

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Freeport Harbor, TX
USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1 / 20 / 97 Loads: 1 through 3

Area(s) Worked: Galveston Inner Bar Channel Buoys 10 → 16

Weather Conditions: Calm seas, intermittent fog, overcast with light drizzle

Range of H₂O Temperature: Surface _____ Below Mid-Depth _____

Condition of all screening apparatus: All inflow screening in excellent condition.

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

Comments (type of material being dredged, biological specimens, etc.): Material dredged consisted of fine silt and sand. Very little debris found inlander screens, items were plastic debris, plastic bags, wood, 2 flounders, and one acrobatic fnsbee.

Observers Rory Bahadur and Kathryn Krueger embarked the Dredge Stuyvesant at 1000. Observers will be working 12 hour shifts from 1200 to 0000 and maintaining a bridge watch for endangered Species during daylight hours.

Dredging began at 1455 with no major incidents.

There were no incidents or sightings involving endangered species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus (Bottlenose dolphin)	1	7	Sighted in channel

Observer(s) On Duty: Rory Bahadur, Kathryn Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Freeport Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/21/97 Loads: 4 → 10

Area(s) Worked: Galveston Inner Bar Channel Buoys 10 → 16

Weather Conditions: SE winds 5-12 kts, seas 0-2'; overcast with light fog

Range of H₂O Temperature: Surface * — 12°C/54°F Below Mid-Depth —

Condition of all screening apparatus: All inflow screening in excellent condition

* temperature taken from local news surf temp

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was silt, sand, and clay.

Biological specimens included 2 skates, 1 crab, 1 blue crab, 1 flatfish, 1 flounder, 1 moon snail shell, 1 eel, and whelk shells.

Other items inlander screens were wood, plastic debris, cable, fishing line, scrap metal, tire, license plate, 1 frisbee and chain.

In two of those loads, there was minimal clay accumulation. Load #8 had clay that required the observer, with the aid of a crew member, to use a fire hose on clay balls. This caused the dredge 45 minutes of delay time.

There were no incidents or sightings involving endangered species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
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Observer(s) On Duty: Rory Bahadur, Kathryn Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Freeport Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1 / 22 / 97 Loads: 11 → 14

Area(s) Worked: Galveston Inner Bar Channel Buoys 10 → 16

Weather Conditions: Heavy fog, visibility 1/4 - 1/2 mile, winds calm, seas 1-3 ft.

Range of H₂O Temperature: Surface 54°F / 12°C Below Mid-Depth 53°F / 12°C

Condition of all screening apparatus: All inflow screening in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged is mostly silt and clay. Biological specimen accumulation was minimal and consisted of 1 eel, 1 flounder, 1 redfish.

For loads 11 and 12 the observer spent 1/2 hr. and 1 1/2 hrs. respectively removing clay balls from the screening.

The vessel was delayed at the dump area during discharge of load 11 due to problems with the hopper doors. During load 12 a shackle was lost on the starboard turtle deflector.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
N/A	0	0	

Observer(s) On Duty: R. Bahadur and K. Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Freeport Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/23/97 Loads: 15-19

Area(s) Worked: Buckets 10-16, Galveston Inner Bar Channel

Weather Conditions: Heavy fog, Calm Seas, Winds SE 10kts.

Range of H₂O Temperature: Surface 12°C Below Mid-Depth 12°C

Condition of all screening apparatus: Excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged is mostly silt and clay. Biological specimen accumulation in screening apparatus and dragheads is minimal and consisted of a rotten fish during load 17.

Screens (mid and aft)
required cleaning after load 16 due to the accumulation of non biological debris (clay, cable, brick, plastic and wood).

Turtle deflectors on both the port and starboard dragheads were hanging loose after load 18 due to shackle problems. These were promptly repaired and were in working order before dredging began again.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
N/A	8		

Observer(s) On Duty: Rony Bahadur and Kathy Kerueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Freeport Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/24/97 Loads: 20, 21, 22

Area(s) Worked: Galveston: Inner Bar Channel Bays 10-16 and Bolivar Roads Anchorage

Weather Conditions: Fog early then clearing, SE Wind 5 kts becoming winds 10 kts, Seas calm

Range of H₂O Temperature: Surface 11-13 °C Below Mid-Depth 11-12 °C

Condition of all screening apparatus: All screening apparatus in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was mostly silt and clay. Biological specimen accumulation in inflow screening and dragheads remains light. Specimens included 4 decomposing redfish, 1 decomposing bird, 1 blue crab, 2 seahorses, a large gastropod mollusc and one snake eel.

Non biological debris consisting of fishing line, fishing net, cable, bricks, clay and various metal casings was also found in screens.

The dredge anchored at approximately 0935 hrs. at N 29° 21.190 and W 094° 45.128 for fueling. Dredging operations resumed at 1810 hrs.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
N/A	0		

Observer(s) On Duty: R. Bahadur & K. Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/25/97 Loads: 23 - 28

Area(s) Worked: Inner Bar Channel Buoys 10-16 and Bolivar Roads Anchorage

Weather Conditions: Calm Seas, Winds variable to 10 kts.

Range of H₂O Temperature: Surface 13-14 °C Below Mid-Depth 11-13 °C

Condition of all screening apparatus: All Screening apparatus is in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged consisted of sand, silt and clay. There was very little accumulation of biological specimens in tender screens. Only one skate observed and bivalve and gastropod molluscs. An increase in non biological debris was noted due to the fact that the vessel began dredging the shallow water anchorage adjacent to the channel as of load 23. Debris consisted of Tires, rope, cable, clothes, an aerobic flying disc, firehose plastic, rock and wood.

The dragheads are being brought aboard and cleaned 1-3 times per load to remove the debris while the vessel dredges the anchorage.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
N/A	0		

Observer(s) On Duty: Rory Bahadur, kathryn krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1 / 26 / 97 Loads: 29 - 35

Area(s) Worked: Bolivar Roads Anchorage and Inner Bar Channel. Buoys 10 - 16

Weather Conditions: Sunny and clear early becoming heavy fog. Winds light & variable, Seas 1-4 ft.

Range of H₂O Temperature: Surface 13 - 13.5°C Below Mid-Depth 12 - 14°C

Condition of all screening apparatus: All screening apparatus is in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged is a combination of sand, silt and clay. Biological specimen accumulation in inflow screening is minimal. Specimens included: 2 skates, 1 crab, 1 sooty eel, 1 snake eel and gastropod and lamellibranch molluscan shells and shell fragments.

Significant amounts of non biological debris being observed in screens. This included: fishing line and mesh, foam, metal cable, rope, metal bars, rocks, plastic, soda cans, metal casings and chain

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u> (Bottlenose dolphin)	<u>1</u>	<u>1</u>	<u>Following inbound tanker in channel at 1201 hrs.</u>

Observer(s) On Duty: k. krueger, R Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

WEEKLY SUMMARY

Dates: 1 / 20 / 97 - 1 / 26 / 97 Loads: 1 through 35

Range of H₂O Temperature: Surface 11°- 14°C Below Mid-Depth 11°- 14°C

Area(s) Worked: Galveston Inner Bar Channel between buoys 10 and 16, Bolivar Roads anchorage

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

Comments: Observers embarked vessel at 1000 on 1-20 and have been working 12 hour shifts from 1200 to 0000 and maintaining bridge watches during daylight hours for endangered species. Dredging began at 1455 with no major incidents.

Clay accumulation lodged in lander screens caused minimal problems. On 1-21, load #8 had clay that required the observer and a crewmember to use a fire hose for removal. This caused 45 minutes of delay time.

TED's on both port and starboard dragheads were hanging loose after load #18. They were promptly repaired and in working order before dredging resumed.

1-24 Dredge anchored in Bolivar Roads Anchorage at 29°21'19"N and 094°45'.13W for fueling. Dredging operations resumed at 1840.

Material dredged consisted of silt, sand, and clay.

Biological samples were 6 skates, 5 blue crabs, 1 flatfish, 5 flounders, 1 moonsnail, 3 whelk shells, 6 red fish, 2 unidentified rotten fish, 1 decomposed seabird, 1 sooty eel, 2 snake eels, 2 gastropod molluscs, oyster shells, 1 jellyfish, and shell fragments.

Other debris in dragheads and lander screens included plastic, plastic bags, cloth, wood, frisbees, cable, fishing line and net, scrap metal, 1 license plate, tires, chain, bricks, firehose, rope, and rock.

There were no incidents involving endangered or protected species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i> (Bottlenose dolphin)	2	8	bowriding in channel, sighted in channel

Observers On Duty: Rory Bahadur, Kathryn Kruger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/27/97 Loads: 36-41

Area(s) Worked: Bolivar Roads Anchorage, Inner Bar Channel Buoys 10-16

Weather Conditions: Thunderstorms, Overcast - Wind becoming WNW 40 kts, Seas to 7 ft.

Range of H₂O Temperature: Surface 11-13°C Below Mid-Depth 11-13.5°C

Condition of all screening apparatus: All inflow Screening in excellent condition.

Repairs were made to the top of the forward basket on load 41 before dredging resumed.

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was silt, sand, and clay.

Biological Specimens were molluscs, red fish, whelk, decomposed sea bird, 2 sooty eels & 1 jack fish.

Other items in dragheads were a mammalian femur, clay, foam, metal, plastic, tincans, and wood.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>None</u>	<u>0</u>	<u>0</u>	

Observer(s) On Duty: R. Bahadur & Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/28/97 Loads: 42-49

Area(s) Worked: Inner Bar Channel Buoys 10-16, Bolivar Roads Anchorage

Weather Conditions: Thunderstorms, Overcast, Seas to 7 ft, Wind WNW 30-35 kts

Range of H₂O Temperature: Surface 11-12°C Below Mid-Depth 10-12°C

Condition of all screening apparatus: All screening apparatus in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was sand, silt and clay

There was no significant accumulation of biological specimens in inflow screening.

Other items in screens and dragheads were, clay, trash, wood, metal debris, fire hose, rope cable, soda cans, foam, plastic and fishing line

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>2</u>	<u>3</u>	<u>Bow riding, Porpoising and breaching in the channel</u>

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1, 29, 97 Loads: 50 — 57

Area(s) Worked: Bolivar Roads Anchorage & Inner Bar Channel, Buoys 10-16

Weather Conditions: NNW wind to 3 kts, Seas < 1ft, Clear to lightly overcast skies.

Range of H₂O Temperature: Surface 10-12 °C Below Mid-Depth 11-12 °C

Condition of all screening apparatus: All screening apparatus in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged is sand, silt and clay.

There was minimal accumulation of biological specimens in inflow screening. Specimens consisted of 4 Sooty eels.

Other non biological debris observed included: fishing net, clay, trash, scrap metal, plastic, carpet, a fishing rod, rocks and wood.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>1</u>	<u>0845 hrs. Slow rolling in the Bolivar Roads Anchorage</u>

Observer(s) On Duty: Kathryn Kruerger and Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/30/97 Loads: 58 - 65

Area(s) Worked: Biloxi Roads Anchorage and Inner Bar Channel Buoys 10-16

Weather Conditions: Overcast becoming clear, Seas < 1ft, Wind NNW to 3kts.

Range of H₂O Temperature: Surface 11-12°C Below Mid-Depth 11.5-12°C

Condition of all screening apparatus: All screening apparatus in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was sand, silt and clay. Biological specimens included 4 flounders, 2 sooty eels, 1 blue crab and a large jellyfish.

Other items in screens included, trash, plastic, wood, rock, tires, cable, clay and scrap metal.

The crew of this vessel continues to be incredibly cooperative with regards to flushing the screens for longer than normal to remove heavy clay build up.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>2</u>	<u>Starboard bow - bow riding</u>

Observer(s) On Duty: Rony Bahadur and Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 1/31/96 Loads: 66-73

Area(s) Worked: Bolivar Roads Anchorage and Inner Bar Channel Buoys 10-16

Weather Conditions: Seas to 1 ft., Winds SW 10-15 kts., overcast

Range of H₂O Temperature: Surface 11°C Below Mid-Depth 11°C

Condition of all screening apparatus: All screening apparatus in excellent condition.

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was sand, silt and clay.

No biological specimens were observed in the inflow screening.

Abiotic debris in screens consisted of rock, plastic, trash, light clay and scrap metal

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>3</u>	<u>4</u>	<u>In channel - slow rolling and bow riding</u>

Observer(s) On Duty: Kathryn Krueger and Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2/1/97 Loads: 74-80

Area(s) Worked: Inner Bar Channel and Bolivar Roads Anchorage

Weather Conditions: Winds variable to 15 kts, Overcast, light fog, Seas to 3 ft.

Range of H₂O Temperature: Surface 12°C Below Mid-Depth 11°C

Condition of all screening apparatus: All screening apparatus in Excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was sand, silt and clay.

Biological specimens were

2 Blue crabs (*Callinectes sapidus*), 1 Snake eel (Fam: Ophichthidae), 1 Flatfish (Fam: Bothidae) and two gastropod molluscs (whelks).

Abiotic debris accumulating in inflow screening included the following: Wood, scrap metal, clay, plastic and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>I. truncatus</u>	<u>1</u>	<u>6±1</u>	<u>1020 hrs. - Slow rolling in inner bar channel</u>

Observer(s) On Duty: Kathryn Krueger, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2, 2, 97 Loads: 81 through 88

Area(s) Worked: Galveston Inner Bar Channel buoys 10 → 16, and Bolivar Roads Anchorage

Weather Conditions: light, patchy to thick fog all day, NW winds 5-12 kts, seas calm to 2'

Range of H₂O Temperature: Surface 10-13°C Below Mid-Depth 11-14°C

Condition of all screening apparatus: All inflow screening in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was Silt, Sand, and clay.

Biological specimens included 1 decomposed red fish, 1 whelk, 2 sooty eels, 1 jellyfish, 1 flounder, 1 blue crab, and 1 unidentified rotten fish.

Other items lodged in lander screens and dragheads were wood, metal scrap, plastic trash, line, cloth, cable, tires, fishing mesh, and chain.

There were no incidents involving endangered or protected species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>2</u>	<u>Sighted in channel</u>

Observer(s) On Duty: Rory Bahadur and Kathryn Kruger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

WEEKLY SUMMARY

Dates: 1/27/97 - 2/2/97

Loads: 36 through 88

Range of H₂O Temperature: Surface 10° - 13°C Below Mid-Depth 10° - 13.5°C

Area(s) Worked: Galveston Inner Bar Channel between buoys 10 and 16, Bolivar Roads Anchorage

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

Comments: Dredging this week was without incident. Crew cooperation continues to be exceptional, especially with regards to flushing lander screens to remove heavy clay buildup.

Material dredged was sand, silt, and clay.

Biological Specimens were molluscs, 3 red fish, 4 whelk, 1 1/2 decomposed unidentified fish, 1 decomposed sea bird, 10 sooty eels, 1 jackfish, 5 blue crabs, 5 flounders, 2 jellyfish, 2 snake eels, 1 flatfish, and shell fragments.

Other items in lander screens and dragheads included 1 mammalian femur, clay, foam, metal, plastic debris, tin cans, wood, fire hose, rope, cable, fishing line and net, carpet, 1 fishing rod, rocks, tires, and chain.

There were no incidents involving endangered or protected species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	<u>8</u>	<u>17</u>	<u>bow riding in channel, slow rolling in anchorage</u>

Observers On Duty: Rory Bahadur and Kathryn Kruger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2 / 3 / 97 Loads: 89 through 95

Area(s) Worked: Galveston Inner Bar Channel buoys 10 to 16, and Bolivar Roads Anchorage

Weather Conditions: Foggy, Seas to 3ft, Winds SW to 15 kts

Range of H₂O Temperature: Surface 11-12°C Below Mid-Depth 11-12°C

Condition of all screening apparatus: All screening apparatus is in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was sand, silt and clay.

Biological specimens

included 3 blue crabs, 1 mantis shrimp, 1 snake eel, 1 decomposing flounder, 1 skate, and 1 snake eel.

Abiotic debris included

trash, wood, plastic, scrap metal, fiberglass, rocks, and firehose

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>None</u>	<u>0</u>	<u> </u>	<u> </u>
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Observer(s) On Duty: Rory Bahadur and Kathryn Kruger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2, 4, 97

Loads: 96 - 102

Area(s) Worked: Bolivar Roads Anchorage, Inner Bar Channel, Buoys 10-16

Weather Conditions: Winds variable to 15 kts, Seas to 2ft, Intermittent heavy fog

Range of H₂O Temperature: Surface 12 °C Below Mid-Depth 12 °C

Condition of all screening apparatus: All screening apparatus in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was sand, silt and clay. Biological specimens included the following: 7 knobbed whelks, 5 skates and 2 flounders.

Abiotic debris included rocks, wood, plastic, trash, fiberglass, scrap metal, cloth, clay, tires and foam

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>2</u>	<u>5</u>	<u>Slow rolling and porpoising in inner bar channel.</u>

Observer(s) On Duty: Rony Bahadur and Kathryn Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2 / 5 / 97 Loads: 103 through 110

Area(s) Worked: Bolivar Roads Anchorage and Galveston Inner Bar Channel buoys 10 > 16

Weather Conditions: N Winds to 30 kts. Seas 4-6 ft., Overcast

Range of H₂O Temperature: Surface 12-13 °C Below Mid-Depth 11-13 °C

Condition of all screening apparatus: All screening apparatus is in excellent condition.

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged consisted of sand, silt, and clay.

Biological Specimens included 2 Snake eels, 3 Skates, 1 Redfish, 1 jellyfish, 1 blue crab and one knobbed whelk.

Non biological specimens included trash, clay, crab pots, tires, fishing line and mesh, scrap metal, cloth, wood, rocks, plastic, an aerobie and metal cable.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>10</u>	<u>Slow rolling in channel</u>

Observer(s) On Duty: Rory Bahadur and Kathryn Kruger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2/6/97

Loads: 111 - 119

Area(s) Worked: Boliver Roads Anchorage, Inner Bar Channel, Buoys 10 - 16

Weather Conditions: ENE Winds to 40 kts., Seas 5-8 ft., Overcast

Range of H₂O Temperature: Surface 12-14°C Below Mid-Depth 11-13.5°C

Condition of all screening apparatus: All screening apparatus is in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.): Material being dredged was sand, silt and clay.

Biological specimens included 1 snake eel, 5 sheates, 2 sooty eels, 2 bluecrabs and one left eyed flounder.

Abiotic specimens consisted of trash, wood, scrap metal, rocks, plastic, cable, clay and a frisbee.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>1</u>	<u>Slow rolling in B.R. Anchorage</u>

Observer(s) On Duty: Kathryn Krueger / Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2/7/97 Loads: 120 - 126

Area(s) Worked: Balivar Roads Anchorage and inner bar channel, Buoys 10-16

Weather Conditions: ENE Winds to 45 kts, Seas to 6 ft., Overcast

Range of H₂O Temperature: Surface 13-14°C Below Mid-Depth 13-14°C

Condition of all screening apparatus: All screening apparatus in excellent condition.

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

Comments (type of material being dredged, biological specimens, etc.):

Material being dredged was sand, silt and clay.

Biological specimens included 1 large redfish, 3 whelks, 1 sooty eel, 3 skates and 2 blue crabs

Abiotic debris in screens consisted of wood, trash, scrap metal, rocks, plastic, cable, clay and a fiberglass fishing rod.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>None</u>	<u> </u>	<u> </u>	<u> </u>
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Observer(s) On Duty: Rory Bahadur and Kathryn Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2/8/97 Loads: 127-132

Area(s) Worked: Bolivar Roads Anchorage and Inner Bar Channel, Buoys 7 and 8

Weather Conditions: NE Wind to 30 kts, Seas to 4 ft, Overcast

Range of H₂O Temperature: Surface 13-15 °C Below Mid-Depth 14-14.5 °C

Condition of all screening apparatus: All screening apparatus is in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.):

Material being dredged was sand, silt and clay.

Biological specimens included a blue crab and various molluscan shell fragments, and one skate.

Abiotic debris consisted of plastic, cable, wood, crab pots, scrap metal, fiberglass, firehose and clay.

The vessel anchored at 0920 hrs. for fuel and water and dredging operations resumed at 1825 hrs.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Ø</u>	<u>Ø</u>		

Observer(s) On Duty: Rory Bahadur and Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

DAILY REPORT

Date: 2 / 9 / 97 Loads: 133 through 137

Area(s) Worked: Bolivar Roads Anchorage and Galveston Inner Bar Channel buoys 7 and 8

Weather Conditions: NE winds to 20 kts, seas 2-4', overcast to mostly clear

Range of H₂O Temperature: Surface 13-15°C Below Mid-Depth 14-14.5°C

Condition of all screening apparatus: All in flow screening in excellent condition.

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was Sand, Silt, and clay.

Biological specimens included 1 blue crab and 2 sooty eels and 1 drum.

Debris lodged in dragwads and screens included 1 tire, cable, metal scrap, plastic trash, rocks, and wood.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Ø</u>	<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Rory Bahadur and Kathryn Kruger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Galveston Harbor, TX

USACE, Galveston District - Winter 1997

WEEKLY SUMMARY

Dates: 2 / 3 / 97 - 2 / 9 / 97 Loads: 89 through 137

Range of H₂O Temperature: Surface 11°-15°C Below Mid-Depth 11°-14.5°C

Area(s) Worked: Galveston Inner Bar Channel buoys 10→16, and Bolivar Roads Anchorage

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

Comments:

Material dredged consisted of sand, silt, and clay.

2-8 Vessel anchored at 0920 for fuel and water and dredging operations resumed at 1825 hours.

Biological Specimens included 11 blue crabs, 1 mantis shrimp, 5 snake eels, 1 decomposed flounder, 18 skates, 11 Knobbed whelks, 3 flounders, 2 redfish, 1 jellyfish, 7 sooty eels, 1 drum fish, and shell fragments.

Other debris sampled included wood, plastic, scrap metal, fiberglass, rocks, fire hose, cloth, tires, foam, crab pots, fishing line and mesh, frisbees, cable and a fishing rod.

Observers Bahadur and Kruger disembarked vessel at approximately 1830 hours

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	<u>5</u>	<u>16</u>	<u>Slow rolling in channel and in anchorage</u>

Observers On Duty: Rony Bahadur and Kathryn Kruger

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant
Galveston Channel /USACE, Galveston District

DAILY REPORT

Date: 02 / 26 / 97 Loads: 01-02

Area(s) Worked: Stations 126+00-150+00

Weather Conditions: Skies cloudy, overcast, rain, Winds S-SE 5-15 knots, Seas 1'-3'

Range of H₂O Temperature: Surface 55°F Below Mid-Depth _____

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Observers aboard this morning at 0930.

The dredge will be digging for about two or three days cleaning up. The dredge is equipped with three landers that are 100% screened. TEDs are in good shape on each of the dragheads. The dredge is 100% inflow screened. Dredging commences at 1315.

Two loads were dug today. Samples are small in quantity. Samples today consisted of flounder, whelks, rock, wood and trash.

Water temperatures are taken from the cut area by the observers. Material digging is mud.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	2	Bottlenose Dolphins

Observer(s) On Duty: Eric Westerman, Cheryl Ryder

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge **Stuyvesant**
Galveston Channel / USACE, Galveston District

DAILY REPORT

Date: 02 / 27 / 97 Loads: 03-07

Area(s) Worked: Stations 126+00-150+00

Weather Conditions: Skies cloudy, Winds northerly 10-15 knots, Seas 1'-3'

Range of H₂O Temperature: Surface 55-56-57°F Below Mid-Depth _____

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Samples today were very small in quantity.

Samples mainly consisted of small amounts of wood ash trash, clay and blue crabs.

The dredge went into port today for fuel and water. Material digging is mud, silt and small amounts of clay.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

Eric Westerman, Cheryl Ryder

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge **Stuyvesant**
Galveston Channel / USACE, Galveston District

DAILY REPORT

Date: 02 / 28 / 97 Loads: 08-12

Area(s) Worked: Stations 126+00-150+00, 136+00-121+00, 130+00-150+00

Weather Conditions: Overcast, fog, Winds SE 5-15 knots, Seas 1'-2'

Range of H₂O Temperature: Surface 58-60°F Below Mid-Depth

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Large quantities of clay was dug and sampled today. Most all of the clay was easily flushed out of the screens. Biological samples increased in quantity and diversity today. Samples included blue crabs, eels, stingrays, whelks, hammerhead shark, decomposed fish. Other samples included clay, wood, nets, cable, trash and tires.

Material digging is mud, clay and silt.
Project completed after dumping load 12. During the last three days there were no sightings or incidents detected with any sea turtles.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

Eric Westerman, Cheryl Ryder

Observer(s) On Duty: