ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/20/98

Load # 1 Times: Start 1545 End 1703 Dump 1804

Location(lat/long) sta 0+00 + 100+0 Tide 1.4

Weather Skies Partly cloudy, winds NW 10 knots seas 1'

H_2O Surf. Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: Rope, trash, shell Deflector: OK

Stbd Draghead: crab trap, rope, trash Deflector: OK

Port Discharge, Fore: sand dollars

Port Discharge, Aft: sea stars, shell, sea cucumbers, trash, Polychaete

Stbd Discharge, Fore: sand dollars

Stbd Discharge, Aft: sea stars, shell, sea cucumbers, trash

Port Overflow: Ø

Stbd Overflow: Ø

Comments: digging sand and silt

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/20/98

Load # 02 Times: Start 1942 End 2121 Dump 2215

Location(lat/long) sta 0+00 - 100+00 Tide 1.3

Weather skies partly cloudy, winds nw 10 knots, sea 1-2

H_2O Surf Temp 80 Time 2015 Below Mid-Depth 80 Time 2010 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Rope, whelks Deflector: OK

Stbd Draghead: Rope, weed, whelks Deflector: OK

Port Discharge, Fore: Sand dollars

Port Discharge, Aft: sea cucumbers, whelks, weed, sand dollars, sea star, fauna

Stbd Discharge, Fore: Sand dollars

Stbd Discharge, Aft: shell, sally warden crab, spider crabs, sea stars

Port Overflow: &

Stbd Overflow: &

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/21/98

Load # 03 Times: Start 0044 End 0251 Dump 0332

Location(lat/long) Station 0+100 — 100+00 Tide ~~Ebb~~ Flood

Weather skies partly cloudy, winds East 10 kts., seas 1-2'

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

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

Port Draghead: whelks, monofilament Deflector: OK

Stbd Draghead: shell, rope, Big whelks, wood Deflector: OK

Port Discharge, Fore: OK

Port Discharge, Aft: ~~sponge~~ Tunicate, shell, trash, burrfish tonguefish, lobinia, hermit crabs, whelks, dinocardium, hogchoker, redalgae, sea cucs, dollars, urchins, star

Stbd Discharge, Fore: OK

Stbd Discharge, Aft: hermit crabs, dinocardium, tunicate, shell, trash Seahorse, gorgonian, whelks, murex, seacucs, stars, dollars, urchins, tube worms, limulus, redalgae, bryozoa,

Port Overflow: OK

Stbd Overflow: OK

P Overboard OK

S " OK

Comments: ~~[illegible]~~

Very diverse samples - indicative of bottom community.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phylicy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau
Project Charlotte Harbor, Florida

Date: 10 12 198

Load # 04 Times: Start 0541 End 0640 Dump 0830
Location(lat/long) Station 0+00 — 100+00 Tide EBB
Weather skies cloudy, winds E-SE @ 15kts, seas 2'
H_2O Surf Temp 86 Time 1100 Below Mid-Depth 79 Time 0957 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Rope, whelks, wood Deflector: OK
Stbd Draghead: Rope, whelks, wood, metal trash Deflector: OK
Port Discharge, Fore: Sand dollars
Port Discharge, Aft: Horseshoe crabs, shell, oysters, sand dollars
Stbd Discharge, Fore: 0
Stbd Discharge, Aft: Spider crabs, shell, sea cucumber, tube worms
Port Overflow: 0
Stbd Overflow: 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyllis + Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/21/98

[illegible] OS Times: Start 1026 End 1212 Dump 1244

[illegible] (lat/long) sta 0+00 + 100+00 Tide 1.0

[illegible] skies partly cloudy, light airs, seas calm

[illegible] Temp: _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

[illegible] there incidents involving endangered or protected species? Yes ____ No X

[illegible] Draghead: Rope, whelks, metal trash Deflector: OK

[illegible] Draghead: Rope, whelks Deflector: OK

[illegible] Discharge, Fore: 0

[illegible] Discharge, Aft: Horseshoe crabs, blue crabs, sea stars, shell, hogchocker

[illegible] Discharge, Fore: 0

[illegible] Discharge, Aft: Batfish, butterfly ray, shell, sea stars, burrfish, flounder

[illegible] Overflow: 0

[illegible] Overflow: Trash

[illegible]

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
[illegible]	2	1117	Near buoy 4

[illegible]server(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10 / 21 / 98

Load # 06 Times: Start 1507 End 1659 Dump 1737

Location(lat/long) Stat. 0+00 — 100+00 Tide High

Weather Clear to Partly cloudy, light airs, seas calm

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Draghead: whelks, rope, Deflector: OK

Draghead: whelks, cockles, shell, wood Deflector: OK

Discharge, Fore: OK

Discharge, Aft: olive snail, whelk, cockles, red algae, gorgonian, sardinella aurita, sponge, sand $, sea cuc's, stars

Discharge, Fore: sponge, sand dollars

Discharge, Aft: red algae, bryoz., gorgonian, sponge, tunicate (sea pork), limulus shell, sand dollars, sea stars + cuc's, parchment / tube worms, shells, whelks,

Overflow: ok

Overflow: OK

Overboard: OK

: Ok

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Birds	10+	continuous	→ @ cut. frigate birds, brown pelicans, cormorants, gulls

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10 / 21 / 98

Load: 07 Times: Start 1953 End 2143 Dump 2225

Location(lat/long) Sta. 0+00 – 100+00 Tide EBB

Weather: clear to partly cloudy, winds N @ 5 kts, seas 0-2 feet

Water Temp. _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Were incidents involving endangered or protected species? Yes ____ No X

Draghead: whelks, shell Deflector: OK

Draghead: whelks, weed, shell Deflector: OK

Discharge, Fore: OK, sand dollar, tonguefish

Discharge, Aft: Libinia dubia, red algae, bryoz, tunicate, seastar, cuc's, urchins, limulus, whelk, cockles, worms

Discharge, Fore: OK

Discharge, Aft: Dolly Varden Crab, red algae, conch, bryoz, worms, sand $, seastars, cuc's

Overflow: OK

Overflow: OK

Starboard OK

OK

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phylicky, Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/22/98

Load # 04 Times: Start 0025 End 0211 Dump 0259

Location(lat/long) sta 0+00 - 100+00 Tide 1.7

Weather skies partly cloudy, winds light airs, sea 1'

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: Rope, whelks Deflector: OK

Stbd Draghead: Rope, whelks Deflector: OK

Port Discharge, Fore: Ø

Port Discharge, Aft: speckled crabs, sea stars, horseshoe crabs, bagshacker

Stbd Discharge, Fore: Ø

Stbd Discharge, Aft: Penshell whelks, spider crab, sea stars, sand dollars

Port Overflow: Ø

Stbd Overflow: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/12/98

[illegible] 09 Times: Start 0458 End 0705 Dump 0759

[illegible](lat/long) Stg+00, 100-00 Tide 1.0

[illegible] Skies Partly cloudy, winds s-v variable, seas 1-2'

[illegible] Surf/Temp 78° Time 0818 Below Mid-Depth 80° Time 0820 C or (F) (circle one)

75°F

[illegible] there incidents involving endangered or protected species? Yes ____ No X

[illegible] Draghead: whelk, crabpot line, shell Deflector: OK

[illegible] Draghead: Limulus, whelk, conch Deflector: OK

[illegible] Discharge, Fore: OK, sand $

[illegible] Discharge, Aft: whelk, limulus, butterfly ray, sand $, sea cucumber, strom (fighting conch), red algae, gorgonian

[illegible] Discharge, Fore: OK

[illegible] Discharge, Aft: Dolly Varden crab, whelk, gorgonian, red algae, shell, sponge, tunicate

[illegible] Overflow: OK

[illegible] Overflow: OK

[illegible] board OK

[illegible] OK

[illegible]

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Phyllky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10 / 22 / 98

Load # 10 Times: Start 1013 End 1159 Dump 1310

Location(lat/long) Station 0+00 — 100+00 Tide Flood

Weather skies overcast, winds N-NE, 8-10kts, Beaufort 1, Seas 4

T.O. Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead: whelk, shell, plastic Deflector: OK

Stbd Draghead: whelk, conch Deflector: OK

Port Discharge, Fore: OK, sand dollars

Port Discharge, Aft: Whiting (Paralichthys) sea star, urchin, sand $, cuc's, bryoz, tunicate, wood, monofilament. flounder, Citharichthys sa ~~ctropus~~, libinia, portunus crab, cockles, whelk

Stbd Discharge, Fore: OK,

Stbd Discharge, Aft: whelk, cockle, shell, sand $, sea stars, cuc's, monofilament, wood, red algae tunicate, bryoz.

Port Overflow: OK

Stbd Overflow: OK

Overboard OK

OK

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/22/98

Load # 11 Times: Start 1647 End 1729 Dump 1730

Location(lat/long) Sta. 30+00 — 60+00 Tide 0.8

Weather skies Partly cloudy, wind NE 15 knots sec 2-3'

T.O. Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No V

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø

Port Discharge, Aft: Seaweed bar, sand dollars

Stbd Discharge, Fore: Ø

Stbd Discharge, Aft: Seaweed bar, sand dollars

Port Overflow: Ø

Stbd Overflow: Ø

Comments: The dredge will start to dump the loads instead of pumping out

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyllsky / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/22/98

Load # 12-13 Times: Start 1738 1844 End 1822 1935 Dump 1833 1937

Location(lat/long) sta 30+00-60+00 Tide 0.8

Weather mostly cloudy, winds NE 15 knots Sea 2-3

H-O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

	12	13		
Port Draghead:	∅	∅	Deflector: OK	OK
Stbd Draghead:	whilk	∅	Deflector: OK	OK
Port Discharge, Fore:	∅	sand dollars		
Port Discharge, Aft:	∅	whilks		
Stbd Discharge, Fore:	∅	sand dollars		
Stbd Discharge, Aft:	∅	whilk sea cucumber		
Port Overflow:	∅			
Stbd Overflow:	∅			

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/22/98

Load # 14-15 Times: Start 2133 1948 End 2314 2113 Dump 2315 2175

Location (lat/long) S/C 30'00 60'00 Tide 0.7

Weather Partly cloudy winds NE 25-30 knots sics 2-3

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Draghead: Rope	~~whelks~~ 15 ok	Deflector: OK	ok
Draghead: Horseshoe crab	whelks	Deflector: OK	ok
Discharge, Fore: Sand dollars	~~wire~~ OK		
Discharge, Aft: 0	wire		
Discharge, Fore: Sand dollars	OK		
Discharge, Aft: whelks	OK		
Overflow: 0	OK		
Overflow: 0	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: [illegible], Phyllis

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/22/23 98

Load # 16-17 Times: Start 16: 2330 / 17: 0033 End 0022 / 0153 Dump 0023 / 0156

Location(lat/long) Sta. 30+00 - 60+00 Tide Flood

Weather Cloudy, winds NE 20-30 kts, seas 3'-5'

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Were there incidents involving endangered or protected species? Yes ___ No X/X

	16	17		
Draghead:	OK	OK	Deflector: OK	OK
Draghead:	OK, whelk	whelks	Deflector: OK	OK
Discharge, Fore:	sand $, shell	sand $		
Discharge, Aft:	sand $, spotted crab, whelk	OK		
Discharge, Fore:	OK	OK		
Discharge, Aft:	conch, whelk, sand $	OK		
Overflow:	OK	OK		
Overflow:	OK	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/23/98

[illegible] 18-19 Times: Start 18:0205 19:0400 End 0345 0512 Dump 0347 0514

[illegible](lat/long) Sta. 30+00 — 60+00 Tide FLOOD

[illegible] cloudy skies, winds NE 25-30 kts, seas 3'-5'+

[illegible]/Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

[illegible] incidents involving endangered or protected species? Yes | No X | X

	18	19			
[illegible] Draghead:	ok	line	Deflector:	ok	ok
[illegible] Draghead:	whelk, ok	line, whelks	Deflector:	ok	ok
[illegible] Discharge, Fore:	sand $	ok			
[illegible] Discharge, Aft:	ok	whelk, cockle, sand $			
[illegible] Discharge, Fore:	OK	OK			
[illegible] Discharge, Aft:	whelk, gorgonian	ok			
[illegible] Overflow:	OK	OK			
[illegible] Overflow:	OK	OK			

[illegible]ments:

Bridge Watch Summary

[illegible]	# of Animals	Time	Location & Comments

[illegible]erver(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/23/98

Load # 20 Times: Start 0530 End 0734 Dump 0737

Location (lat/long) STG 30400 - 60400 Tide

Weather cloudy, winds NE 25 knots, seas 2-4

Surface Temp Time Below Mid-Depth Time C or F (circle one)

Were incidents involving endangered or protected species? Yes No ✓

Port Draghead: Rope Deflector: O/C

Stbd Draghead: O Deflector: OC

Port Discharge, Fore: O

Port Discharge, Aft: shore found crab, whelk, sand dollars, wood

Stbd Discharge, Fore: O

Stbd Discharge, Aft: sand dollars, trash

Port Overflow: O

Stbd Overflow: O

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/23/98

21
22 Times: Start 0752 1008 End 0908 1132 Dump 0957 1130

(lat/long) sta 30+00 - 60+00 Tide 0.8 Ebb

mostly cloudy, winds NE 25 knots, seas 2-4

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Were incidents involving endangered or protected species? Yes ____ No ✓

Draghead: Rope	Rope	Deflector: OK	OK
Draghead: whelks	whelks	Deflector: OK	OK
Discharge, Fore: sand dollars	sand dollars		
Discharge, Aft: Ø	sand dollars		
Discharge, Fore: sand dollars	sand dollars		
Discharge, Aft: whelk, [illegible]	[illegible], whelk, sand dollar		
Overflow: Ø			
Overflow: Ø			

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/23/98

Load # 23 24 Times: Start 1142 1248 End 1237 1901 Dump 1240 1403

Location(lat/long) Sta 30+00-60+00 Tide Ebb

Weather cloudy, winds NE 20 knots Sea 2-3'

Surf Temp 78 Time 1240 Below Mid-Depth 74 Time 1243 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:	whelk	whelk, rope	Deflector: ok	ok
Stbd Draghead:	Rope whelk	rope whelk	Deflector: ok	ok
Port Discharge, Fore:	Sand dollars	0		
Port Discharge, Aft:	whelks	shell, sand dollars		
Stbd Discharge, Fore:	sand dollars	whelk		
Stbd Discharge, Aft:	whelks	whelk		
Port Overflow:	0	0		
Stbd Overflow:	0	0		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/23/98

Load: 25 / 26 Times: Start 1413 / 1543 End 1534 / 1739 Dump 1536 / 1741

Location (lat/long) Sta 3C+CC-60/OV Tide C.2, Flood

Weather mostly cloudy, winds NE 20 knots, Sea 2-3

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Draghead: OK	~~ok~~ rope, shell	Deflector: OK
Draghead: whelk, crabpot line	rope, conch	Deflector: OK
Discharge, Fore: sand $, shell	sand $, olive snails, shell	
Discharge, Aft: whelk, gorgonian, sand	Shame faced crab, stone crab, sand $, shell	
Discharge, Fore: OK	sand $, OK	
Discharge, Aft: ~~[illegible]~~ Urbinia	wood, conch, gorgonian, sand $	
Overflow: OK, plastic	OK	
Overflow: OK	OK	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyl Ky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10 / 23 / 98

Load # 27 / 28 Times: Start 1757 / 1918 End 1906 / 2035 Dump 1908 / 2038

Location(lat/long) ~~8a~~ 30+00 – 60+00 Tide 0.66

Weather partly cloudy, winds NE 20-25 kts, seas 3-5'

LO Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead:	whelk, rope	whelk, rope	Deflector: ok	OK
Stbd Draghead:	whelk, rope	whelk, rope	Deflector: ok	OK
Port Discharge, Fore:	~~Libinia~~ rope, sand $, shell	trash, sand $		
Port Discharge, Aft:	Libinia, sand $, shell	rope, gorgonian, shell, sand $		
Stbd Discharge, Fore:	OK, sand $	OK		
Stbd Discharge, Aft:	wood, shell,	~~[illegible]~~ shell		
Port Overflow:	OK	OK		
Stbd Overflow:	OK	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 0123 98

29 / 30 24th Times: Start 2048 / 225 End 2244 / 0[illegible] Dump 2247 / 0

[illegible] (lat/long) Sta 30+00 - 60+00 Tide [illegible]

[illegible] Partly cloudy, wind - NE 20 knots SEA 2-3

[illegible] Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

[illegible] there incidents involving endangered or protected species? Yes ____ No ✓ ✓

[illegible] Draghead:	Rope wood	Rope wood	Deflector: OK / OK
[illegible] Draghead:	whelk, rope	Rope whelk	Deflector: OK / OK
[illegible] Discharge, Fore:	0	0	
[illegible] Discharge, Aft:	whelk [illegible]	wood, whelk	
[illegible] Discharge, Fore:	0	0	
[illegible] Discharge, Aft:	[illegible]	whelk	
[illegible] Overflow:	0	0	
[illegible] Overflow:	0	0	

[illegible]ments:

Bridge Watch Summary

[illegible]	# of Animals	Time	Location & Comments

Observer(s) On Duty: [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/24/98

Load # 31 32 Times: Start 0259 0058 End 0448 0247 Dump 0450 0249 0450

Location(lat/long) Sta 30+00-60+00 Tide —

Weather Partly cloudy winds NE 20 knots 5+2-3'

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: Rope, trash	Rope, trash	Deflector: OK	OK
Stbd Draghead: Trash, whelks, rope	Rope, whelks	Deflector: OK	OK
Port Discharge, Fore: Sand dollars	∅		
Port Discharge, Aft: whelks, spider	∅		
Stbd Discharge, Fore: ∅	Pinchall sand dollar		
Stbd Discharge, Aft: whelks, [illegible]	spider crab, whelks		
Port Overflow: ∅	∅		
Stbd Overflow: ∅	∅		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Wetterman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10,24,98

Load # 33 34 Times: Start 0711 0458 End 0710 0657 Dump 0912 0700

Location(lat/long) Sta 30+00-60+00 Tide EBB

Weather Partly cloudy, winds NE 20 knots, sea 2-3 w/ chop

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X ~~OK~~

Port Draghead: whelk, rope	whelk, rope, trash	Deflector: OK	OK
Stbd Draghead: whelk, rope	whelk, rope, monofil.	Deflector: OK	OK
Port Discharge, Fore: sand $, olive snail	sand $		
Port Discharge, Aft: seafan, shell, rope	sand $, gorgonian, monofil, plastic		
Stbd Discharge, Fore: OK	~~[illegible]~~ OK		
Stbd Discharge, Aft: libinian, sand $, sea fan	SQUID, sand $		
Port Overflow: OK	OK		
Stbd Overflow: OK	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Frigate Birds	2-4	0745 →	Soaring in area
1+	4+	0830	Moving Southward in a tight group

Observer(s) On Duty: [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/24/98

Load # 35: 36: Times: Start 0922 1113 End 1105 1257 Dump 1107 1302

Location(lat/long) Sta 30+00 – 60+00 Tide Low → Flood 0.08

Weather clear skies, winds NNE 15-20 kts, seas 2' (swell)

H_2O Surf Temp 74°F Time 1305 Below Mid-Depth 72°F Time 1307 C or (F) (circle one)

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

Port Draghead:	rope, whelk, junk	whelk, junk	Deflector: OK | OK
Stbd Draghead:	rope, whelk	rope, whelk	Deflector: OK | OK
Port Discharge, Fore:	sand $	sand $	
Port Discharge, Aft:	gorgonian, whelk, plastic	stromulus conch, sand $, rope	
Stbd Discharge, Fore:	OK sand $	OK, monofilament	
Stbd Discharge, Aft:	lionia, sand $,	blue crab, sand $, red algae	
Port Overflow:	OK	ok	
Stbd Overflow:	OK	OK	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2x	1105 ish	N of dredge

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/24/98

Load # 37 1334 38 Times: Start 1334 1526 End 1514 1801 Dump 1520 1804

Location(lat/long) Sta. 30+00 — 60+00 Tide .68 FLOOD

Weather clear skies, winds NNE 15-20 kts, seas 2' well

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes___ No ✓

Port Draghead:	Rope, whelk	Ø	Deflector: OK	OK
Stbd Draghead:	Rope, whelk	Rope, whelk	Deflector: OK	OK
Port Discharge, Fore:	Ø	Ø		
Port Discharge, Aft:	whelk	Ø		
Stbd Discharge, Fore:	Ø	Ø		
Stbd Discharge, Aft:	whelk, sand dollar	Ø		
Port Overflow:	Ø	Ø		
Stbd Overflow:	Ø	Ø		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky/westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/24/98

Load # 39 40 Times: Start 1814 2[redacted] End 2004 2207 Dump 2007 2210

Location(lat/long) STA 30+00-60+00 Tide 1.3

Weather Partly cloudy, winds NE 15-20 knots, seas F 3'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓ X

Port Draghead:	Rope, whelk	Rope, whelk	Deflector: OK / OK
Stbd Draghead:	Rope, whelk	rope, whelk	Deflector: OK / OK
Port Discharge, Fore:	Ø	worm tubes, sand $	
Port Discharge, Aft:	whelks, pen shell	trash, sand $, strombus, gorgonian	
Stbd Discharge, Fore:	pen shell, sand dollar	OK	
Stbd Discharge, Aft:	whelks	flounder, gorgonian	
Port Overflow:	Ø	Ø	
Stbd Overflow:	Ø	Ø	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Gulls	25+	2200	N of dredge @ cut

Observer(s) On Duty: ERIC WESTERMAN / Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/24/98
10 25 98

* "DST"

Load # 41 ~~2224~~ 42 Times: Start 2224 0018 End 0006 0104 Dump 0010 0106 ✓

Location(lat/long) Sta 30+00 — 60+00 Tide 1.45 → FLOOD 1.65 → "

Weather partly cloudy, winds E @ 15-20kts, seas 1'-3'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

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

Port Draghead: whelk, rope	whelk, rope	Deflector: ok	OK
Stbd Draghead: whelk, rope	whelk, rope	Deflector: OK	OK
Port Discharge, Fore: OK	OK, worm tube		
Port Discharge, Aft: ok	~~OK~~, sand $		
Stbd Discharge, Fore: OK	OK		
Stbd Discharge, Aft: libinia, sand $	hermit crab, whelk, gorgonian, tunicate		
Port Overflow: ok	OK		
Stbd Overflow: ok	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/25/98

Load # 43 44 Times: "DST" Start 0112 0317 End 0305 0503 Dump 0309 0506

Location(lat/long) Sta. 30+00 - 60+00 Tide 1.8 → FLOOD 1.74 → EBB

Weather Partly cloudy, winds E @ 15-20 kts, seas 1'-3'

H2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes___ No ~~X~~

Port Draghead: rope, whelk	rope, whelk	Deflector: OK	OK
Stbd Draghead: rope	rope	Deflector: OK	OK
Port Discharge, Fore: OK	OK		
Port Discharge, Aft: OK	whelk, sand $		
Stbd Discharge, Fore: OK	OK		
Stbd Discharge, Aft: OK	stone faced corals, carely, sand $		
Port Overflow: OK	OK		
Stbd Overflow: OK	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Harold's Birthday!

Date: 10/25/98

Load # 45 46 Times: Start 0527 0724 End 0717 1000 Dump 0726 1005

Location(lat/long) Sta 30+00 – 60+00 Tide out

Weather Partly cloudy, winds E at 15-20 kts, seas 1'-3'

H_2O Surf Temp 75 Time 0725 Below Mid-Depth 76 Time 0726 C or D (circle one)

Are there incidents involving endangered or protected species? Yes ___ No ✓

Port Draghead:	0	RUN	Deflector: ok
Stbd Draghead:	RUN	RUN	Deflector: ok
Port Discharge, Fore:	0	0	
Port Discharge, Aft:	0	0	
Stbd Discharge, Fore:	0	0	
Stbd Discharge, Aft:	0	shell	
Port Overflow:	0	0	
Stbd Overflow:	0	0	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/25/98

Load # 47 48 Times: Start 1214 (1015) End 1407 (1203) Dump 1410 (1205)

Location(lat/long) STG 30400 - 60400 Tide 0.1

Weather Mostly clear; winds E-NE 20 knots SLGS 1-3'

H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead: Rope, whelks	OK	Deflector: OK	OK
Stbd Draghead: Rope, whelks	whelk	Deflector: OK	OK
Port Discharge, Fore: Sand dollars	OK		
Port Discharge, Aft: whelks, wood, sand dollars	sand $, strom conch, wood		
Stbd Discharge, Fore: Ø	OK		
Stbd Discharge, Aft: whelks, wood, shell	sand $, stromulus, wood		
Port Overflow: Ø	OK		
Stbd Overflow: Ø	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Whitley

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date 10/25/98

Load # 49 / 50 Times: Start 1420 / 1618 End 1605 / 1803 Dump 1610 / 1808

Location(lat/long) 30+00 → 60+00 Tide 0.85 → FLOOD

Weather clear skies, winds ENE 10+015 kts, seas 1', 1-2' swell

H2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

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

Port Draghead: whelk	whelk	Deflector: OK	OK
Stbd Draghead: whelk, rope	whelk, rope	Deflector: OK	OK
Port Discharge, Fore: OK	OK		
Port Discharge, Aft: sand dll, shell	sand dll, fiberglass		
Stbd Discharge, Fore: OK	OK		
Stbd Discharge, Aft: OK	sand dll		
Port Overflow: OK	OK		
Stbd Overflow: OK	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project: Charlotte Harbor, Florida

Date: 10/25/98

Load # 51 52 Times: Start 1819 3449 End 2033 2306 Dump 2036 2314

Location(lat/long) sta. 30+00 — 60+00 Tide 1.44 → FLOOD

Weather clear to partly cloudy skies, winds E @ 15-20kts, seas 1', 1-2' swell

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

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

Port Draghead: rope, whelk	Rope	Deflector:	OK	OK
Stbd Draghead: junk, rope, whelk	Rope, whelk	Deflector:	OK	OK
Port Discharge, Fore: OK	Ø			
Port Discharge, Aft: sand, rock	Ø			
Stbd Discharge, Fore: OK	Ø			
Stbd Discharge, Aft: OK	wire mesh, whelk			
Port Overflow: OK	Ø			
Stbd Overflow: OK	Ø			

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Gulls	25+	2000 →	group of gulls gathered in prop wash

Observer(s) On Duty: Phyliky,

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 25 1261

Load # 53 54 Times: Start 2319 0059 End 0047 0307 Dump 0054 0315

Location(lat/long) Sta 30+00-60+00 Tide

Weather Partly cloudy, winds NE 20 knots, sea 1-3

H.O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: Rope	mechanical problem not able to be [illegible] out of the water	Deflector: OK	
Stbd Draghead: Rope, whelk		Deflector: OK	OK
Port Discharge, Fore: Ø	Ø		
Port Discharge, Aft: whelk	Ø		
Stbd Discharge, Fore: Ø	sand dollars		
Stbd Discharge, Aft: Ø	shell		
Port Overflow: Ø	Ø		
Stbd Overflow: Ø	Ø		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/26/98

Load # 55 56 Times: Start 0319 0540 End 0526 0830 Dump 0532 0832

Location(lat/long) Sta 30+00-60+00 Tide 1.6 → Ebb

Weather Partly cloudy, winds NE 20 knots, Sea 1-3

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead:	NA	NA	Deflector:
Stbd Draghead:	whelks, wood	rope, whelk	Deflector: OK / OK
Port Discharge, Fore:	0	ok	
Port Discharge, Aft:	wood, whelks	~~S~~ and $, shell	
Stbd Discharge, Fore:	Sand, dollars	OK	
Stbd Discharge, Aft:	wood, net, trash	bolt, shell	
Port Overflow:	0	ok	
Stbd Overflow:	0	OK	

Comments: * Note → Port draghead: ~~[illegible]~~ unable to read due to bad limit switch, draghead below surface of water @ highest point.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman / Phyllky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/26/98

Load # 57 58 Times: Start 0845 1100 End 1045 1304 Dump 1048 1308

Location(lat/long) Sta 30+00 — 60+00 Tide -2.71 → EBB

Weather partly cloudy skies, wind ENE @ 15-20 kts, seas 1'-3'

H2O Surf Temp 73°F Time 0850 Below Mid-Depth 75°F Time 0855 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead: NA *	* nothing hanging down	Deflector: OK	OK
Stbd Draghead: rope, junk, whelk	rope, junk, whelk	Deflector: OK	OK
Port Discharge, Fore: OK	OK		
Port Discharge, Aft: sand dollar	OK		
Stbd Discharge, Fore: flounder	OK		
Stbd Discharge, Aft: shell	OK		
Port Overflow: OK	OK		
Stbd Overflow: OK	OK		

Comments: * Port draghead still ~~out of service~~ unable to bring on deck

* can't see inside drag, but above surface of water

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky,

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/26/98

Load # 59 60 Times: Start 1318 End 1513 Dump 1520

Location(lat/long) Sta. 30+00 → 60+00 Tide

Weather partly cloudy, winds E @ 15-20 kts, seas 1'-3'

H_2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

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

Port Draghead: N/A Deflector: OK

Stbd Draghead: RIP Deflector: OK

Port Discharge, Fore: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø

Stbd Discharge, Aft: covered

Port Overflow: Ø

Stbd Overflow: Ø

Comments:

dredge goes to Tampa for fuel and water.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyllis Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/28/98

Load # 60 61 Times: Start 406 0541 End 0530 0751 Dump 0535 0754

Location(lat/long) STC 30+00 - 60+00 Tide 2.0

Weather Clear, winds NE 15 knots, seas 1-2'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V/K

Port Draghead:	Ø	ok	Deflector: OK / ok
Stbd Draghead:	Ø	Whelk	Deflector: OK / ok
Port Discharge, Fore:	Ø	worm tube	
Port Discharge, Aft:	whelks	sand $	
Stbd Discharge, Fore:	Ø	Ø	
Stbd Discharge, Aft:	Ø	wood, shell	
Port Overflow:	Ø	ok	
Stbd Overflow:	Ø	ok	

Comments: Dredge commences digging again at 4:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman/Phyllis

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/28/98

Load # 62 63 Times: Start 0802 1008 End 1000 1156 Dump 1003 1201

Location(lat/long) Sta 30+00 — 60+00 / Sta 75+00 - 95+00 Tide EBB

Weather clear, winds NE @ 15 kts, seas 1'-2'

H2O Surf Temp 75°F Time 1225 Below Mid-Depth 75°F Time 1225 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No X / X

Port Draghead:	OK	rag, shell	Deflector: OK / OK
Stbd Draghead:	Whelks	skate, whelk shell	Deflector: OK / OK
Port Discharge, Fore:	sand $	sand $, worm tubes	
Port Discharge, Aft:	sand $, stranulus, crab, whelk	trash, monofil, sponge, tunicate, worm tubes, blue crab, seacue's, stars, gorg, red algae, sand $	
Stbd Discharge, Fore:	OK	OK	
Stbd Discharge, Aft:	sand $ Portunas crab, whelk	whelk, sand $, shell, monofilament	
Port Overflow:	OK	OK	
Stbd Overflow:	OK	OK	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
1+	4+	0840	4+ moving ~~[illegible]~~ N-NW.

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10 / 28 / 98

Load # 64 65 Times: Start 1207 1331 End 1321 1502 Dump 1323 1507

Location(lat/long) ~~[illegible]~~ stat 30+00 — 60+00 Tide LOW → FLOOD

Weather clear, winds NE @ 15 kts, seas 1'-2'

~~H2O~~ Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

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

Port Draghead: OK	OK	Deflector: OK	OK
Stbd Draghead: shell	OK	Deflector: OK	OK
Port Discharge, Fore: OK	OK		
Port Discharge, Aft: shell, monofilament	Trash		
Stbd Discharge, Fore: OK	OK		
Stbd Discharge, Aft: trash, ~~monofilament~~, gorgonian, worm, BIG #	OK		
Port Overflow: OK	OK		
Stbd Overflow: OK	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky Westermon

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/28/98

Load # 66 67 Times: Start 1727 1512 End 1912 1714 Dump 1917 1720

Location(lat/long) sta 30+00-60+00 Tide c.g.

Weather clear, windslight airs sea calm

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓ ✓

Port Draghead:	Ø	Ø	Deflector: OK / OK
Stbd Draghead:	Ø	Ø	Deflector: OK / OK
Port Discharge, Fore:	Ø	Ø	
Port Discharge, Aft:	shell chalk	Ø	
Stbd Discharge, Fore:	Ø	shell	
Stbd Discharge, Aft:	Ø	Ø	
Port Overflow:	Ø	Ø	
Stbd Overflow:	Ø	Ø	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/28/98

Load # 68 69 Times: Start 1927 2121 End 2108 2307 Dump 2112 2311

Location(lat/long) Sta 30+00 - 60+00 Tide 1.8

Weather Partly cloudy, winds NE 10 knots seas 1

H2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: net	net	Deflector: OK	ok
Stbd Draghead: whelks, trash	~~trash~~, shell	Deflector: OK	OK
Port Discharge, Fore: sandalous, trash	OK		
Port Discharge, Aft: Ø	trash, gorgonian		
Stbd Discharge, Fore: shell whelk	OK		
Stbd Discharge, Aft: Ø	OK		
Port Overflow: Ø	OK		
Stbd Overflow: Ø	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Westerman/Phyllis

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/~~29~~ 28 / 98

Load # 71 (70) Times: Start 0103 (2320) End 0236 (0051) Dump 0239 (0055)

Location(lat/long) Sta 30+00 → 60+00 Tide EBB

Weather clear skies, winds NE @ 15kts, seas 1'-2'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:	OK, net	Deflector:	OK, OK
Stbd Draghead:	OK, shell, wood	Deflector:	OK, OK
Port Discharge, Fore:	OK	OK	
Port Discharge, Aft:	OK	OK	
Stbd Discharge, Fore:	OK	OK	
Stbd Discharge, Aft:	OK, tile	flounder	
Port Overflow:	OK	OK	
Stbd Overflow:	OK	OK	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/29/98

scott

Load # 72 73 Times: Start ~~0248~~ 0431 End 0418 0617 Dump 0421 0622

Location(lat/long) Sta 30+00 → 60+00 Tide Flood

Weather clear skies, winds NE @ 15 kts, seas 1'-2'

H2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

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

Port Draghead: net	Rope	Deflector: OK	OK
Stbd Draghead: wood	whelk	Deflector: OK	OK
Port Discharge, Fore: OK	Ø		
Port Discharge, Aft: sand $, metal, whelk	shame face - crab, whelk		
Stbd Discharge, Fore: OK	flound, blue crab		
Stbd Discharge, Aft: libinia, sand $	Blue crab, shell		
Port Overflow: OK	OK		
Stbd Overflow: OK	OK		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/29/98

Load # 74 75 Times: Start 0800 0627 End 0923 0747 Dump 0928 0752

Location(lat/long) sta 30+00 + 60+00 Tide 2.1

Weather clear, winds NE 10 knots seas calm

H_2O Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Ø Deflector: OK

Stbd Draghead: whelk Deflector: OK

Port Discharge, Fore: Ø

Port Discharge, Aft: shell, wood

Stbd Discharge, Fore: flounder,

Stbd Discharge, Aft: shame face crabs

Port Overflow: Ø

Stbd Overflow: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/2998

Load # 76 77 Times: Start 0936 1102 End 0923 1227 Dump 0926 1235

Location(lat/long) Sta 30+00 - 60+00 Tide 1.6

Weather clear, winds NE 10 knots, seas calm

H2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Rope Deflector: O/C

Stbd Draghead: whalk Deflector: O/C

Port Discharge, Fore: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø

Stbd Discharge, Aft: Ø

Port Overflow: Ø

Stbd Overflow: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1212	Out

Observer(s) On Duty: [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/29/98

Load # 78 Times: Start 1244 1435 End 1422 1530 Dump 1425 1535

Location(lat/long) Sta 30+00-60+00 Tide 0.9

Weather mostly clear, winds NE 10 knots, Seas 1'

H_2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead: rope	Ø	Deflector: OK	OK
Stbd Draghead: shell	shell	Deflector: OK	OK
Port Discharge, Fore: OK	Ø		
Port Discharge, Aft: flounder, sponge, shell	sponge		
Stbd Discharge, Fore: OK	Ø		
Stbd Discharge, Aft: flounder, shell	Ø		
Port Overflow: OK, rope	Ø		
Stbd Overflow: OK	Ø		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman / Phyllis Kay

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/30/98

Load # 80 81 Times: Start 1311 0956 End 1946 2114 Dump 1951 2120

Location(lat/long) Sta 30+00 - 60+00 Tide 1.3

Weather clear, winds NE 10 knots Sea 1-2

H2O Surf Temp ___ Time ___ Below Mid-Depth ___ Time ___ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ___ No ✓ ✓

Port Draghead:	Ø	Ø	Deflector: OK / OK
Stbd Draghead:	Ø	Ø	Deflector: OK / OK
Port Discharge, Fore:	Ø	Ø	
Port Discharge, Aft:	Ø	Ø	
Stbd Discharge, Fore:	Ø	Ø	
Stbd Discharge, Aft:	Ø	shell	
Port Overflow:	Ø	Ø	
Stbd Overflow:	Ø	Ø	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1856	

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/31/98

Load # 82 83 Times: Start 0004 0126 End 0113 0247 Dump 0117 0251

Location(lat/long) Sta 30+00-60+00 Tide

Weather Clear, winds NE 10 knots Sea 1-2

H.O Surf Temp ____ Time ____ Below Mid-Depth ____ Time ____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	ø	ø	Deflector: ok	ok
Stbd Draghead:	ø	ø	Deflector: ok	ok
Port Discharge, Fore:	ø	ø		
Port Discharge, Aft:	ø	whilk		
Stbd Discharge, Fore:	ø	ø		
Stbd Discharge, Aft:	ø	ø		
Port Overflow:	ø	ø		
Stbd Overflow:	ø	ø		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: ERIC Waterman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10/31/98

Load # 84 85 Times: Start 0457 0700 End 0947 1145 Dump 0050 1154

Location(lat/long) stu 30+00 - 60+00 Tide 1.7

Weather clear, winds NE 10 knots sea 1-2

Outlet Temp 76 Time 1043 Below Mid-Depth 17 Time 1040 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No W

Port Draghead:	Ø	Ø
Stbd Draghead:	Ø	Ø
Port Discharge, Fore:	Ø	Ø
Port Discharge, Aft:	Ø	Ø
Stbd Discharge, Fore:	Ø	Ø
Stbd Discharge, Aft:	Ø	Ø
Port Overflow:	Ø	Ø
Stbd Overflow:	Ø	Rope

Deflector: OK / OK

Deflector: OK / OK

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 10,31,94

Load # 6 7 Times: Start 1205 1042 End 1336 1825 Dump 1399 1830

Location(lat/long) Sta 30+00 - 60+00 Tide 1.6

Weather clear, winds light airs seas calm

[illegible] Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No VY

Port Draghead:	0	0
Stbd Draghead:	0	0
Port Discharge, Fore:	0	0
Port Discharge, Aft:	0	shell
Stbd Discharge, Fore:	0	0
Stbd Discharge, Aft:	0	Coquina
Port Overflow:	0	0
Stbd Overflow:	0	0

Deflector: OK | OK

Deflector: OK | OK

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Erik Westerman

147-328-376

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date 10/31/98

Load # 88 89 Times: Start 18381 2240 End 2234 0005 Dump 2240 0012

Location(lat/long) Sta 10-31-98 Tide Flood

Weather Clear, winds NW 5-8 knots seas 1-2

H2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: Ø

Stbd Draghead: Ø

Port Discharge, Fore: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Rock

Stbd Discharge, Aft: shell

Port Overflow: Ø

Stbd Overflow: Ø

Deflector: Ok / Ok

Deflector: Ok / Ok

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: [illegible] Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/1/98

Load # 90 91 Times; Start 0147 0344 End 0325 0517 Dump 0336 0524

Location(lat/long) STA 30+00 60+00 Tide

Weather clear, winds light airs seas 1-2

H2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

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

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø

Stbd Discharge, Aft: Shell

Port Overflow: Ø

Stbd Overflow: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/1/98

[illegible] 7 / 3 Times: Start 0727 0532 End 0908 0718 Dump 0912 0722

[illegible] (long) sta 30+00 60+00 Tide 1.2

clear, winds calm, seas calm

[illegible] Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

[illegible] incidents involving endangered or protected species? Yes ____ No ✓

[illegible]	O	whelk Deflector: OC
[illegible]	O	O Deflector: OC
[illegible] Fore:	O	O
[illegible] Aft:	O	O
[illegible] Fore:	sand dollar, ROC	sand dollar
[illegible] Aft:	O	O
[illegible]	O	O
[illegible]	O	O

Bridge Watch Summary

[illegible]	# of Animals	Time	Location & Comments

[illegible] On Duty: ERIC Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/1/98

Load # 94 / 5 Times: Start 0916 1108 End 1058 1230 Dump 1103 1236

Location(lat/long) Sta 30+00-60+00 Tide 117

Weather clear, winds light airs seas calm

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	0	0	Deflector: OK
Stbd Draghead:	whelk	whelk	Deflector: OK
Port Discharge, Fore:	0	0	
Port Discharge, Aft:	0	0	
Stbd Discharge, Fore:	0	0	
Stbd Discharge, Aft:	0	0	
Port Overflow:	0	0	
Stbd Overflow:	0	0	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westermor

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/1/98

Load: 76 / 77 Times: Start 1248 1502 End 1450 1639 Dump 1456 1643

Location (lat/long) Sta 30+00 - 60+00 Tide 1.6

Weather clear, winds calm, seas calm

Air Temp 78 Time 1248 Below Mid-Depth 78 Time 1245 C or F (circle one)

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

Port Draghead:	Ø	Ø	Deflector:	OK
Stbd Draghead:	Ø	Ø	Deflector:	OK
Port Discharge, Fore:	Ø	Ø		
Port Discharge, Aft:	Ø	electric ray, flounder		
Stbd Discharge, Fore:	flounder	Ø		
Stbd Discharge, Aft:	Ø	Ø		
Port Overflow:	Ø	Ø		
Stbd Overflow:	Blue crab	Ø		

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
14	9	1630	In cut, newborn calf

Observer(s) On Duty: Westerman / PETE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11, 1, 98

Times: Start 1652 858 End 1843 2047 Dump 1845-1849 2049-2052

Location (lat/long) Sta 30+00 60+00 Tide 1.73

Clear, calm winds and seas

Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Were there incidents involving endangered or protected species? Yes ____ No X

Port Doghead: Ø	Ø	Deflector: OK	OK
Stbd Doghead: Ø		Deflector: OK	OK
Port Discharge, Fore: Ø			
Port Discharge, Aft: Ø			
Stbd Discharge, Fore: Ø			
Stbd Discharge, Aft: Ø			
Port Overflow: Ø			
Stbd Overflow: Ø			

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge RN ~~Weeks~~ Merminton, Charlotte, FL
USACE, Jacksonville District

Date: 11/01/98

Load # 100 101 Times: Start 2057 2247 End 2278 000250 Dump 2248 0029

Location(lat/long) Sta 30+00 - 60+00 Tide 2.2

Weather clear, winds calm, sea calm

High Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:	0	0	Deflector: ok / ok
Stbd Draghead:	0	0	Deflector: ok / ok
Port Discharge, Fore:	0	0	
Port Discharge, Mid:	0	0	
Port Discharge, Aft:	0	0	
Stbd Discharge, Fore:	0	0	
Stbd Discharge, Mid:	0	0	
Stbd Discharge, Aft:	0	0	
Port Overflow:	0	0	
Stbd Overflow:	0	0	

Overboard Discharge, Port: 0 0 Stbd: 0 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge ~~RN Weeks~~ Algonquin, Charlotte, FL
USACE, Jacksonville District

Date: 1/12/98

Load # 102 / 103 Times: Start 0002 / 0223 End 0200 / 0348 Dump 0208 / 0355

Location(lat/long) Sta 30+00 - 60+00 Tide

Weather Clear, winds calm, sea calm

H2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

Any there incidents involving endangered or protected species? Yes No ✓

Port Draghead:	Not	Not	Deflector: OK / OK
Stbd Draghead:	d	Not	Deflector: OK / OK
Port Discharge, Fore:	d	d	
Port Discharge, Mid:	d	d	
Port Discharge, Aft:	d	d	
Stbd Discharge, Fore:	d	d	
Stbd Discharge, Mid:	shell	d	
Stbd Discharge, Aft:	shell	d	
Port Overflow:	d	d	
Stbd Overflow:	d	d	
Overboard Discharge, Port:	d	d	Stbd: d / d

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/2/98

Load # 04 / 05 Times: Start 0403 / 0546 End 0533 / 0736 Dump 0541 / 0738-0741

Location(lat/long) Sta 30+00-60+00 Tide .7 / 1.32

Weather clear, winds calm sea calm

Fl@Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No V

Port Draghead: Net | Net Deflector: ok | ok

Stbd Draghead: Net, shell | Ø Deflector: ok | ok

Port Discharge, Fore: Ø

Port Discharge, Aft: Shell

Stbd Discharge, Fore: Ø

Stbd Discharge, Aft: Flounder, shell, fish

Port Overflow: Ø

Stbd Overflow: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / Rite

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/02/98

Load # 06 107 Times: Start 0748 0943 End 0929 1124 Dump 0932-0936 1127-1130

Location (lat/long) Sta 30+00 - 60+00 Tide 1.88

Weather Clear, wind and seas calm

H.O. Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead: Ø | Ø Deflector: OK | OK

Stbd Draghead: Ø | Deflector: OK | OK

Port Discharge, Fore: Ø

Port Discharge, Aft:

Stbd Discharge, Fore:

Stbd Discharge, Aft:

Port Overflow:

Stbd Overflow:

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/2/98

Load # 108 109 Times: Start 1140 1314 End 1300 1432 Dump 1303-1306 1439

Location (lat/long) Sta 30+00 - 60+00 Tide

Weather Clear, wind & seas calm

H.O. Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No W

Port Draghead:	Ø	Not	Deflector: OK / OK
Stbd Draghead:	Ø	Ø	Deflector: OK / OK
Port Discharge, Fore:	↓	Ø	
Port Discharge, Aft:	↓	Shell	
Stbd Discharge, Fore:	↓	Ø	
Stbd Discharge, Aft:	↓	Rock	
Port Overflow:	blue crab	Ø	
Stbd Overflow:	Ø	Ø	

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete / Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11/2/98

1446 1556 1603

Load # 1 Times: Start 1610 End 1730 Dump 1758

Location (lat/long) STA 30+00 - 60+00 Tide Ebb

Weather Partly cloudy, winds SES-10 knots Sea 1-2

H.O. Surf Temp 77 Time _____ Below Mid-Depth 77 Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	Net	Net	Deflector: OK	OK
Stbd Draghead:	Ø	Ø	Deflector: OK	OK
Port Discharge, Fore:	Ø	Ø		
Port Discharge, Aft:	Ø	Shell		
Stbd Discharge, Fore:	Ø	Ø		
Stbd Discharge, Aft:	Ø	Ø		
Port Overflow:	Ø	Ø		
Stbd Overflow:	Ø	Ø		

Comments: dredge stops digging for pump repairs 1800

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau

Project Charlotte Harbor, Florida

Date: 11, 2, 98

Load # 12 / 13 Times: Start 1936 / 2134 End 2120 / 2316 Dump 2122-2125 / 2322-2325

Location (lat/long) Sta 30+00-60+00 Tide 1.7

Weather Partly cloudy, winds light airs Seas 1-2

H.O. Site/Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead: Ø | Ø Deflector: OK | OK

Stbd Draghead: Ø | Deflector: OK | OK

Port Discharge, Fore: Ø

Port Discharge, Aft: Whelk

Stbd Discharge, Fore: Ø | sand dollar

Stbd Discharge, Aft: Trash

Port Overflow: Ø

Stbd Overflow: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westermon, Pete

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~R[illegible]~~ MERMENTAU, Charlotte, FL
USACE, Jacksonville District

Date: 11 / 3 / 98

Load # 114 115 Times: Start 2350 0116 End 0058 0229 Dump 0102-0104 0233-0236

Location(lat/long) Sta 30+00-60+00 Tide 1.40

Weather Cloudy, calm winds & seas

FLO Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No____

Port Draghead: Ø Ø Deflector: OK

Stbd Draghead: Ø Deflector: OK

Port Discharge, Fore: Ø

Port Discharge, Mid:

Port Discharge, Aft:

Stbd Discharge, Fore:

Stbd Discharge, Mid:

Stbd Discharge, Aft:

Port Overflow:

Stbd Overflow:

Overboard Discharge, Port: Stbd:

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ INCREMENTAL, Charlotte, FL
USACE, Jacksonville District

Date: 11/3/98

Load # 116 117 Times: Start 0427 (0246) End 0600 (0359) Dump 0605 (0404-0406)

Location(lat/long) Sta 30+00 - 60+00 Tide .80

Weather Pt. Cloudy calm winds & seas

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Were there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	Ø	Ø
Stbd Draghead:	Ø	Ø
Port Discharge, Fore:	↓	Ø
Port Discharge, Mid:		Ø
Port Discharge, Aft:	shell	Ø
Stbd Discharge, Fore:	Ø	Ø
Stbd Discharge, Mid:	Ø	Ø
Stbd Discharge, Aft:	rope	Ø
Port Overflow:	Ø	Ø
Stbd Overflow:	Ø	Ø

Deflector: ok / ok

Deflector: ok / ok

Overboard Discharge, Port: Ø Stbd: Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete / watermen

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge RN ~~Weeks~~ Merrimack, Charlotte, FL
USACE, Jacksonville District

Date: 11/3/98

Load # 118 119 Times: Start 0610 0730 End 0727 0913 Dump 0732 921

Location(lat/long) sta 30+00-60+00 Tide .9

Weather Partly cloudy, winds SE 10 knots Sea 1-2

H@ Surf Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓✓

Port Draghead:	Ø	Ø	Deflector:	OK / OK
Stbd Draghead:	Ø	Trash	Deflector:	OK / OK
Port Discharge, Fore:	Ø	Ø		
Port Discharge, Mid:	Ø	Ø		
Port Discharge, Aft:	Sand dollar	Ø		
Stbd Discharge, Fore:	Ø	Ø		
Stbd Discharge, Mid:	Ø	Ø		
Stbd Discharge, Aft:	Not	Not		
Port Overflow:	Ø	Ø		
Stbd Overflow:	Ø	Ø		

Overboard Discharge, Port: Ø / Ø Stbd: Ø / Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/3/98

Load # 120 121 Times: Start 0927 1114 End 1102 1253 Dump 1108 1302

Location(lat/long) Stg 30+00 60+00 Tide 1.5

Weather cloudy, winds SE 10 knots, seas 1 2

H/O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Was there incidents involving endangered or protected species? Yes ____ No ✓ ✓

Port Draghead:	0	0	Deflector: OK / OK
Stbd Draghead:	0	0	Deflector: OK / OK
Port Discharge, Fore:	0	0	
Port Discharge, Mid:	0	0	
Port Discharge, Aft:	0	0	
Stbd Discharge, Fore:	0	0	
Stbd Discharge, Mid:	0	0	
Stbd Discharge, Aft:	0	flounder	
Port Overflow:	0	0	
Stbd Overflow:	0	0	

Overboard Discharge, Port: 0 / 0 Stbd: 0 / 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MERMENTAU, Charlotte, FL

USACE, Jacksonville District

Date: 11/3/98

Load # 122/123 Times: Start 1536 (1312) End 1706 (1520) Dump 1711-1714 (1525-1528)

Location(lat/long) Sta 30+00-60+00 Tide 2.2

Weather Cloudy, winds SE 10-15 knots, seas 1-2

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead: Ø | Ø Deflector: OK | OK

Stbd Draghead: rope Deflector: OK | OK

Port Discharge, Fore: Ø

Port Discharge, Mid:

Port Discharge, Aft: shell

Stbd Discharge, Fore:

Stbd Discharge, Mid:

Stbd Discharge, Aft:

Port Overflow:

Stbd Overflow:

Overboard Discharge, Port: Ø | Ø Stbd: Ø | Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / Pete

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MERMENTAU, Charlotte, FL

USACE, Jacksonville District

Date: 11/3/98

Load # 124 125 Times: Start 1721 1916 End 1906 2059 Dump 1908-1911 2101-2103

Location(lat/long) Sta 30+00 - 60+00 Tide 2.08

Weather Pt Cloudy S wind 5-10 kts seas lt chop

Water Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Were there incidents involving endangered or protected species? Yes _____ No _____

Port Draghead: Ø | Ø Deflector: OK | OK

Stbd Draghead: Deflector: OK | OK

Port Discharge, Fore:

Port Discharge, Mid:

Port Discharge, Aft:

Stbd Discharge, Fore:

Stbd Discharge, Mid:

Stbd Discharge, Aft:

Port Overflow:

Stbd Overflow:

Overboard Discharge, Port: _____ Stbd: Ø | Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/3/98

Load # 126 127 Times: Start 2109 2303 End 2251 0054 Dump 2255 0102

Location(lat/long) Sta 30+00 - 60+00 Tide 2.1

Weather cloudy, SE 10-15 knots, Sea 1-2

Surf Temp 77 Time 2250 Below Mid-Depth 77 Time 2251 C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	Ø	shell	Deflector: OK / OK
Stbd Draghead:	Ø	Rope	Deflector: OK / OK
Port Discharge, Fore:	Ø	Ø	
Port Discharge, Mid:	Ø	Ø	
Port Discharge, Aft:	Trash	shell	
Stbd Discharge, Fore:	Ø	Ø	
Stbd Discharge, Mid:	Ø	Ø	
Stbd Discharge, Aft:	Ø	Rock	
Port Overflow:	Ø	Ø	
Stbd Overflow:	Ø	Ø	

Overboard Discharge, Port: Ø / Ø Stbd: Ø / Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/4/98

Load # 128 129 Times: Start 0113 0336 End 0318 0611 Dump 0325 1951

Location(lat/long) Sta 30+00-60+00 Tide 2 ft

Weather cloudy, winds SE 10 knots Sea 1-2

LO Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	Ø	Ø	Deflector: OK
Stbd Draghead:	Rope	rope	Deflector: OK
Port Discharge, Fore:	Ø	Ø	
Port Discharge, Mid:	Ø	Ø	
Port Discharge, Aft:	Trash	coquina stone	
Stbd Discharge, Fore:	Ø	Ø	
Stbd Discharge, Mid:	Ø		
Stbd Discharge, Aft:	whelk trash		
Port Overflow:	Ø		
Stbd Overflow:	Ø		
Overboard Discharge, Port:	Ø	Stbd: Ø	Ø

Comments: #129 To booster for pump-out

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / PETE

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 1/4/98

Load # 130 / 131 Times: Start 1722 / 1546 End 1904 / 1711 Dump 1710 / 1717

Location(lat/long) STA 30+00 60+00 Tide 1.1

Weather cloudy rain, winds East, 20 knots sea 1-3

H2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:	shell	0
Stbd Draghead:	shell	shell
Port Discharge, Fore:	0	0
Port Discharge, Mid:	0	0
Port Discharge, Aft:	shell	0
Stbd Discharge, Fore:	0	0
Stbd Discharge, Mid:	0	0
Stbd Discharge, Aft:	shell	0
Port Overflow:	0	0
Stbd Overflow:	0	0
Overboard Discharge, Port:	0	0

Deflector: OK / OK

Deflector: OK / OK

Stbd: 0 / 0

Comments: Dumping

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Eric Westermeyer

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/4/98

Load # 132 133 Times: Start 1916 2109 End 2054 2242 Dump 2100 2245-2248

Location(lat/long) Sta 30+00-60+00 Tide 1.2

Weather Cloudy, rain winds E 10 20 knot Sec 2-3

Surf Temp 76 Time 2000 Below Mid-Depth 76 Time 2000 C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead: Ø Deflector: OK

Stbd Draghead: Deflector: OK

Port Discharge, Fore: Ø

Port Discharge, Mid: Ø

Port Discharge, Aft: Ø

Stbd Discharge, Fore: Ø

Stbd Discharge, Mid: Ø

Stbd Discharge, Aft: Whelk

Port Overflow: Ø

Stbd Overflow: Ø

Overboard Discharge, Port: Ø Stbd: Ø 1 Ø

Comments: winds turned to the North
As "Mitch" approaches winds accelerate to 40 kts (Load 133)

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: ERIC Westerman / SJP

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MERMENTAU, Charlotte, FL
USACE, Jacksonville District

Date: 11 / 05 / 98

Load # 134 / 135 Times: Start 1100 / 0049 End 0019 / 0201 Dump 0022-0027 / 0204-0208

Location(lat/long) Sta 30+00-60+00 Tide 2.19

Weather Rain wind NE 20-30kts seas 5-8 ft.

H2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead:	Ø	Ø
Stbd Draghead:		
Port Discharge, Fore:		
Port Discharge, Mid:		Shell
Port Discharge, Aft:		Ø
Stbd Discharge, Fore:		
Stbd Discharge, Mid:		
Stbd Discharge, Aft:		
Port Overflow:		
Stbd Overflow:		

Deflector: OK / OK

Deflector: OK / OK

Overboard Discharge, Port: _____ Stbd: Ø / Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MEFMENAU, Charlotte, FL
USACE, Jacksonville District

Date: 11/05/06/98

Load # 136 137 Times: Start 0223 0701 End 0340 0911 Dump 0344 0348

Location(lat/long) Sta 30+00-60+00 Tide 0.85

Weather Rain, NE winds 20-40 kts, seas 12-14 ft.

Surf Temp 72 Time 2345 Below Mid-Depth 72 Time 2756 C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	Ø	Deflector:	OK
Stbd Draghead:	rope	Deflector:	OK
Port Discharge, Fore:	Ø		
Port Discharge, Mid:	Ø		
Port Discharge, Aft:	shell, whelk, flounder, britte star, trash		
Stbd Discharge, Fore:	Ø		
Stbd Discharge, Mid:	Ø		
Stbd Discharge, Aft:	clearnose skate, shell, trash		
Port Overflow:	Ø		
Stbd Overflow:	Ø		
Overboard Discharge, Port:	Ø	Stbd:	Ø

Comments: Load #136 not inspected due to weather conditions. Tropical Storm "Mitch" passing through Dredge starts at 1355, to go out and did again, not able to dry yet, going back to anchor.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	1	0826	11/6
TT	2	0900	11/6

Observer(s) On Duty: Steve Pete / Westermay

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MERMENTAU, Charlotte, FL
USACE, Jacksonville District

Date: 11/6/98

Load # 138 139 Times: Start 2146 1447 End 2345 1700 Dump 0023-0322 1850

Location(lat/long) STC 30+00-60+00 Tide 1.0

Weather Partly cloudy, winds NW 15-20 knots sea 2-3

Surf Temp 72 Time 2025 Below Mid-Depth 72 Time 2226 or (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead: Ø	Ø	Deflector: OK
Stbd Draghead: Trash	Ø	Deflector: OK
Port Discharge, Fore: Ø	Ø	
Port Discharge, Mid: whelk	Ø	
Port Discharge, Aft: whelk	sea stars, shell, grass	
Stbd Discharge, Fore: Ø	Ø	
Stbd Discharge, Mid: Ø	Ø	
Stbd Discharge, Aft: Ø	shell, ray, trash	
Port Overflow: Ø	Ø	
Stbd Overflow: Ø	Ø	
Overboard Discharge, Port: Ø	Ø	Stbd: Ø Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	2	1410	#10

Observer(s) On Duty: Westerman / PETE

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MERMENTAU, Charlotte, FL
USACE, Jacksonville District

Date: 11/7/98

Load # 140 141 Times: Start 0414 1006 End 0619 1222 Dump 0745 1342-1535

Location(lat/long) Sta 30+00 - 60+00 Tide .50

Weather Clear, wind NE 10-20 kts seas 3-5 ft.

Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	whelk	0	Deflector: ok / ok
Stbd Draghead:	Rope	crab trap	Deflector: ok / ok
Port Discharge, Fore:	sand dollars	0	
Port Discharge, Mid:	0	shell	
Port Discharge, Aft:	shell	0	
Stbd Discharge, Fore:	0	0	
Stbd Discharge, Mid:	sand dollar, shell	0	
Stbd Discharge, Aft:	trash, shell	shell	
Port Overflow:	0	0	
Stbd Overflow:	0	0	
Overboard Discharge, Port:	0	0	Stbd: 0 / 0

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	0675	
Tt	3	1045	cut
Tt	11	1205	cut

Observer(s) On Duty: PETE / WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MERMENTAU, Charlotte, FL

USACE, Jacksonville District

Date: 11/7/98

d # 142 143 Times: Start 1645 2159 End 1857 0020 Dump 1942 0138

ation(lat/long) Sta 30+00 - 60+00 Tide 0.49

ther Clear, winds & seas calm

Surf.Temp 71 Time 0225 Below Mid-Depth 72 Time 0220 C or F (circle one)

there incidents involving endangered or protected species? Yes____ No X

t Draghead:	Ø	Deflector:	OK / OK
d Draghead:	Ø	Deflector:	OK / OK
t Discharge, Fore:	Ø		
t Discharge, Mid:	Ø		
t Discharge, Aft:	skate		
d Discharge, Fore:	Ø		
d Discharge, Mid:			
d Discharge, Aft:			
t Overflow:			
d Overflow:			
erboard Discharge, Port:		Stbd:	

mments:

Bridge Watch Summary

pecies	# of Animals	Time	Location & Comments
Ø			

bserver(s) On Duty: Steve Pete / ERIC WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/8/98

ad # 144 / 145 Times: Start 0403 / 1031 End 0650 / 1314 Dump 0752 / 1710

ation(lat/long) STA 30+00-60+00 Tide .9

ather Partly cloudy, winds NE15knots, Seas 1-3'

) Surf Temp 72 Time 1703 Below Mid-Depth 71 Time 1700 C or (F) (circle one)

e there incidents involving endangered or protected species? Yes____ No X

rt Draghead: Ø	Ø	Deflector: OK	OK
bd Draghead: rope, stingray	↓	Deflector: OK	OK
rt Discharge, Fore: Ø			
rt Discharge, Mid: Ø			
rt Discharge, Aft: old carapace bone	wood		
bd Discharge, Fore: Ø	Ø		
bd Discharge, Mid: Ø	Ø		
bd Discharge, Aft: old carapace bones	skate, wood		
rt Overflow: Ø	Ø		
bd Overflow: Ø	Ø		
verboard Discharge, Port: Ø	Ø	Stbd: Ø	Ø

omments: Remnants of old turtle skeleton

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	≥5	1115	in cut

Observer(s) On Duty: Westerman / Pete

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RW Weeks~~ Pilgrim / Charlotte, FL

USACE, Jacksonville District

Date: 11,8,98

d # 146 / 147 Times: Start 0123 (1926) End 0418 (2159) Dump 0640 (2300)

ation(lat/long) Sta 30+00-60+00 Tide 1.58

ather Partly cloudy, winds NE 15 knots, Sea 1-2

) Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

there incidents involving endangered or protected species? Yes____ No X

t Draghead:	Ø	Ø	Deflector: OK / OK
d Draghead:	Ø	Ø	Deflector: OK / OK
t Discharge, Fore:	Ø		
t Discharge, Mid:	1 sea star		
t Discharge, Aft:	Shell		
d Discharge, Fore:	Ø		
d Discharge, Mid:	Ø		
d Discharge, Aft:	Shell	Shell	
t Overflow:	Ø	Ø	
d Overflow:	Ø	Ø	
erboard Discharge, Port:	Ø	Ø	Stbd: Ø / Ø

omments:

Bridge Watch Summary

ipecies	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / Pate

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/9/98

148 0719 1019 1118

ad # 149 Times: Start 1331 End 1603 Dump 1653

cation(lat/long) Sta 30 Tgutou Tide Ebb

ather Clear, winds SE 10 knots, seas 1-2

D Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

e there incidents involving endangered or protected species? Yes____ No ✓

rt Draghead: Rope	Ø	Deflector: OK / OK
d Draghead: Clearnose skate, wire	↓	Deflector: OK OK
rt Discharge, Fore: Ø		
rt Discharge, Mid: Ø	flounder	
rt Discharge, Aft: Whelk	Ø	
bd Discharge, Fore: Ø		
bd Discharge, Mid: Ø		
bd Discharge, Aft: Trash		
rt Overflow: Ø		
bd Overflow: Ø		
verboard Discharge, Port: NA	↓	Stbd: NA 1 Ø

omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / Pete

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN ~~Weeks~~ Charlotte, FL
USACE, Jacksonville District

Date: 11/9/10/98

150 1853 2133 2221

d # 151 Times: Start 0025 End 0259 Dump 0354

ation(lat/long) Sta 30+00 - 60+00 Tide 1.43

ather Clear, E wind 10-15Ks seas 1-3 ft

) Surf Temp 70 Time 0417 Below Mid-Depth 71 Time 0420 C or (F) (circle one)

there incidents involving endangered or protected species? Yes____ No X

t Draghead:	Ø	Ø	Deflector: OK / OK
d Draghead:		Ø	Deflector: OK / OK
t Discharge, Fore:		a	
t Discharge, Mid:		a	
t Discharge, Aft:		a	
d Discharge, Fore:		Ø	
d Discharge, Mid:		a	
d Discharge, Aft:		a	
t Overflow:		Ø	
d Overflow:		a	
erboard Discharge, Port:		NA	Stbd: Ø / NA

mments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: PETE / WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN ~~Weeks,~~ Wormington Charlotte, FL
USACE, Jacksonville District

Date: 11/10/98

ad # 152 153 Times: Start 0538 1207 End 0909 1458 Dump 0941 1525

cation(lat/long) Sta 30+00 60+00 Tide 1.6

eather Skies clear winds ESE 10 knots Sea 1-2

O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

e there incidents involving endangered or protected species? Yes____ No X

rt Draghead: Ø	Ø	Deflector: OK	OK
bd Draghead: trash	whole	Deflector: OK	OK
rt Discharge, Fore: Ø	Ø		
rt Discharge, Mid: Ø	Ø		
rt Discharge, Aft: trash, shells	shell		
bd Discharge, Fore: Ø	Ø		
bd Discharge, Mid: Ø	Ø		
bd Discharge, Aft: flounder	shell		
rt Overflow: Ø	Ø		
bd Overflow: Ø	Ø		
verboard Discharge, Port: Ø	NA	Stbd: Ø	NA

omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Pete

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN Weeks, Charlotte, FL
US CE, Jacksonville District

Date: 11/10-11 98
1739 2100 2130

d # 154 155 Times: Start 1141 End 0237 Dump 0319
ation(lat/long) Sta 30+00 60+00 Tide Flood
ther Clear, winds SE 10 knots 7 sec 1 2
Surf.Temp 69 Time 1707 Below Mid-Depth 71 Time 1708 C or F (circle one)

there incidents involving endangered or protected species? Yes____ No ✓

t Draghead:	Ø	Ø	Deflector:	OK / OK
d Draghead:	Ø	↓	Deflector:	OK / OK
t Discharge, Fore:	Ø	↓		
t Discharge, Mid:	Ø	↓		
t Discharge, Aft:	Ø	Shell		
d Discharge, Fore:	Ø	Ø		
d Discharge, Mid:	Ø	↓		
d Discharge, Aft:	Ø	↓		
rt Overflow:	Ø	↓		
d Overflow:	Ø	↓		
erboard Discharge, Port:	NA	↓	Stbd: NA	Ø

mments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman/Pete

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/11/98

156 0520 0817 0923

ad # 157 Times: Start [redacted] End 1517 Dump 1520-1523

cation(lat/long) SPG 30+00 - 60+00 Tide Ebb

eather Partly cloudy, winds SE 5-10 knots Sea 1-2

D Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

e there incidents involving endangered or protected species? Yes____ No V

rt Draghead:	Ø	Ø	Deflector:	OK
d Draghead:	Ø	Ø	Deflector:	OK
rt Discharge, Fore:	Ø			
rt Discharge, Mid:	Ø			
rt Discharge, Aft:	whilk			
d Discharge, Fore:	Ø			
d Discharge, Mid:	Ø			
d Discharge, Aft:	Ø			
rt Overflow:	Ø			
bd Overflow:	Ø			
verboard Discharge, Port:	NA	NA	Stbd: NA	NA

omments: winds died down.
set in starboard drag.
Standing by for repairs
Booster broken dig and
dump for now.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / Pete

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/11/98

Load# 158 / 159 Times: Start 1531 / 1742 End 1733 / 1930 Dump 1736-1739 / 1933-1937

Location(lat/long) Sta 30+00 - 60+00 Tide flooding

Weather clear calm winds, seas

H2O Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead:	Ø	Ø	Deflector: ok / ok
Stbd Draghead:	Ø		Deflector: ok / ok
Port Discharge, Fore:	Ø		
Port Discharge, Mid:	Flounder		
Port Discharge, Aft:	ray		
Stbd Discharge, Fore:	Ø		
Stbd Discharge, Mid:			
Stbd Discharge, Aft:			
Port Overflow:			
Stbd Overflow:			
Overboard Discharge, Port:			Stbd: Ø / Ø

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1700	@ Buoy 3A
Tt	3	1705	in cut

Observer(s) On Duty: Steve Pete

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN Weeks, Charlotte, FL
USACE, Jacksonville District

Date: 11/11/98

160 192212 2345 0044

Load # 161 Times: Start 0246 End 0551 Dump 0618-

Location(lat/long) Sta 30+00 - 60+00 Tide flooding

Weather Clear, calm seas & winds light airs

LO Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:	Ø	Ø	Deflector: OK / OK
Stbd Draghead:	whelk	Ø	Deflector: OK / OK
Port Discharge, Fore:	Ø	Ø	
Port Discharge, Mid:	sand dollar	Ø	
Port Discharge, Aft:	Ø	ray, shell	
Stbd Discharge, Fore:	Rock, shell	Ø	
Stbd Discharge, Mid:	Ø	Ø	
Stbd Discharge, Aft:	Rock, shell	shell, trash	
Port Overflow:	Ø	Ø	
Stbd Overflow:	Ø	Ø	
Overboard Discharge, Port:	NA	NA	Stbd: NA / NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Steve Pete / Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge ~~RN Weeks~~ MERMENTAU, Charlotte, FL
USACE, Jacksonville District

Date: 11/12/98

Load # 162 163 Times: Start 0838 1436 End 1154 1812 Dump 1230 1834

Location(lat/long) Sta 30+00 - 60+00 Tide ebb → low

Weather Clear, calm seas, light winds

H2O Surf Temp 70 Time 1905 Below Mid-Depth 71 Time 1900 C or F (circle one)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Port Draghead:	Ø	shell	Deflector: OK	OK
Stbd Draghead:	Ø	shell	Deflector: OK	OK
Port Discharge, Fore:	Ø	Ø		
Port Discharge, Mid:	Ø	Ø		
Port Discharge, Aft:	spider crab	Trash		
Stbd Discharge, Fore:	Ø	Ø		
Stbd Discharge, Mid:	↓	Ø		
Stbd Discharge, Aft:	↓	shell		
Port Overflow:	↓	Ø		
Stbd Overflow:	↓	Ø		
Overboard Discharge, Port:	NA	N	Stbd: NA	NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: PETE / Westerman

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge RN ~~Weeks~~ Mermentau, Charlotte, FL
USACE, Jacksonville District

Date: 11/13/98

Load # 164 165 Times: Start 0025 0712 End 0346 1145 Dump 0506 1135

Location(lat/long) Sta 3CFCC - 6CFCC Tide flooding

Weather Clear, wind N 5-10 kts, seas 1-2 ft.

TED Surf Temp _____ Time _____ Below Mid-Depth _____ Time _____ C or F (circle one)

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

Port Draghead:	Ø	Ø	Deflector: OK / OK
Stbd Draghead:		Whelk	Deflector: OK / ok
Port Discharge, Fore:		Ø	
Port Discharge, Mid:		flounder	
Port Discharge, Aft:		Trash	
Stbd Discharge, Fore:		Ø	
Stbd Discharge, Mid:		Ø	
Stbd Discharge, Aft:		shell	
Port Overflow:		Ø	
Stbd Overflow:		Ø	
Overboard Discharge, Port:		NA	Stbd: Ø / NA

Comments: Starboard draghead being taken off will only be digging with the Port draghead the rest of the day. TED being repaired

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Pete / Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/13/98

Load # 166 167 Times: Start ~~2276~~ 1335 End ~~0250~~ 1848 0325 Dump ~~0344~~ 1950

Location(lat/long) Sta 30+00 - 60+00 Tide Low - Flood

Weather Partly cloudy, winds E 10 knots, sea 1-2

H_2O Surf. Temp 75 Time 1240 Below Mid-Depth 74 Time 1245 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No XV

Port Draghead:	Ø	shell	Deflector: ok
Stbd Draghead:		NA	Deflector:
Port Discharge, Fore:	Ø	0	
Port Discharge, Mid:	Ø	flounder, sand dollars	
Port Discharge, Aft:	flounder	Shell, sea cucumbers	
Stbd Discharge, Fore:			
Stbd Discharge, Mid:		NA	
Stbd Discharge, Aft:			
Port Overflow:	Ø	Ø	
Stbd Overflow:			
Overboard Discharge, Port:	NA	N	Stbd: NA

Comments: Digging only with port side while repairs are made to stbd draghead.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1600	in cut
Tt	3	1700	in cut

Observer(s) On Duty: Pete/Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL

USACE, Jacksonville District

Date: 11/14/98

Load # 168 / 169 Times: Start 0541 / 1329 End 1044 / 1928 Dump 1130 / 2015

Location(lat/long) Stg 30+00 - 60+00 Tide Flood

Weather Clear, winds light gusts, seas 1-2

H_2O Surf Temp 74 Time 2010 Below Mid-Depth 75 Time 2005 C or (F) (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:	rope, tire	Deflector:	ok / OK
Stbd Draghead:	NA	Deflector:	NA / OK
Port Discharge, Fore:	Ø		
Port Discharge, Mid:	Ø		
Port Discharge, Aft:	Shell		
Stbd Discharge, Fore:	NA		
Stbd Discharge, Mid:			
Stbd Discharge, Aft:			
Port Overflow:	Ø		
Stbd Overflow:	NA		
Overboard Discharge, Port:	NA	Stbd:	NA

Comments: 1715 digging with two arms.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Westerman/Pate

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/14/98

Load # 170 / 171 Times: Start 2358 / 0526 End 0158 / 0857 Dump 0324 / 0940

Location(lat/long) Stg 30+00 - 60+00 Tide Flood

Weather clear, winds light airs seas calm

H_2O Surf. Temp 73 Time 1015 Below Mid-Depth 75 Time 1020 C or F (circle one)

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

Port Draghead:	Ø	shell	Deflector: OK / OK
Stbd Draghead:	Ø	Iron	Deflector: OK / OK
Port Discharge, Fore:	Ø	Ø	
Port Discharge, Mid:	Ø	Ø	
Port Discharge, Aft:	Shell	Shell	
Stbd Discharge, Fore:	Ø	Ø	
Stbd Discharge, Mid:	Ø	Ø	
Stbd Discharge, Aft:	Shell	Trash, sand dollars, whelk	
Port Overflow:	Ø	Ø	
Stbd Overflow:	Ø	Ø	
Overboard Discharge, Port:	Ø	NA	Stbd: Ø / NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø TT	1	0545	Out
FT	3	0650	Out

Observer(s) On Duty: Pete / Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/15/98

Load # 172 173 Times: Start 1153 2201 End 1954 0410 Dump 1954 0451

Location(lat/long) Sta 30+00 - 60+00 Tide Ebb

Weather Skies mostly clear, winds light airs, seal

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

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

Port Draghead:	N/A	NA	Deflector: ok
Stbd Draghead:	clearnose skate	Trash, shell	Deflector: ok / OK
Port Discharge, Fore:	N/A	NA	
Port Discharge, Mid:	↓	↓	
Port Discharge, Aft:	↓	↓	
Stbd Discharge, Fore:	Ø	Ø	
Stbd Discharge, Mid:	Ø	Ø	
Stbd Discharge, Aft:	Shell, trash	Trash, Pen shell, whelks, mud crab	
Port Overflow:	N/A	Ø	
Stbd Overflow:	Ø	Ø	
Overboard Discharge, Port:	NA	NA	Stbd: Ø / NA

Comments: Port draghead taken off.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Pete Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/16/98

Load # 174 / 175 Times: Start 1823 / 1811 End 2108 / 1512 Dump 2203 / 1602

Location(lat/long) STG 30+00 - 60+00 Tide Flood

Weather Partly cloudy, winds 5-10 knots, seas calm

H_2O Surf. Temp 74 Time 1645 Below Mid-Depth 77 Time 1640 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No ✓

Port Draghead:	Trash	Deflector:	OK / OK
Stbd Draghead:	Trash, shell	Deflector:	OK
Port Discharge, Fore:	0	0	
Port Discharge, Mid:	0	0	
Port Discharge, Aft:	Trash, shell	shell	
Stbd Discharge, Fore:	0	0	
Stbd Discharge, Mid:	0	0	
Stbd Discharge, Aft:	Rock, shell	Trash, shell	
Port Overflow:	0	0	
Stbd Overflow:	0	0	
Overboard Discharge, Port:	NA	NA	Stbd: NA / NA

Comments: Port dragarm put back on.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Pete/Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL

USACE, Jacksonville District

Date: 11/17/98

Load # 176 177 Times: Start 0620 (0016) End 0922 (0325) Dump 1017 (0425-0533)

Location(lat/long) Sta 30+00-60+00 Tide Ebb

Weather CLEAR, SEAS CALM LIGHT WINDS / clear, winds calm, sea calm

H_2O Surf.Temp 75 Time 1020 Below Mid-Depth 76 Time 1015 C or F (circle one)

Are there incidents involving endangered or protected species? Yes____ No X / N

Port Draghead:	OL	Ø	Deflector: OL	OK
Stbd Draghead:	SHELL	Ø	Deflector: OL	OK
Port Discharge, Fore:	OL	Ø		
Port Discharge, Mid:	OL	Ø		
Port Discharge, Aft:	TRASH, OCTOPUS, FLOUNDER SHELL	Shell		
Stbd Discharge, Fore:	OL	Ø		
Stbd Discharge, Mid:	OL	Ø		
Stbd Discharge, Aft:	TRASH, SHELL MAT, FLOUNDER	Shell		
Port Overflow:	Ø	Ø		
Stbd Overflow:	Ø	Ø		
Overboard Discharge, Port:	NA	NA	Stbd: NA	NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Judd Klement Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/17/98

178 1225 1515 0405-1728

oad # 179 Times: Start 1806 End 2042 Dump 2143

ocation(lat/long) 1 FL 30+00 60+00 Tide Flood

Veather Skies Partly cloudy, winds light airs, seas calm

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

.re there incidents involving endangered or protected species? Yes____ No X | X

ort Draghead:	SHELL	Ø	Deflector: OL | OL
tbd Draghead:	SHELL	Ø	Deflector: OL | OL
ort Discharge, Fore:	OL	~~TRASH~~ Ø	
ort Discharge, Mid:	OL	Ø	
ort Discharge, Aft:	2 FLOUNDER, SHELL	TRASH	
tbd Discharge, Fore:	OL	Ø	
tbd Discharge, Mid:	OL	Ø	
tbd Discharge, Aft:	SKATE, TRASH	TRASH	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	
)verboard Discharge, Port:	NA	Stbd: NA	

:omments: OCTOPUS IN HOPPER

Bridge Watch Summary

Species		# of Animals	Time	Location & Comments
Ø	Ø			

Observer(s) On Duty: Westerman/Klement

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

180 Date: 11/18/98 2359 0337 0619-0750

oad # 181 Times: Start 0828 End 1201 Dump 1305

ocation(lat/long) St 6 30+00 - 60+00 Tide [illegible]

'eather Partly cloudy, winds E 10 knots Sees 1

$_2$O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X / X

ort Draghead:	shell	Ø Deflector: OK / OK
tbd Draghead:	rebar, crab trap	Ø Deflector: OK / OK
ort Discharge, Fore:	Ø	Ø
ort Discharge, Mid:	Ø	Ø
ort Discharge, Aft:	trash, shell, sea stars	trash, shells
tbd Discharge, Fore:	Ø	Ø
tbd Discharge, Mid:	shell	Ø
tbd Discharge, Aft:	shell, sand dollars	trash, shells
ort Overflow:	Ø	Ø
tbd Overflow:	Ø	Ø

verboard Discharge, Port: NA Stbd: NA

omments: Pump computer locked up before LOAD 180
~~[illegible]~~ THE MAJORITY OF LOAD 181 dug
WITH PORT ARM ONLY

½ Load 181 pumped out, bardge
broke down. The dredge will
start digging and dumping again.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	~ 15	0830	Two pods SOCIALIZING

Observer(s) On Duty: Westerman / Klemmt

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

182
183

Date: 11 / 18 / 98 [11 F 19 - 98]

1637 1841 1850

oad # _____ Times: Start 1955 End 0054 Dump 0108 - 0309

ocation(lat/long) St 6 30 + 00 - 60+00 Tide High - Ebb

/eather CLEAR, WINDS WHS LOW 10 KTS, SEAS 1-3 FT

$_2$O Surf.Temp 76 Time 1520 Below Mid-Depth 77 Time 1525 C or F (circle one)

.re there incidents involving endangered or protected species? Yes____ No ✓ X

ort Draghead:	Ø	rope	Deflector: OK / OK
tbd Draghead:	Ø	rope, trash	Deflector: OK / OK
ort Discharge, Fore:	Ø	trash	
ort Discharge, Mid:	Ø	PART OF STINGRAY	
ort Discharge, Aft:	shell	SHELL, STARFISH, Horseshoe CRAB, trash	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	shell	SHELL, trash MAT	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	
)verboard Discharge, Port:	NA	NA	Stbd: NA / NA

:omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / Klement

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/19/98

184 0331 0532 0535

oad # 185 Times: Start 0341 End 0821 Dump 0825

ocation(lat/long) St 6 30+00 - 60+00 Tide Ebbing

/eather CLEAR, WINDS E 5-10KT, SEAS 1-3ft

$_2$O Surf. Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X/X

ort Draghead:	Ø	Ø	Deflector: OK OK
tbd Draghead:	Ø	Ø	Deflector: OK OK
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	Ø	
ort Discharge, Aft:	SHELL MAT, TRASH	Ø	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	PART OF OCTOPUS, SHELL	Ø	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	

Overboard Discharge, Port: NA Stbd: NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: J. Klement / Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/18/98

oad # 186 / 187 Times: Start 0837 / 1134 End 1505 / 1724 Dump 1609-1725 / 1127

ocation(lat/long) STA 30+00 - 60+00 Tide Ebb

/eather clear, winds calm, seas calm

$_2$O Surf.Temp ____ Time ____ Below Mid-Depth ____ Time ____ C or F (circle one)

re there incidents involving endangered or protected species? Yes ____ No ✓/X

ort Draghead:	0	Deflector: 0	0
tbd Draghead:	Trash	Deflector: 0	0
ort Discharge, Fore:	0	0	
ort Discharge, Mid:	0	0	
ort Discharge, Aft:	Shell	0	
tbd Discharge, Fore:	0	0	
tbd Discharge, Mid:	0	0	
tbd Discharge, Aft:	0	0	
ort Overflow:	0	0	
tbd Overflow:	0	0	
verboard Discharge, Port:	NA	NA	Stbd: NA / NA

omments: PORT TED'S CHAINS BROKE DURING LOAD 187. LOAD CUT SHORT

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
TT	5	1415	5 INDIV. RIDING THE BOW WAVE OF SMALL COMMERCIAL VESSEL

Observer(s) On Duty: Westerman / Klement

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11 / 19 / 98

ad # 188 189 Times: Start 1802 0000 End 2114 0214 Dump 2207 0309

ocation(lat/long) St. C 30+00 - 60+00 Tide Ebb

eather CLEAR, WINDS NNE 5-10 Kts, SEAS 1-3 ft

O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

re there incidents involving endangered or protected species? Yes_____ No X/N

ort Draghead:	Ø	TRASH	Deflector: OK / OK
bd Draghead:	Ø	Ø	Deflector: OK / OK
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	Ø	
ort Discharge, Aft:	TRASH	Ø	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	SIDECC, TRASH	Ø	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	

Overboard Discharge, Port: NA Stbd: NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: J. Klement [illegible]

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/20/98

0500 0810 0853-1016

.oad # 190 / 91 Times: Start 1058 End 1401 Dump 1515

.ocation(lat/long) Sta 30+00-60+00 Tide Low-Flood

Veather Partly cloudy, winds light airs, seas F-2

I_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

.re there incidents involving endangered or protected species? Yes____ No X

ort Draghead:	Ø	Ø	Deflector: OK / OK
tbd Draghead:	rope	Ø	Deflector: OK / OK
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	Ø	
ort Discharge, Aft:	trash, shell, starfish, horseshoe, sand $	sea stars, whelks, trash	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Hogchocker, sand dollars	
tbd Discharge, Aft:	trash, shell, horseshoe, sand $, starfish	sea stars, trash, shell	
'ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	
)verboard Discharge, Port:	NA	NA	Stbd: NA / NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Tt	2	1120	TRAVELLING OFF STERN OF SHIP
Ø			

Observer(s) On Duty: Westerman / Klement

1

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/20/98 - 11/21/98

1729 2015 2051

oad # 192 193 Times: Start 0000 End 0151 Dump 0533-0537

ocation(lat/long) Sta 30+00-60+00 Tide Low - Flood

/eather Partly cloudy, winds 10 knots, Seas 1-2

$_2$O Surf.Temp 77 Time 2053 Below Mid-Depth 76 Time 2055 C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No VX

ort Draghead:	Ø	Ø	Deflector: OK / OC
tbd Draghead:	whelk	Ø	Deflector: OK / OC
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	Ø	
ort Discharge, Aft:	Shell	trash, shell	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	sea star, shell, trash	trash, shell	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	

verboard Discharge, Port: NA NA Stbd: NA / NA

omments: PORT SIDE TED BOLT BROKE DURING LOAD 193 & BOOSTER PUMP DOWN UNTIL ~08:30.

TED FIXED BUT CHAINS NOT REATTACHED

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman / Klement

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/21/98

194 0542 0807 0851

oad # 195 Times: Start 1105 End 1401 Dump 1455-1624

ocation(lat/long) STA 6 30+00 - 60+00 Tide Ebb

/eather CLEAR, WINDS NE 5-10KTS, SEAS CALM

$_2$O Surf.Temp 24 Time 0445 Below Mid-Depth 25 Time 0445 C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No V/X

ort Draghead: Ø	Ø	Deflector: OK	OC
tbd Draghead: HOSC	rope, trash	Deflector: OK	OC
ort Discharge, Fore: Ø	Ø		
ort Discharge, Mid: Ø	Ø		
ort Discharge, Aft: Sand dollars shell	shell mat. speckeled crab, seastar, sand $		
tbd Discharge, Fore: Ø	Ø		
tbd Discharge, Mid: Ø	Ø		
tbd Discharge, Aft: Batfish, shame-faced crab	shell mat sand $ seastar		
ort Overflow: Ø	Ø		
tbd Overflow: Ø	Ø		
verboard Discharge, Port: NA	NA	Stbd: NA	NA

omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: KLEMENT | WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/21/98

oad # 196 / 197 Times: Start 1705 / 2240 End 22 / 0115 Dump 2000 / 0211 2039

ocation(lat/long) Sta. 30+00 - 60+00 Tide HIGH → Ebb

/eather CLEAR → SCAT CLOUDS, WINDS SW 5-10 KTS, SEAS 1-3ft

$_2$O Surf. Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X

ort Draghead:	Ø	Ø	Deflector: OK / OK
tbd Draghead:	Ø	Ø	Deflector: OK / OK
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	Ø	
ort Discharge, Aft:	Ø	Shell	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	Speckled crab	Ø	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	
Iverboard Discharge, Port:	NA	Stbd:	

omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: KLEMENT / WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 1/12/98

0417 0722 0820-0945

oad # 198 199 Times: Start 1021 End 1417 Dump 1518

ocation(lat/long) Sta 30+00-60+00 Tide Ebb → FLOOD

/eather cloudy, winds NE 15-20 knots, Sea 1-2

$_2$O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X

ort Draghead:	Ø	Rope	Deflector: OC / OK
tbd Draghead:	CONCH SHELL	Rock	Deflector: OC / OK
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	cucumber, sand dollars	
ort Discharge, Aft:	SHELL MAT.	Shell, rock	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	SHELL MAT.	Rock, shell	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	
verboard Discharge, Port:	NA	NA	Stbd: NA

omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Klement / Weterman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/22/98 – 11/23/98

200 1734 2037 2110

oad # 201 Times: Start 0000 End 0347 Dump 0343-0502

ocation(lat/long) STC 30+00 - 60+00 Tide Flood

/eather Cloudy, winds NE 10 knots, sea 1-2

$_2$O Surf.Temp 72 Time 2111 Below Mid-Depth 76 Time 2115 C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No ✓

ort Draghead: Shell	Ø	Deflector: OK / OK	
tbd Draghead: Shell	rope, wood	Deflector: OK / OK	
ort Discharge, Fore: Ø	Ø		
ort Discharge, Mid: Ø	Ø		
ort Discharge, Aft: Shell	Shell, wood, mash		
tbd Discharge, Fore: Ø	Ø		
tbd Discharge, Mid: Ø	Ø		
tbd Discharge, Aft: Shell	Shell, wood		
ort Overflow: Ø	Ø		
tbd Overflow: Ø	Ø		
)verboard Discharge, Port: NA		Stbd: NA	

:omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman/Klement

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/23/98

oad # 202 203 Times: Start 0541 0805 End 0755 1032 Dump 0758 1035

ocation(lat/long) St 6. 30+00 - 60+00 Tide Ebb → Flood

/eather CLEAR, winds E 10-20 kts, seas 1-3 ft

$_2$O Surf.Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No ✓

ort Draghead:	0	Deflector:	OK / OK
tbd Draghead:	0	Deflector:	OK
ort Discharge, Fore:	0		
ort Discharge, Mid:	mud crab		
ort Discharge, Aft:	0		
tbd Discharge, Fore:	0		
tbd Discharge, Mid:	whelk		
tbd Discharge, Aft:	0		
ort Overflow:	0		
tbd Overflow:	0		
verboard Discharge, Port:	NA	Stbd:	NA

omments: Load 202 pump-out
203 pump-out

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Pr	1	0915	cut
Lt	6	0915	cut

Observer(s) On Duty: Klement / Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/23/98

204 1042 1319 1321

oad # 205 Times: Start 1331 End 1550 Dump 1729-1845

ocation(lat/long) Stg. 30+00 - 60+00 Tide Flood

/eather Partly cloudy, winds E-NE 10 knots Seas 1-2

$_2$O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X

ort Draghead:	Ø	SHELL	Deflector: OK / OK
tbd Draghead:	Ø	Ø	Deflector: OK / OK
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	Ø	
ort Discharge, Aft:	Ø	SHELLS, CONCH, SEA PORK, TRASH	
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	Ø	SHELLS, CONCH, HERMIT CRABS, TRASH	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	

)verboard Discharge, Port: NA Stbd: N

Comments: 204 Dumped

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman/Klimont

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/22/98

2000 1930 2245 2335

oad # 207 Times: Start 0139 End 0441 Dump 0428-0448

ocation(lat/long) St 6 30+00 - 60+00 Tide Flood

/eather CLEAR, WINDS NE 5-10 KTS, SEAS 1-3 ft

$_2$O Surf.Temp 76 Time 2340 Below Mid-Depth 76 Time 2340 or (F) (circle one)

re there incidents involving endangered or protected species? Yes____ No ✓ | ✓

ort Draghead:	Ø	Deflector:	OK
tbd Draghead:	Ø	Deflector:	OK
ort Discharge, Fore:	Ø	Ø	
ort Discharge, Mid:	Ø	Ø	
ort Discharge, Aft:	Shell	Ø	
tbd Discharge, Fore:	Ø	Trash, Rock, shell	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	Ø	Trash, Rock, shell	
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	

)verboard Discharge, Port: N.A Stbd: N A

:omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Klement | Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/24/98

oad # 208 209 Times: Start 1420 0829 End 1750 1130 Dump 1827 1215

ocation(lat/long) Sta 30+00 60+00 Tide FLOOD

/eather CLEAR, WINDS NW - S-10 kts, seas 1-2 ft

$_2$O Surf.Temp > 6 Time 1823 Below Mid-Depth 75 Time 1825 C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X

ort Draghead:	rubber bumper	whelk
tbd Draghead:	Ø	Ø
ort Discharge, Fore:	Ø	old turtle bone
ort Discharge, Mid:	metal bar	Ø
ort Discharge, Aft:	worm, shell mat. trash	old turtle bone, trash, rock, sea star
tbd Discharge, Fore:	Ø	Ø
tbd Discharge, Mid:	Ø	Ø
tbd Discharge, Aft:	mud crab, shell mat. trash	shell rock
ort Overflow:	Ø	Ø
tbd Overflow:	Ø	Ø

Deflector: OC / 1/6

Deflector: OC 4/6

Overboard Discharge, Port: NA Stbd: NA

Comments: East 20 knots

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Klement / Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/24/98

oad # 210 211 Times: Start 2017 0345 End 0010 0903 Dump 0110-0235 0955

ocation(lat/long) Sta 30+00-60+00 Tide Low-Flood

/eather Partly cloudy, winds E 10 knots sea F-I

$_2$O Surf.Temp 76° Time 0130 Below Mid-Depth 76° Time 0130 C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X / V

ort Draghead:	Ø	NA	Deflector: OC	OK
tbd Draghead:	Ø		Deflector: OC	OK
ort Discharge, Fore:	Ø	NA		
ort Discharge, Mid:	Ø			
ort Discharge, Aft:	shell, trash, stnd$			
tbd Discharge, Fore:	Ø	Ø		
tbd Discharge, Mid:	shell	Ø		
tbd Discharge, Aft:	skate, stnd$, couch	shell, trash		
ort Overflow:	Ø	Ø		
tbd Overflow:	Ø	Ø		

)verboard Discharge, Port: NA Stbd: NA

Comments: THE PORT SIDE FLEX JOINT BLEW OUT DURING LOAD 211. DIGGING ONE AMMONCY.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Klement, Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/25/98

oad # 212 213 Times: Start 1152 2016 End 1609 2031 Dump 1810 2346

ocation(lat/long) Sta 30+00-60+00 Tide FLOOD

Weather Partly cloudy, winds E-NE 10 knots, seg 1-2

$_2$O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X

ort Draghead:	NA	NA	Deflector: NA
tbd Draghead:	trash, shell mat.	Ø	Deflector: OK
ort Discharge, Fore:	NA	NA	
ort Discharge, Mid:	↓	↓	
ort Discharge, Aft:	↓	↓	
tbd Discharge, Fore:	trash	Trash, shell	
tbd Discharge, Mid:	Ø	Ø	trash, horseshoe crab, whelk
tbd Discharge, Aft:	HERMIT crab, whelk, horseshoe crab, purple sea urchin, fresh, upper jaw of old turtle		
ort Overflow:	Ø	Ø	
tbd Overflow:	Ø	Ø	

Overboard Discharge, Port: NA Stbd: NA

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Klement Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/26/98

0128 0545 0622-0740

oad # 214 215 Times: Start 0832 End 1354 Dump 1501

ocation(lat/long) Sta 30+00 60+00 Tide FLOOD

/eather Partly Cloudy, Winds NE 0 knots Sea 1-2

$_2$O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X X

ort Draghead:	NA	Ø	Deflector: NA
:bd Draghead:	Rope	Ø	Deflector:
ort Discharge, Fore:	NA	NA	
ort Discharge, Mid:			
ort Discharge, Aft:			
tbd Discharge, Fore:	Ø	Ø	
tbd Discharge, Mid:	Ø	Ø	
tbd Discharge, Aft:	Trash, shell, sea stars	TRASH, SHELLS	
ort Overflow:	Ø	Ø	
tbd Overflow:		Ø	

verboard Discharge, Port: NA Stbd: NA

omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Klement/Westerman

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/27/98

216 2010 2319 0012-0150

oad # 217 Times: Start 0225 End 0554 Dump 0636

ocation(lat/long) St6 30+00 - 60+00 Tide SLACK → ebb

'eather CLEAR, SEAS 1-2 ft, N 5-10 KTS

$_2$O Surf.Temp 75 Time 0005 Below Mid-Depth 75 Time 0005 C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X/V

ort Draghead:	Ø	Ø	Deflector: OK	OK
tbd Draghead:	Ø	whelk	Deflector: OK	OK
ort Discharge, Fore:	Ø	Ø		
ort Discharge, Mid:	Ø	Ø		
ort Discharge, Aft:	-SHELLS	shell, trash		
tbd Discharge, Fore:	Ø	Ø		
tbd Discharge, Mid:	Ø	Ø		
tbd Discharge, Aft:	Ø	shell, wood, trash, speckled crab		
ort Overflow:	Ø	Ø		
tbd Overflow:	Ø	Ø		

verboard Discharge, Port: NA Stbd: NA

omments: Both dragarm working again

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Westerman/Klement

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/27/98

oad # 218 219 Times: Start 0425 1643 End 1344 2011 Dump 1430 2054

ocation(lat/long) St 6 30+00 - 60+00 Tide

/eather Clear, winds NE/10 knots, seas 1-3'

$_2$O Surf.Temp 76 Time Below Mid-Depth 75 Time C or F (circle one)

re there incidents involving endangered or protected species? Yes No UN

ort Draghead:	whelk	Deflector:	OK / OK
tbd Draghead:	NET	Deflector:	OK
ort Discharge, Fore:			
ort Discharge, Mid:	flounder		
ort Discharge, Aft:	shell/trash	whelk trash	
tbd Discharge, Fore:			
tbd Discharge, Mid:			
tbd Discharge, Aft:	shell/trash	trash, whelk	
ort Overflow:			
tbd Overflow:			

)verboard Discharge, Port: NA Stbd: NA

:omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

bserver(s) On Duty: WESTERMAN/Klement

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau Charlotte, FL
USACE, Jacksonville District

Date: 11/28/98

220 2310 0151 0244 -0416

oad # 221 Times: Start 0445 End 0627 Dump 0705

ocation(lat/long) St 6 30+00 - 60+00 Tide

'eather Partly Cloudy, winds NE 10/15 knots Sea 2-3

$_2$O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

re there incidents involving endangered or protected species? Yes____ No X X

ort Draghead:	Ø	Ø Deflector: OC
tbd Draghead:	Ø	Ø Deflector:
ort Discharge, Fore:	Ø	octopus
ort Discharge, Mid:	Ø	Ø
ort Discharge, Aft:	shell, trash, rock	shell, trash
tbd Discharge, Fore:	Ø	flanger
tbd Discharge, Mid:	shell	Ø
tbd Discharge, Aft:	shell, trash, rock	shell, trash
ort Overflow:	Ø	Ø
tbd Overflow:	Ø	Ø

)verboard Discharge, Port: NA Stbd: NA

:omments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			Ø

Observer(s) On Duty: Westerman/Klement

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