lat/long, stations) Stations - -40+00 → -45+00 Tide Stage

/eather (wind dir, beaufort, sea state, temp, etc.) Same

Water Temp., Surface 52 °F Below Mid-Depth 50 °F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector

Stbd Draghead Clear Deflector

Port Inflow, Fore Horseshoe Crabs, Whelk

Port Inflow, Aft N/A

Stbd Inflow, Fore Horseshoe Crabs, Whelk, Horse Conch.

Stbd Inflow, Aft N/A.

Port Overflow, Primary } Clear

Stbd Overflow, Primary }

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

Material remains the same (silt + sand). Screening is in good condition and effective

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty C. Carroll / P. Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN WEEKS

Project: SAVANNAH, GA

Date: 02 / 13 / 01

Load # 6 Start 1906 End 1946/2015 Dump 2030

Location (lat/long, stations) Stations -40+00 → -45+00 Tide Stage 0.94

Weather (wind dir, beaufort, sea state, temp, etc.) NW 3-5, 2' sea swell, Cloudy

Water Temp., Surface 52°F Below Mid-Depth 50°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead } clear Deflector

Stbd Draghead } clear Deflector

Port Inflow, Fore Mid N/A

Port Inflow, Aft N/A.

Stbd Inflow, Fore Mid N/A

Stbd Inflow, Aft N/A

Port Overflow, Primary } clear Secondary N/A

Stbd Overflow, Primary } clear Secondary N/A

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

Material & Screening remains the same.

7	2050	2135	2149
8	2208	2258	2310

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty C. Carroll / P. Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN WEEKS

Project: SAVANNAH, GA

Date: 02 / 14 / 01

Load # #9 Start 2330 End 2400 Dump 0011

Location (lat/long, stations) STATION: -40+00 → -45+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) FOG, LIGHT VAR. BREEZE, 1-2' SEA SWELL, 73°/56°

Water Temp., Surface 52°F/53°F Below Mid-Depth 50°/51°F

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead clear } SEA STARS Deflector OK

Stbd Draghead Deflector OK

Port Inflow, Fore SKATE, WHELK, HORSESHOE + BLUE CRABS, SEA STARS (LOAD #10 SHUTDOWN)

Port Inflow, Aft

Stbd Inflow, Fore HORSESHOE + BLUE CRABS, WHELK, PENNSHELL, SEA STAR, SAND DOLLARS, SEA URCHINS

Stbd Inflow, Aft HORSESHOE CRAB WHELK, SEA STARS, SEA URCHINS, TUBE WORMS, SEA SQUIRT, SAND DOLLARS, Spider Crabs

Port Overflow, Primary } HORSESHOE CRABS

Stbd Overflow, Primary

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

LOAD #	START	STOP	DUMP	NOTES
#10	2330	0236	0300	→ (DOWN TO ONE ARM) & PORT REPAIR
#11	0315	0450	0515	SAME AS PREVIOUS
#12	0527	0647	0708	" " " "
#13	0729	0911	0928	" " " "
#14	0957	1126	1141	" " " "
#15	1200	1330	1346	" " " "
#16	1415	1650	1713	" " " "
#17	1810	2024	2041	" " " "

LOAD #	START	STOP	DUMP	NOTES
18	2106	2248	2305	
19	2324			

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tt	3	0816 / between 8+9 / Swimming outbound (EAST)

Observer(s) on duty C. CARROLL / P. WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: RN WEEKS

Project: SAVANNAH, GA

Date: 02 / 15 / 01

ad # 19 Start 2324 End 0100 Dump 0120

cation (lat/long, stations) Stations: 40+00 - 45+00 / 32+50 → 40+00 Tide Stage

eather (wind dir, beaufort, sea state, temp, etc.) SW15, Calm seas, Fog > Clearing, 76°F - 81°F - 68°F

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

re there incidents involving endangered or protected species? YES (NO)

ote biological samples:

ort Draghead OK Deflector OK

bd Draghead OK Deflector OK

ort Inflow, Fore Horseshoe crab, Skates, spider crab, blue crab, sand dollars, sea stars

ort Inflow, Aft " " " " " " " " " " "

tbd Inflow, Fore Dogfish, Skates, Horseshoe crab, sea stars

tbd Inflow, Aft Whelk, sea stars sand dollars Horseshoe crab eels

Port Overflow, Primary } Horseshoe

Stbd Overflow, Primary }

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

	START	END	DUMP
20	0140	0380	0336
21	0404	0644	0706
22	0741	1041	1057
23	1125	1255	1313
24	1340	1614	1633
25	1702	2010	2025
26	2040	2335	0055

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty C. CARROLL / P. WESTERMAN