ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 7 / 30 / 00 Load Numbers 1-5

Area(s) Worked sections 1+2

Weather Conditions (incl. sea conditions) partly cloudy, WSW wind @10-15, seas = 2-3

Range of Water Temp., Surface 28°C Below Mid-Depth 28°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredge Stuyvesant arrived at the sea buoy shortly before noon to begin dredging operations. Endangered Species observers Meghan Piercy and Rick Woods boarded the vessel shortly after her (the ship's) arrival.

There were no incidents with or sightings of sea turtles. Dredged material consists of clay, mud and silt. No biota were retained by screening.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	6	17:25 / around dredging operations
Tursiops truncatus	10-15	19:50 / around dredging operations

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 7 / 31 / 00 Load Numbers 6-24

Area(s) Worked Stations 1+2

Weather Conditions (incl. sea conditions) fair in the morning, WSW@10-15, rain in the afternoon

Range of Water Temp., Surface 28°-29°C Below Mid-Depth 28°-29°C

Condition and Effectiveness of Screening see below

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Loads #12-14 left sampling cages completely jam packed with clay. Sampling became grossly impeded. Turtle observer Meghan Piercy tried to notify Rob Hauch of the USAED, but the message on his voice mail said he would be out of town until August 14th. After much discussion and serious consideration for turtle conservation, crew safety and dredge production, the project manager decided to open the doors of the screening. The professional opinion of the turtle observers concurred that this was best. Five sides of the cube are still covered. In the meantime 2 of 3 overflows are covered with screening and the third will arrive from New Orleans tomorrow. Then, overflow will have 100% coverage in this clay-packed situation.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	7	10:20 / "escorting" trawler

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 1 / 00 Load Numbers 25-47

Area(s) Worked Stations 1+2

Weather Conditions (incl. sea conditions) partly cloudy, wind shifted from W-NE, seas = 1-3, intermittent rain

Range of Water Temp., Surface 28.5°C Below Mid-Depth 28.5°C

Condition and Effectiveness of Screening see below

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

* There were no incidents or sightings of sea turtles.
Screening for the overflow arrived on the crew boat this morning and was promptly installed upon completion of load #32. Door to the inflow remains open due to the quantity of clay.
Dredged material consists of clay and mud.
Biota found on catwalk included: ribbonfish.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	3	11:40 / West end of section 2
Tursiops truncatus	4	12:20 / near dredging operations
Tursiops truncatus	3/4	14:45 " " "
Tursiops truncatus	5	16:45 " " "

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 2 / 00 Load Numbers 48-75

Area(s) Worked sections 1+2

Weather Conditions (incl. sea conditions) mostly cloudy, wind=NE shifting to SW@5-10, seas=1-2

Range of Water Temp., Surface 27° - 28°C Below Mid-Depth 27°-28°C

Condition and Effectiveness of Screening good condition. screening effectiveness compromised by door to inflow being open, but there's not much choice with so much clay. Overflow has 100% coverage.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightsings or incidents with sea turtles. Door to lander remained open, but overflow still has 100% coverage.
Dredged material consists of clay and mud.

Catwalks in hopper do a pretty good job of sampling biota! This included: seaweed, king mackeral, eel, black tipped shark

T.E.D's have retained seaweed and whelk egg cases.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	2	0810/1/4 mile N of section 2
Tursiops truncatus	15	0955/1/2 mile W of disposal area

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 3 / 00 Load Numbers 76 - 98

Area(s) Worked sections 2 + 3 (

Weather Conditions (incl. sea conditions) mild weather, light winds (ESE), clear + partly cloudy skies

Range of Water Temp., Surface 80°-83°F (27-28°C) Below Mid-Depth 80°-83°F (27-28°C)

Condition and Effectiveness of Screening Screens are in good condition. Overflow had 100% coverage as of start of load #87 through end of load #91 as a result of jammed clay. Door to mid hander jammed, dredge began using offhander in response.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.

The dredge began work in section 3 (110+00 - 060+00) upon commencemen of load #86. After finding no clay in the dragheads, the doors to the only inflow in operation were closed, once again providing 100% inflow coverage just prior to the start of load #87. (It should be noted that the captain and crew were completely amicable/agreeable to this sequest). The closed door lasted until the end of load #91, when large quantities of clay forced us to have to open the door again. Overflow has 100% screened coverage (continu

Biota found in screening included Blue crab, seaweed, ribbonfish, whelk egg cases, lightening whelk, sea squirt, wood, shrimp, eel

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	5	12:20 next to dredge enroute to disposal
Tursiops truncatus	2	12:25 @ bow of fishing vessel

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 4 / 00 Load Numbers 99-115

Area(s) Worked sections 1, 2, 3

Weather Conditions (incl. sea conditions) partly cloudy - clear sky, winds = SSE-NNE @ 7-10, seas = 1-3

Range of Water Temp., Surface 27°C - 29°C Below Mid-Depth 27° - 29°C

Condition and Effectiveness of Screening good. Same as previous day. doors to inflow remain open. Overflow continues to have 100% coverage.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.

Dredged material consists of clay and mud.

Biota retained by screening included: seaweed, ribbonfish, sea squirts, Whelk egg cases, king mackeral,

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	3	0840 / section 2
Tursiops truncatus	3	1220 / section 3
Tursiops truncatus	3	1520 / section 3

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel

DAILY REPORT

Date 8 / 5 / 00 Load Numbers 116 - 129

Area(s) Worked Sections 1, 2, 3 + 4

Weather Conditions (incl. sea conditions) warm, mostly clear skys, seas = 1-3,

Range of Water Temp., Surface 29°C (89°F) Below Mid-Depth 29°C (89°F

Condition and Effectiveness of Screening Good. Same as before. 100% overflow coverage, cage doors open on inflow

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.
Dredged material consists of clay and mud.
Biota retained is limited, and included: Sea weed, spider crab, ribbonfish and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

WEEKLY SUMMARY

Dates 7/30/00 - 8/5/00 Load Numbers 1-130

Range of Water Temp., Surface 27°-29°C Below Mid-Depth 27°-29°C

Areas Worked (lat/longs, stations) sections 1, 2, 3, 4

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

Dredge Stuyvesant arrived on 7/30 to begin maintenance dredging. On 7/31 (load #14) it became clear that large quantities of clay were going to perpetually jam up the boxes, grossly prohibiting sampling effectiveness drastically reducing productivity, and putting crew members in excessive danger. After unsuccessfully trying to reach Rob Hauck (USAED) all parties agreed the best course of action was to open cage doors to inflow and install screening for 100% overflow coverage. Inflow screens were subsequently closed for loads 87-91, long enough to assure that the clay situation remained problematic, and the cage doors were re-opened. Overflow screening remained in place for the duration. It should be noted that the captain and crew were very professional and amicable during all of this.

In addition to the clay, dredge material consists of mud. Biota, albeit minimal, was retained in screening and consisted of: seaweed, ribbonfish, king mackeral, eel, blue crab, spider crab, lightening whelk, whelk egg cases, sea squirt, shrimp, black-tipped shark and wood.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
7/30	Tursiops truncatus (Bottlenose dolphin) (16-21)	around dredging operations
7/31	Tursiops truncatus (Bottlenose dolphin (7)	"escorting" Brazos
8/1	Tursiops truncatus (Bottlenose dolphin (15)	around dredging operations
8/2	Tursiops truncatus (Bottlenose dolphin (17)	2=NE of Section 2, 15 @ disposal area
8/3	Tursiops truncatus (Bottlenose dolphin (7)	5=enroute to disposal, 2 in fishing ve
8/4	Tursiops truncatus (Bottlenose dolphin (9)	in sections 2+3
8/5	Tursiops truncatus (Bottlenose dolphin) (20-30)	3 in section 3, rest @ mouth of jetties

Observers on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 6 / 00 Load Numbers 131-151

Area(s) Worked sections 1, 2, 3

Weather Conditions (incl. sea conditions) clear/pc, SE-SW winds @ 5-10, seas = 1'-3'

Range of Water Temp., Surface 29°-30° C Below Mid-Depth 29°-30° C

Condition and Effectiveness of Screening Good. Same as before – inflow doors open, 100% overflow coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no incidents or sightings of sea turtles.

Dredged material consists of clay/mud.

Biota retained in screenings included: seaweed, ribbonfish, whelk egg cases, king mackerel and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Frigatebird	1 (imm)	0810 / enroute to disposal area
Tursiops truncatus	4	1520 / section 3
Tursiops truncatus	2	1800 / section 3

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 7 / 00 Load Numbers 152 - 170

Area(s) Worked sections: 1, 2, 3,

Weather Conditions (incl. sea conditions) clear - p/c, winds shifting from SW-NE @ 5-10, seas = 1-3

Range of Water Temp., Surface 29°F Below Mid-Depth 29°F

Condition and Effectiveness of Screening Good same as before - inflow doors open, 100% overflow coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.

Dredged material consists of clay and mud.

Biota retained by screening included: seaweed, ribbonfish, catfish and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	4	0730 / section 2

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 8 / 00 Load Numbers 171-187

Area(s) Worked sections 1, 2, 3

Weather Conditions (incl. sea conditions) _____

Range of Water Temp., Surface 89°F Below Mid-Depth 89°F

Condition and Effectiveness of Screening Good. Same as before; inflow doors are open and overflow has 100% coverage.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no incidents or sightings of sea turtles.

Dredged material consists of clay and mud.

Biota retained by screening included: seaweed, ribbonfish, whelk egg cases, skate egg cases, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty Meghan Percy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 9 / 00 Load Numbers 188-202

Area(s) Worked sections: 2, 3, 4

Weather Conditions (incl. sea conditions) E/SE winds @ 5-10, seas = 2-4, clear sky

Range of Water Temp., Surface 29°C Below Mid-Depth 29°C

Condition and Effectiveness of Screening Excellent

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no incidents or sightings of sea turtles.

Dredged material consisted of mud and clay.

Biota retained by screening included: seaweed, ribbonfish, whelk egg cases, catfish, mackeral, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	15-20	08:15 / ln section 3
Tursiops truncatus	5	15:15 / ln section 3
Tursiops truncatus	≈20	16:45-19:05 / ln section 3

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 10 / 00 Load Numbers 203-220

Area(s) Worked sections: 1, 2, 4

Weather Conditions (incl. sea conditions) winds = NE@5-10, seas = 1-3, clear sky

Range of Water Temp., Surface 29°C Below Mid-Depth 29°C

Condition and Effectiveness of Screening good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

A sub-adult male Loggerhead sea turtle (Caretta caretta) was picked up in load #207 at 05:30. The turtle was alive upon initial discovery, but had a large crack on the right side of its carapace. Within 1/2 hour, there were no signs of life. Although treated as if alive during transport to NMFS in Galveston, it was deemed dead on arrival. A necropsy was performed (within 11:00 hrs) by Andrea Cannon (assisted by Ann Kidwell + Meghan Piercy). It was determined that the turtle died of bleeding from a laceration of the liver. Damage was also sustained by the left lung. Contents of the digestive tract included: sargassum, plastics, barnacles, sea squirts and nylon rope. It should be noted that the captain and crew of the Stuyvesant, and the crewboat driver of the River Runner, were very helpful and professional in this situation.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Frigatebird	2	14:30 / Soaring 1/4 mi. E of dredge in section 1
Tursiops truncatus	4	16:30 / In Channel

Observer(s) on duty Meghan Piercy and Rick Wood

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 11 / 00 Load Numbers 221-238

Area(s) Worked Sections: 1, 2, 4

Weather Conditions (incl. sea conditions) wind = NE @ 5-10, seas = 1-3', clear sky

Range of Water Temp., Surface 29°C Below Mid-Depth 29°C

Condition and Effectiveness of Screening excellent. One loose stave on the port T.E.D. was tightened promptly after the captain was notified.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no incidents of sea turtles, nor sightings.

Dredged material consisted of clay and mud.

Biota retained by screenings included: seaweed (sargassum) spider crab, whelk egg cases, Blue crab, ribbonfish, wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	10	0830 / section 4
Brown Pelican	1	Load # 231 / flew into hopper (survived)

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 12 / 00 Load Numbers 239-254

Area(s) Worked section 4

Weather Conditions (incl. sea conditions) p/c - clear sky, winds = SE-E-NE @ 5-10, seas = 1-2

Range of Water Temp., Surface 30°C Below Mid-Depth 28°C

Condition and Effectiveness of Screening Good, some repairs to chains on T.E.D's have to be made periodically, but are done so promptly

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings of or incidents with turtles.

Dredged material in section 4 seems to be mostly mud w/ minimal clay.

Biota retained by screens included: catfish (lots of small ones), whelk egg cases, sargassum, skate, mackeral, blue crab, spider crab, ribbonfish, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	3	10:20 / @ mouth of jette
Tursiops truncatus	15-20	11:35 / ½ mi E of jettes, surrounding a sailboat
Tursiops truncatus	2	12:40 / section 4

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

WEEKLY SUMMARY

Dates 8/6/00 - 8/12/00 Load Numbers 131-254

Range of Water Temp., Surface 29°-30°C Below Mid-Depth 28°-29°C

Areas Worked (lat/longs, stations) sections 1,2,3,4

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There was one turtle take this week. A subadult male Loggerhead (Caretta caretta) was picked up on 8/10/2000 in load # 207@05:30. The turtle was alive upon discovery, but had a severe crack in its carapace, just to the right of its backbone. Although signs of life disappeared, the turtle was taken to the NMFS re-hab center in Galveston where it was pronounced dead. A necropsy was performed at 11:00 by Andrea Cannon, assisted by Ann Kidwell (also of NMFS) and turtle observer Meghan Piercy. It was determined that the turtle died of bleeding from a laceration of the liver. There was also damage to the left lung. A large quantity of blood clots were found amidst the intestines and internal organs. Contents of the digestive tract included: large quantities of sargassum, plastic, sea squirts, barnacles, and nylon rope. Some of the barnacles on the carapace were still alive during the necropsy. It should be noted that the Captain and crew of the Stuyvesant, and the crewboat driver (Mike) of the River Runner, were very helpful and professional during the entire incident. Dredged material in sections 1,2,3 was, before, mainly clay & some mud. Section 4 has yielded mostly mud & some clay. Biota retained screenings included: sargassum, ribbonfish, whelk egg cases, king mackeral, catfish, skates, skate egg cases, Blue crab, Spider crab, and wood.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
8/6	Frigatebird (1) / Tursiops truncatus (6)	in section 3
8/7	Tursiops truncatus (Bottlenose Dolphin (4)	in section 2
8/9	Tursiops truncatus (≈20)	in section 3
8/10	Frigatebird (2) / Tursiops truncatus	in & above section 4
8/11	Tursiops truncatus (10) / Brown Pelican (1 in hopper)	in section 4 / bird survived
8/12	Tursiops truncatus (20-25)	most around jetties, 2 in sec. 4
/		

Observers on duty Meghan Piercy and Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 13 / 00 Load Numbers 255 - 272

Area(s) Worked section: 4

Weather Conditions (incl. sea conditions) clear, wind = SE-NE @ 5-10, seas = 1-3

Range of Water Temp., Surface 30°C Below Mid-Depth 30°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no incidents with or sightings of sea turtles.

Dredged material in this section includes mud and clay.

Biota retained by screening included: sargassum, Blue Crab, sea squirts, whelk egg cases, catfish, ribbonfish, Red snapper, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	3	10:30 / end of jetties
Tursiops truncatus	5	15:30 / South of jetties
Tursiops truncatus	2	14:45 / by bow of trawler

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport, Entrance Channel, Texas

DAILY REPORT

Date 8 / 14 / 00 Load Numbers 273-282

Area(s) Worked Section: 4

Weather Conditions (incl. sea conditions) Winds = ENE@10 shifting to SE@15-20, seas picked up from 2-3 to 5

Range of Water Temp., Surface _____ Below Mid-Depth _____

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.

Upon completion of load # 277 @ 0900, Dredge Stuyvesant headed in to the Freeport City Docks to take on fuel. Dredging operations contunued at 17:43 with load # 278.

Biota retained in screening ~~about~~ included: catfish, ribbonfish, shrimp, Whelk egg cases, Blue crab, eel, Mackeral, Spider crab Sargassum and Wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	6	0650 / @ disposal area

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 15 / 00 Load Numbers 283-298

Area(s) Worked section 4

Weather Conditions (incl. sea conditions) ESE winds @ 10-20, p/c sky, seas = 3-6'

Range of Water Temp., Surface 30°C Below Mid-Depth 30°C

Condition and Effectiveness of Screening Good - same as usual - 100% overflow coverage while inflow screen doors are open

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

A sample of a Loggerhead sea turtle (Caretta caretta) was retained in load #295 at 19:30 hours. This included the posterior section of the animal only including both rear flippers intact, anal scutes of the plastron, pygal scutes of the carapace, and the tail. Species identification was based on flipper color being yellowish orange and pygal scutes being reddish brown. This was a fresh kill.

Dredged material consist of mud and clay

Biota retained in screening included: sargassum, catfish, whelk egg cases, ribbonfish, flatfish and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	5	0930 / section 4
Tursiops truncatus	30	1130 / @ the end of the jetties
Tursiops truncatus	3	1520 / section 4
Tursiops truncatus	6	1600 / riding bow wake of passing tanker

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 16 / 00 Load Numbers 299- 312.

Area(s) Worked section 4

Weather Conditions (incl. sea conditions) SSW winds @ 10-15, seas = 2-4, sky = clear - P/C

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no incidents with turtles today.

Dredged material continues to be mud and clay.

Biota retained by screening included: catfish, whelk egg cases, rubberfish, sargassum, and wood

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	20-25	10:00 / end of jetties
Tursiops truncatus	12	12:30 / end of jetties
Tursiops truncatus	2	15:20 / in wake of passing ship
Tursiops truncatus	3	15:45 / Section 4

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: 'STUYVESANT'

Project: FREEPORT ENTRANCE CHANNEL. TX.

DAILY REPORT

Date 8 / 17 / 00. Load Numbers 313 - 323

Area(s) Worked SECTION 4.

Weather Conditions (incl. sea conditions) SW - SNW. @ 10. SKIES P/C - CLEAR. SEAS. 2-3.

Range of Water Temp., Surface (31° - 87°F) Below Mid-Depth ✓

Condition and Effectiveness of Screening GOOD.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

THERE WERE NO INCIDENTS WITH TURTLES.

Material dredged - Clay + Mud.

Biota retained by screening included: SARGASSUM, CATFISH, WHELK EGGS. RIBBON FISH, MANTA-RAY, FEMALE BLUE CRAB.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
TURSIOPS TRUNCATUS	15.	07.30 End of jetties.
"	2.	12.30 Buoy - section 4.
"	3.	13.40. Bow of Tanker.
"	3	15.10 By jetties.
"	5-6.	17.30. In channel by dredge.
"	2	19.40. By jetties.

Observer(s) on duty MEGHAN REECY / RICK WOODS.

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport, Texas

DAILY REPORT

Date 8 / 18 / 00 Load Numbers 324-333

Area(s) Worked section 8 (A.K.A 4A) and 4

Weather Conditions (incl. sea conditions) Southerly (SE+SW) winds @5-10, clear sky, seas=1-2

Range of Water Temp., Surface 30.5°C Below Mid-Depth 30.5°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles today.

Dredged material consists of mud and some clay.

Biota Retained in screening included: Catfish, Whelk egg cases, skate, rubbonfish sargassum and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	Total sightings = 18-19,	never more than 4-5 @ a time / all afternoon, by jetties and riding bow wakes of passing ships

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 19 / 00 Load Numbers 334-347

Area(s) Worked section 8 (A.K.A. 4A)

Weather Conditions (incl. sea conditions) southerly winds @ 5-10, fair wnds, clear sky, seas = 1

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles today.

Dredged material consists of clay and mud.

Biota retained by screening included: eels, rays, whelk egg cases, calico crab, 40lb Red Drum, mackeral, ribbonfish, sargassum, catfish, whitefish, worms, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	7	10:40 / Section 4A(8)
Tursiops truncatus	9	13:30 / SE of jetties
Unidentified Sea Turtle	1	17:05 / dead, floating in section 4A(8). Probably a Leatherback based upon central ridge of carapace

Observer(s) on duty Megha Percy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

WEEKLY SUMMARY

Dates 8/13/00 - 8/19/00 Load Numbers 255-347

Range of Water Temp., Surface 30°-31°C Below Mid-Depth 30°-31°C

Areas Worked (lat/longs, stations) Sections: 4,8

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

On 8/15 a sample of a Loggerhead Sea Turtle (Caretta caretta) was retained in load # 295 @ 19:30 hours. This was the second incidental turtle take on this project. The sample was composed of only the posterior section of the animal, including: both rear flippers, anal scutes, pygal scutes and the tail. Species identification was based on flipper color being yellowish orange and pygal scutes being reddish brown.

Dredged material consisted of mud and clay. Biota retained in screening included: sargassum, Blue Crab, sea squirts, Whelk egg cases, catfish, toadfish, red snapper, red drum, eels, mackeral, spider crab, flatfish, manta ray, Calico Crab, worms and wood.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
8/13	Tursiops truncatus (10)	@ end of jetties and bow of trawler
8/14	Tursiops truncatus (6)	@ disposal area
8/15	Tursiops truncatus (44 sightings probably 30 animals)	@ end of jetties, @ bow of tankers, section 4
8/16	Tursiops truncatus (37-42 sightings) pod of 20-25	@ end of jetties & w/ passing ship, section 4
8/17	Tursiops truncatus (30-36 sightings) largest pod=15	@ end of jetties section 4, passing tankers
8/18	Tursiops truncatus (18-19 sightings) largest pod=4-5	by jetties, bow wakes of passing ships
8/19	Tursiops truncatus (16 sightings) largest pod=9	SE of jetties + Section 4
8/19	Unidentified Sea Turtle (Probably Leatherback?) (1)	in Channel

Observers on duty Meghan Piercy and Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 20 / 00 Load Numbers 348-361

Area(s) Worked Section 8

Weather Conditions (incl. sea conditions) Southerly winds @ 5-10, clear sky, seas = 1-2

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.
Dredged material consists of clay and mud.
Biological specimens retained by screening included = Whelk eggs
Eels, mackeral, sargassum, catfish, small yellowfin, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty Meghan Percy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel

DAILY REPORT

Date 8 / 21 / 00 Load Numbers 362-377

Area(s) Worked section 8

Weather Conditions (incl. sea conditions) Southerly winds @ 5-10, seas = 1-2, partly cloudy sky

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.
Dredged material is clay and mud.
Biological specimens retained by screening included: Catfish, Whelk egg cases, cannonball jellyfish, eel, ribbonfish, sea bass, sargassum, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	4	0740 / in section 4 next to dredge
Tursiops truncatus	15	0930 / end of jetties - all morning, then moving to surround a shrimp boat
Tursiops truncatus	2	16:50 / off jetties
Tursiops truncatus	5	17:30 / in channel by buoy

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 22 / 00 Load Numbers 378–389

Area(s) Worked section 8

Weather Conditions (incl. sea conditions) Southeast winds @ 5-10, clear sky, seas = 1-2

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.
Dredged material consist of clay and mud.
Biological specimens retained by screening include: Catfish, snapper, Whelk egg cases, Ribbonfish, Red Drum,
There was considerable down time in the late afternoon/evening for repairs

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty Meghan Piercy - Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: 'STUYVESANT'

Project: FREEPORT ENTRANCE CHANNEL. TX.

DAILY REPORT

Date 8 / 23 / 00 Load Numbers 390-400

Area(s) Worked Sections: 8, 5, 6

Weather Conditions (incl. sea conditions) ESE winds @ 5-10, clear - P/C sky, seas = 1-3

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of turtles.

Dredged material consists of mud and clay.

Biota = pogies, catfish, pompano, eel, whelk egg cases, sargassum, ribbonfish, wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Dead fish	thousands	12:30 / floating by jetties
Tursiops truncatus	3	12:40 / off jetties

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 24 / 00 Load Numbers 401 - 413

Area(s) Worked sections 5+6

Weather Conditions (incl. sea conditions) Easterly winds, partly cloudy skies w/ some rain, seas 1-2

Range of Water Temp., Surface 30°C Below Mid-Depth 30°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles today.

Dredged material consists of clay and mud.

Biological specimens retained by screening included: Pogies, Eel, pompano, Whelk egg cases, Catfish, ribbonfish, sargassum, shrimp, box crab, blue crab, yellow fin and wood, and one cocoanut

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	4	13:15 / End of jetties
Tursiops truncatus	3	13:45 / off bow in Channel

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 25 / 00 Load Numbers 413 - 424

Area(s) Worked sections 5 + 6

Weather Conditions (incl. sea conditions) Easterly winds (SE) @ 5-10, seas = 1-2, partly cloudy - clear sky

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.

Dredged material consists of clay and mud.

Biological specimens retained by screening included: Skates, Cownose Ray, Mantis shrimp, Blue crab, Ribbonfish, coconuts, Eels, Whelk egg cases, poagies, sargassum, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	1 (very large)	11:25 / Freeport Intersection @ Range Markers

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 26 / 00 Load Numbers 425-435

Area(s) Worked sections: 5+6

Weather Conditions (incl. sea conditions) SE winds @ < 5, seas = 1-2', clear + p/c sky

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no incidents with or sightings of sea turtles.

Dredged material consists of clay and mud.

Biological specimens retained by screening: Catfish, Cownose ray, whelk egg cases, small (6") unidentified ray, ribbonfish, skates, coconuts, eel, large shrimp, and wood, 1 spider crab.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	4	08:30/NE side of Freeport Intersection
Tursiops truncatus	15	09:20/@ jetties enroute to disposal area.
Tursiops truncatus	3	13:50/ by jetties
Tursiops truncatus	5	13:55/ riding bow wake of tanker

Observer(s) on duty Meghan Piercy and Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

WEEKLY SUMMARY

Dates 8/20/00 - 8/26/00 Load Numbers 348 - 435

Range of Water Temp., Surface 31°C Below Mid-Depth 31°C

Areas Worked (lat/longs, stations) sections: 8, 5, 6

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were no sightings or samples of sea turtles this week.

Dredged material consists of clay and mud.

Biological specimens retained by screening included: Whelk egg cases, eels, mackerel, catfish, sargassum, small yellowfin, cannonball jellies, ribbonfish, sea bass, Red Drum, snapper, pogies, pompano, blue crab, box crab, spider crab, shrump, mantis shrimp, coconut, skates, Cownose ray, and Wood.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
8/21	Tursiops truncatus (26)	Most @ mouth of jetties
8/23	Dead Fish (thousands)	floating by jetties
8/23	Tursiops truncatus (3)	mouth of jetties
8/24	Tursiops truncatus (7)	end of channel jetties & off bow.
8/25	Tursiops truncatus (1)	at Range Marker @ Freeport Intersect
8/26	Tursiops truncatus (27)	most @ jetties, 5 riding bow wake
/		

Observers on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, TX

DAILY REPORT

Date 8 / 27 / 00 Load Numbers 436 - 444

Area(s) Worked sections: 5+6

Weather Conditions (incl. sea conditions) winds: W-SE@S-10, seas = 1-2, clear and p/c sky

Range of Water Temp., Surface 30°-30.5°C Below Mid-Depth 30°-30.5°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredge is conducting clean-up of sections 5+6.

There were no sightings or samples of sea turtles.

Dredged Material consists of clay, mud, large quantities of wood.

Biological specimens retained by screening included: Ribbonfish, Blue Crab, Whelk egg cases, small eel.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tursiops truncatus	2	12:05 / @ disposal area
Tursiops truncatus	5	13:15 / by I.C.W.
Tursiops truncatus	3	20:00 / by I.C.W
Tursiops truncatus	5	20:50 / Pod by end of jetties

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

DAILY REPORT

Date 8 / 28 / 00 Load Numbers 445 - 452.

Area(s) Worked sections: 5, 6 ✓

Weather Conditions (incl. sea conditions) southerly winds @ 5, seas: 1-3, clear + p/c skies

Range of Water Temp., Surface 30°C Below Mid-Depth 30°C

Condition and Effectiveness of Screening Good

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings or samples of sea turtles.

The last load for the Stuyvesant was load # 452. The hopper dredge [redacted] left Freeport for dockage in Mobile and a plow was brought in to continue the project.

Dredged material includes: clay and mud.

Biota retained included: Catfish, eels, pogies, flatfish, and wood.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ft.	26.	By ECW / Outside of Jetties / Shipping Channel + Dump Site.

Observer(s) on duty Meghan Piercy, Rick Woods

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Stuyvesant

Project: Freeport Entrance Channel, Texas

WEEKLY SUMMARY

Dates 8 / 27 / 00 - 8 / 28 / 00 Load Numbers 436 - 452.

Range of Water Temp., Surface 30° - 30.5°C Below Mid-Depth 30° - 30.5°C

Areas Worked (lat/longs, stations) sections: 5,6

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were no sightings or samples of sea turtles.

The last load for Dredge Stuyvesant on this project was load # 452. She departed for dockage and repairs in Mobile upon completion of this load. A plow was brought in to continue work on the channel.

Dredged material consists of: clay and mud.

Biological specimens retained in screening included: Ribbonfish, Blue Crab, Whelk egg cases, eel, catfish, pogies, flatfish and wood.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
8 / 27	Tursiops truncatus (15)	@ I.C.W. by jetties & disposal area
8 / 28	" " (26)	" " " + Surfing Channel
/		
/		
/		
/		
/		

Observers on duty Meghan Piercy, Rick Woods