Endangered Species Observer Program

Dredge: Stuyvesant

Project: St. Mary's Entrance Channel
Virgo's Bay Entr. Channel

Date 2-7-01 Load # 01 Start 2140 End 0140 Dump 0430

Date 2-7-01 Load # 2 Start 0650 End 0915 Dump 1050

Date 2-7-01 Load # 3 Start 1230 End 1346 Dump 2216

Location (Lat-Long / Stations) 30°42.N 81°21.W Section 4

Weather CLEAR, Hazy lt. 5KTS. SEAS: CALM same/same

H2O Temp. Surface 55° Time 11:30 Below Mid Depth 55° Time 1135 (F)

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

Note biological observations-screening condition

Port Draghead fishing net / seawhip Deflector OK / OK / OK

Star. Draghead carpet / fishline Deflector OK / OK / OK

Forward Loader FINGER SPONGE

Mid Loader ∅∅∅ horseshoe crab

Aft Loader ∅ PLASTIC fishline cloth

Overflow Main Overflow Port ∅∅∅ Overflow Star. ∅∅∅

Comments (endangered species obs, dredged material, biological obs, etc.)

Material: SILT (Soup) & viscous clay
soft silty clay w/ occasional fairly fine sand.
& Finger
Sponge / Seawhip 3-4 hr dig
— plastic 3 hr to dump at slow bell

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Dolphins	4-6	700 #16
T+	2-4	2105 # bet. 16+17

Observers on duty Briga, Westerman

~~0839~~ 1839 3/16 B generator Eagle

Endangered Species Observer Program

Dredge: Stuyvesant

Project: St Mary's Ent. Channel, Kings Bay

Date 2-8-01 Load # 4 Start 0110 End 0620 Dump 0820

Date 2-8 Load # 5 Start 0950 End 1255 Dump 1425

EBB Date 2-8 Load # 6 Start 1625 End 2120 Dump 0010

Location (Lat-Long / Stations) SECT. 4, 5 (30°42.71N 81°20.84W)

Weather Pt cloudy, LT. 5KTS Ely SEAS: <1' ← same

H2O Temp. Surface 55/56 Time 17:05 Below Mid Depth 55/56 Time 17:10 (F)

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

Note biological observations-screening condition

Port Draghead net / fish line Deflector OK Ø OK

Star. Draghead 1" wood Deflector OK Ø OK

Forward Loader —

Mid Loader sea whip

Aft Loader garbage, clayballs / clayball / cloth, plastic

Overflow Main — Overflow Port Ø / Ø / Ø Overflow Star. Ø / Ø / Ø

Comments (endangered species obs, dredged material, biological obs, etc.)

- silty clay
- Bird - seawhip
- Trash
- Slow Bull 5KTS. observed at Nite

FJ Engineer leave report on chart table with ships daily

Lee Corp Cadet - contract friday specs.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø Tt	4-6	channel #16

Observers on duty Briga, Westerman

Endangered Species Observer Program

Dredge: Stuyvesant

Project: St. Mary's Entrance Channel, King's Bay

2 9 01 (?) 6 1625 2120 0005

Date 2-9-01	Load # 7	Start 0010	End 0650	Dump 0835 (2B)
Date 2-9-01	Load # 8	Start ~~0245~~	End 0650	Dump 0835
Date 2-9-01	Load # 9	Start 1020	End 1430	Dump 1610

Location (Lat-Long Stations): SECTION 4

Weather: Clear, to Pt'ly cloudy, SEAS <1'-1' Lt. E'ly 2-3 KTS. Low E'ly swell (F)

H_2O Temp Surface 57° Time 10:45 Below Mid Depth 57° Time 1050

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

Note biological observations-screening condition

Port Draghead: plastic fishline — Deflector: OK | OK | OK

Star Draghead: ϕ ϕ — Deflector: OK | OK | OK

Forward Loader: —

Mid Loader: sponge sea whips, plastic

Aft Loader: wood sea whips,

Overflow Main: — Overflow Port: ϕ Overflow Star: ϕ

Comments (endangered species obs, dredged material, biological obs, etc.)

pass. Right W 10:30 (?) confirmed at 11

* BIO: sponge

— wood, fishline cloth, plastic

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tt	2-4	10:40 Betw. Bray's # 16 & # 17
Tt	2-4	→ observed during entire load time
	"	0210

Observers on duty Westerman Briggs

Endangered Species Observer Log

Dredge Stuyvesant

Protect St. Mary's Entrance Channel Kings Bay

2.(9)

Date 2.10 Load = 10 Start 1730 End 2250 Dump 0107

F Gold Date 2.10 Load = 11 Start 0350 End 0820 Dump 1015

EBB 9L FC Date 2.10 Load = 12 Start 1210 End 1720 Dump 1930 (Sect. 3)

Location (Lat-Long Stations) 4

Weather S East 7-10 KTS, seas: 1'±, low E'ly swell, PT'ly cloudy | ENE 8-10 KTS cloudy, 1' seas

H2O Temp Surface 57°F Time 1240 Below Mid Depth 57°F Time

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

Note biological observations-screening condition

Port Draghead Ø, wood | plastic Deflector OK OK OK

Star Draghead Ø fishline | wood Deflector OK OK OK

Forward Loader —

Mid Loader wood, Trash, | Trash clay balls

Aft Loader cannonball jelly, sponge, seawhip clayballs. | horses crab Trash clay balls

Overflow Main — Overflow Port Ø Overflow Star. Skate

Sect. 3+4

Comments (endangered species obs, dredged material, biological obs, etc.)

— 1 Horses Crab

— biota, 1 cannonball jelly fish, seawhips ~~Skate~~ ~~Hearnose~~

— plastic, rope, net fishline cloth wood 1 horses Crab

5 adult Right Whales spotted at 30° 36.5 N

81° .07 W at 1503

called in at 1515

Dump

Channel

Bridge Watch Summary

Species	whales x # of Animals	Time / Location / Comments
Bottenosed dolphin (Tt)	20-25-30	common sight all day in the channel

Observers on duty Westerman, Briga

Endangered Species Observer Program

Dredge Stuyvesant

Project: St. Mary's Channel King's Bay, FIA

Date 2-11-01 Load # 13 Start 2140 End 0240 Dump 0535

Date 2-11-1 Load # 14 Start 0755 End 1245 Dump 1420

Date 2-11-01 Load # 15 Start 1620 End 2130 Dump

2-12 dump

Location (Lat-Long Stations) Sect. 3+4

Weather Cloudy, ENE 8-10KTS., Seas 1', E'ly Swell 3-4' | cloudy, NE 15KTS 3-4 Seas | 4-5' E'ly Swell

H_2O Temp. Surface 57°F Time Below Mid Depth 57°F Time

Are there incidents involving endangered or protected species? Yes No

Note biological observations-screening condition

Port Draghead trash | sea whip plastic wood Deflector OK

Star Draghead trash | net Deflector OK

Forward Loader —

Mid Loader trash | Sea whip fish line

Aft Loader trash | fish line seaweeds spider crab

Overflow ~~Main~~ Overflow Port 2 Horseshoe crabs (live Back to SEA) Overflow Star

Comments (endangered species obs. dredged material, biological obs, etc.)

Clay/silt viscous clay

Trash

spider crab, 5 Horseshoe Crabs, sea S

Rt. Whale

Aerial Survey plane report: 30°21.5 N 81°07.5 W | 30°28.8 81°06.8

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
1+	4-6	11:23 30°42.66 N 81°22.70 W

Observers on duty Briga, Westerman

Endangered Species Observer Program

Dredge Stuyvesant

Project St Mary Entrance Channel

Started on the 11th

Date 2-12 Load # 15 Start 1620 End 2130 Dump 2340

EBB/SLACK FL Date 2-12 Load # 16 Start 0315 End 0735 Dump 0925

Date 2-12 Load # 17 Start 1130 End 1630 Dump 1810

Location (Lat-Long Stations) 3+4

Weather O/C - NE 20KTS., 2-4' SEAS, 5-6' E lyswell poor vis. Fog

H2O Temp Surface U/A Time _____ Below Mid Depth U/A Time _____

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

Note biological observations-screening condition

Port Draghead Clay plastic Deflector OK OK OK

Star Draghead clay Deflector OK OK OK

Forward Loader —

Mid Loader clay cloth fish line Trash

Aft Loader clay, 2 Horseschoeler, fish line Trash

Overflow Main — Overflow Port horses, crab Trash Overflow Star Seawhips Trash

Comments (endangered species obs, dredged material, biological obs, etc.)

3 Horseschoeler

Whelk eggcase whelk Bryozoan

x Cannonball Jellyfish

Gorgiana Black Sea Rod (?) mudibrach

~~TR~~

TRASH

Morrison replaces Westerman

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
TT	4-6	1125 30°42.63N 81°22.76W

Observers on duty Westerman, Briga

Endangered Species Observer Program

Dredge: Stuyvesant

Project: St. Mary's Entrance Channel

Sections 3 & 4

EBB STACK FLOOD Date 02/13/01 Load # ~~19~~ 18 Start ~~0395~~ 0335 End 1055 Dump 1250

EBB Date 2/13/01 Load # ~~20~~ 19 Start 1435 End 1940 Dump 2130

Date _____ Load # _____ Start _____ End _____ Dump _____

Location (Lat-Long Stations) Sect. 3&4

Weather 0-10 knots N variable, FOG, seas BSS 2, no swell | seas 1' NE5-10KTS, FOG visib poor, BSS2 E'ly swell

H2O Temp Surface 57°F Time 15:05 Below Mid Depth 15:10 Time 57°F

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

Note biological observations-screening condition

Port Draghead wire, clay / clay, plastic Deflector OK OK

Star Draghead cloth, fence, wood, wire / Deflector OK OK

Forward Loader —

Mid Loader fishing gear (an abundance nylon lines / nets)

Aft Loader

Overflow Main — Overflow Port horses, CRAB wood Overflow Star wood

Comments (endangered species obs. dredged material, biological obs, etc.)

silty mud - sm. amt. of sand - clay balls

* Bio - (3) flounders, bryozoans, moonsnail, nudibranchs,

* Trash - wood, plastic, rubber, fast lines, cloth

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observers on duty Bette Momsen, Irene Briga

Endangered Species Observer Program

Dredge Stuyvesant

Project ST. Mary's ENTRANCE Channel King's Bay, FLA.

See 3+4

Date 2-13-01 Load # ~~18~~ 17 Start 1945 End 0045 Dump 0245-0305

Date ' ' Load # Start End Dump

Date Load # Start End Dump

Location (Lat-Long Stations) 3+4

Weather NE 20 KTS, cloudy, 2-3' SEAS, 5-6' swell

H_2O Temp Surface Time Below Mid Depth Time

Are there incidents involving endangered or protected species? Yes (No)

Note biological observations-screening condition

Port Draghead swim goggles, wire, wood, netting, nylon line Deflector OK

Star Draghead nylon line Deflector OK

~~Forward Loader~~

☆ Mid Loader shell, wood, 2 plastic buckets, firehose, fishing line, wire, metal, netting, Al. cans etc.

Aft Loader shell, wood, plastic bucket, firehose, nylon line/fishing, horseshoe crab, unid bryozoan

~~Overflow Main~~ Overflow Port plastic, line, wood Overflow Star. plastic, line, wire wood

Comments (endangered species obs. dredged material, biological obs, etc.)

Silty mud and some sand w/small clay balls

Mention that 90% of forward box grating was covered w/debris

1330 Bette Morrison replaced Peter W.

☆ whelk egg casings, tire, pen shell, coral, iron pipe.

~~Morrison replaces Watermans~~

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observers on duty Briga / Morrison

Endangered Species Observer Program

Dredge Stuyvesant

Project ST. Mary's Channel King's Bay, FLA.

Date 2/14/01 Load # 20 Start 2330 End 0525 Dump 0725

Date 2/14/01 Load # 21 Start 1020 End 1520 Dump 1700

15 Date 2/14/01 Load # 22 Start 1855 End _____ Dump _____

Location (Lat-Long Stations) ~~30-40~~ Sect. 3/4

Weather FOG!! winds 0-5 knots. Vis. very poor, seas calm, swell 2'

H_2O Temp Surface 60°F Time 13:00 Below Mid Depth 60°F Time 13:05

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

Note biological observations-screening condition

Port Draghead clay, cotton line, nudibranchs | log, Trash Deflector OK OK

Star Draghead line, nudi. / Trash | Deflector OK OK

~~Forward Loader misc debris~~

Mid Loader misc. debris, wood, plastic, nudib., seaweed, shell | ← same

Aft Loader plastic milk crate, rubber, shell, line, coral, misc debris, seaweed (wrack?)

Overflow Main woody debris, plast Overflow Port woody debris plastic Overflow Star. Horseshoe crab

Comments (endangered species obs. dredged **material, biological obs, etc.)**

Mid loader so clogged it was still full of water at the dump. Pins lifted out and loader cleared 0730-0800 re v'd @ 0815 I heard long high pitched squeals to port. Whale? or bird unknown. Vis very bad 100' possibly

Bio. whelk egg cases, skate egg case, coral, spider crab, sea whips seaweed nudibranchs, shrimp, seaweed, moon snail horses crab

Jelly fish observed in water

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
TT	(2-4) 16:10	30°40:2N 81°16.3W

Observers on duty - Bette Morrison

Fog lifted at 1:40 - 5:

Endangered Species Observer Program

15th
832 Low
1400 H
2040 Low

Dredge Stuyvesant

Project: St. Mary's Entrance Channel

Date 2/14/01 Load # ~~21~~ Start 1020 End _____ Dump _____

Date _____ Load # _____ Start _____ End _____ Dump _____

Date _____ Load # _____ Start _____ End _____ Dump _____

Location (Lat-Long Stations) _____

Weather FOG vis very poor, winds 0-5knots NE, swell 2'-3', seas calm

H2O Temp Surface _____ Time _____ Below Mid Depth _____ Time _____

Are there incidents involving endangered or protected species? Yes No

Note biological observations-screening condition

Port Draghead _____ Deflector _____

Star Draghead _____ Deflector _____

Forward Loader _____

Mid Loader _____

Aft Loader _____

Overflow Main _____ Overflow Port _____ Overflow Star _____

Comments (endangered species obs. dredged material, biological obs, etc.)

_____

_____

_____

_____

_____

_____

_____

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tt	2-4	13:50 30°42.70N 81°20.77W buoys 14x15

Observers on duty Bette Mamson/Irene Briga

Endangered Species Observer Program

(23)

Dredge Stuyvesant

Project: St. Mary's Entrance Channel

tide ebb/

Dump 15 Date 2-15/01 Load # 22 Start 1855 End 2350 Dump 0135

Date 02/15/01 Load # 23 Start 0345 End 0824 Dump 1010

FL. SL EBB Date 2/15/01 Load # 24 Start 1200 End 1700 Dump 1850

Location (Lat-Long Stations) Sect. 3+4

Weather NE'ly 5-7KTS. Fog clearing / clear winds ENE 0-5 Knots, seas calm swell 2-3' / seas calm

H2O Temp Surface 60°F Time 1900 1340 Below Mid Depth 60°F 60°F 1340 Time 1205

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

Note biological observations-screening condition

Port Draghead Plastic, wire, netting, clay, line / clay, log, plastic **Deflector** OK OK OK

Star Draghead mush, net, wire / clay, metal, wood, milk crate **Deflector** OK OK OK

~~Forward~~ Mid Loader mud branchs, horseshoe crab, moon jelly, whelk, clam, plastic, rope, net, wire, rubber boots, wood, mud, fiberglass

Mid Loader Misc. debris, Sea whips, fabric, sea squirt, elastic, line

Aft Loader wood, shell, fiberglass, metal, wire, misc. debris

Overflow Main woody debris, Al cans, unid. Protozoa, plastic, wood, horses crab, mudbranchs **Overflow Port** _____ **Overflow Star** _____

Comments (endangered species obs, dredged material, biological obs, etc.)

Dredged material silty mud, clay and some sand. / soft silty clay w some sand

It appears that the amts. of sea whips are clogging screen in mid loader the pins will have to be pulled again and debris cleared // 1030 we cleared mid box by hand. - Intense sulfur smell with these loads, enough to sting the eyes while on the bridge wing

tunicate, bladder wrack, horses crab, sea whips, mudbranchs, whelk, egg case, skate wood track, egg case

Load #24 pulled pins - Cleaned mid by hand clogged with sea whips & fishing line

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
TT	1-2	1148 buoy 15 entrance channel, surfacing leisurely
TT		17:07 30 42.70 N 81 20.82 W

Observers on duty Buga, Morrison

1-16-01
25-27

Endangered Species Observer Program

Dredge Stuyvesant

Project ST. Mary's Channel King's Bay, FIA Tide: ebb/flood

15/16 → Date 2-15-16-01 Load # 25 Start 2115 End 0116 Dump 0400

Date 2/16/01 Load # 26 Start 0630 End 1130 Dump 1310

Date 2/16/01 Load # 27 Start 1440 End 1830 Dump 2125

Location (Lat-Long Stations) sect. 3 & 4

Weather clear, SE 5KTS, SEAS: 21', FOG! 100' vis, seas calm 1110 Fog lifting, / Pt'ly cloudy, SE 10 Kts ↑ - Seas 1' ↑

H2O Temp Surface 59F Time 15 45 Below Mid Depth 59 00 F Time 15 50

Are there incidents involving endangered or protected species? Yes (No)

Note biological observations-screening condition

Port Draghead clay line / clay, line (hemp) Deflector OK

Star Draghead log, clay, nylon line / netting, plastic mesh bag Deflector OK

~~Forward~~ Mid Loader ~~cannonball~~ jelly, rubber tire tube, clay, firehose, plastic crate, plastic bags, line, misc.

Mid Loader human debris, sea whips, horseshoe crab

Aft Loader cannonball jelly, horse shoe crab, log, shell, Aluminum, fiberglass, metal pieces

Overflow ~~Main~~ woody debris, horse shoe cr. ~~Overflow Port~~ Al. can Scuba mask ~~Overflow Star~~

Comments (endangered species obs. dredged material, biological obs, etc.)

- Dredged material clay, silty mud / soft ~~[illegible]~~ clay
- Horses crabs, spider crab, sea whips, nudibranchs, cannonball jellys shells, whelk & skate egg case, clam, seaweed
- alot of wood / plastics, fish line & nets, rubber
- Slow Bell - Aerial Survey reported whales in 15 mi area

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments (Bouy 17A & 16A)
Tt	1-2	1623 30°42.63N 81°22.27W

Observers on duty Briga, Morrison

Endangered Species Observer Program

Dredge: Stuyvesant

Project: ST. Mary's Channel King's Bay, FIA.

Date 2.17.01 Load # 28 Start 0015 End 0500 Dump 0730

Date 2.17.01 Load # 29 Start 0915 End 1415 Dump 1600 ebb/S4 FL.

EBB Date 2.17.01 Load # 30 Start 1745 End 2240 Dump 0045 2/18/01

Location (Lat-Long / Stations) N 30°42.73 W 81°20.50 / stations 3+4

Weather Swell 3', Seas 1-2', winds 10-20 knots, squalls to P. clody, clear, NE 15↓5 KTS. Seas 2-3'↓<1'

H2O Temp. Surface 58°F Time 1330 Below Mid Depth 58°F Time 1335

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

Note biological observations-screening condition

Port Draghead clay / clay wood Deflector OK | OK | OK

Star. Draghead sea whip, nylon line / clay plastic Deflector OK | OK | OK

~~Forward~~ Mid Loader rangear, metal, coral, horseshoe crab, plastic(s) / crate / bottles etc., fishing line

~~Mid~~ Loader rock, drag tooth, shell (whelk, cockle), rubber, wood, netting (lots) / plastic bottles

~~Aft~~ Loader shell, metal, plastic | 4 horseshoe crabs

Overflow ~~Main~~ clorox bottles, woody debris Overflow ~~Port~~ Overflow ~~Star.~~

wood | 3 HS crabs

Comments (endangered species obs, dredged material, biological obs, etc.)

Dredged material - thick clay, silt

experimented w/flushing tech. we flushed while still full & after dump good % of debris released.

Trash / plastic, netting

Biotic: shell 4 horseshoe crabs cannonball jellys seawhips coral, seaweed

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tt	1-2	304278 811751

Observers on duty Morrison / Briga

Endangered Species Observer Program

Dredge Stuyvesant

Project St. Mary's Entrance Channel

Date 2-18-01 Load # 31 Start 0205 End 0640 Dump 0815 flood/sl/ebb

Date 2-18-01 Load # 32 Start 1010 End 1505 Dump 1650 ebb/Flood

2/19/01 Date 2-~~18~~ 19-01 Load # 33 Start 1845 End 2325 Dump 0215 Flood/

Location (Lat-Long / Stations) Stations 3 + 4

Weather BSS 4, swell NE 4-5', seas 2-3' winds NE 15-25, mostly clear, NE 20-25 KTS, seas: 4-6'

H_2O Temp Surface 57.5°F Time 1620 Below Mid Depth 57.5°F Time 1625 BSS 5, NE swell

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

Note biological observations-screening condition

Port Draghead clay / clay wood / clear Deflector OK OK OK

Star Draghead sea whip / weed nylon line / rag plastic / nylon line Deflector OK OK OK

~~Forward~~ Mid Loader rubber boot, net, fabric, raingear, shell, horseshoe cr., rock, clay, nylon hemp line, metal, shackles,

Mid Loader dragtooth, plastic bottles, plastic bags, fiberglass, wood (same debris dragtooth ct)

Aft Loader clay, shell, plastic, line sea whips / weed / weed seawhips, shell, trash cloth clay

Overflow ~~Main~~ horseshoe cr., spiny dogfish, woody debris, plastic Overflow ~~Port~~ clay shell woody debris (same dogfish) Overflow ~~Star~~ plastic bottles

Comments (endangered species obs, dredged material, biological obs, etc.)

Poss. whale / or sea spray to Port @ dump no bodies seen, singular tall blow / total of 4 at one point more than one. Due to animals BSS could have been spray from wave 0835 N 30°32.86 W 81°17.70 2nm heading 0° (N) rag bearing to animal 300° distance 1/2 mi

0937 Alicia (whale survey) called - no flight today due to high winds

☆ Bio/Abio underlined blue load 33 USN 025

Slow Bell - Right Whale sighted by (Navy Beeper) at 30°41.N 81°14W @ 1351

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observers on duty Morrison / Briga

Endangered Species Observer Program

Dredge Stuyvesant

Project St. Mary's Entrance Channel / Kings Bay

Date 02/19/01 Load # 34 Start 0435 End 0940 Dump 1120 flood/sl/ebb

Date 2/19/01 Load # 35 Start 1305 End 1800 Dump 2020 FL/SL (1743 High)

2-20 Date 2/20/01 Load # 36 Start 0025 End 0240 Dump 0530

Location (Lat-Long / Stations) stations 3 & 4

Weather Partly Cloudy, seas 2-3' swell 3', BSS 3, winds NE 10, Clear, NE10KTS, seas: 1-2', E'ly swell

H_2O Temp Surface 60°F Time 1420 Below Mid Depth 60°F Time 1425

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

Note biological observations-screening condition

Port Draghead nylon line / wood, clay, fish line / H_2O bottle line Deflector OK OK

Star Draghead log, fishing line, milk crate / cloth / nylon line Deflector OK OK

~~Forward~~ Mid Loader shell, Al pipe, fiberglass, metal, horseshoe cr., net, line, plastics(!),

Mid Loader fabric, Clay, misc. debris / cloth, plastic, nylon debris, 2 HS crabs, shell, seawhip, Bladderwrack, Seaweed

Aft Loader Cannonball jelly, hat, raingear, Al. pipe, metal, misc. debris cannonball jelly, fish wire mesh

~~Overflow Main~~ horshoe cr., flounder, Woody debris, plastic, unid. Overflow ~~Port~~ Al. cans / woody debris, 3 HS crabs, plastic, mud branches Overflow ~~Star~~ drink stirrer fork, misc. plastics

Comments (endangered species obs, dredged material, biological obs, etc.)

Dredged material clay, silt

EWS - reported whale sighting @ 15:37 30°27.0N 81°12.0W

Slow bell observed

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tt	1-2	1510 30°42.71N 81°21.93W

Observers on duty Morrison / Briga

31 08 81.15.3 M/C

Endangered Species Observer Program

Dredge Stuyvesant

Project St. Mary's Entrance Channel / Kings Bay

Date 2/20/01 Load # 37 Start 0805 End 0920 Dump 1050

Partial load Date 2/20/01 Load # 38 Start 1420 End 1835 Dump 2055

Date _____ Load # _____ Start _____ End _____ Dump _____

Location (Lat-Long / Stations) 3 & 4

Weather light fog, NE 0-5, seas calm, swell 2-3' / clear 1120 / Ptly cloudy, NE 5-10KTS, 3-4' swell SEAS CALM <1'

H2O Temp Surface 59° 60°F Time 0755 1525 Below Mid Depth _____ Time _____

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

Note biological observations-screening condition

Port Draghead mesh bag, nylon line / cement, fabric, clay Deflector OK / OK

Star Draghead clay, seaweed / clay, wood Deflector OK / OK

~~Forward~~ Mid Loader Alum., wood, metal, net, line, horseshoe cr., bikini bottom, fabric plastic

Mid Loader _____

~~Aft~~ Loader shell, hshoe cr., metal, wood, net line

Overflow Main horseshoe cr., 2 unid. stingray woody debris Overflow ~~Port~~ plastic bottles plastic debris Overflow ~~Star~~ _____

↑ same

Comments (endangered species obs, dredged material, biological obs, etc.) NRW Sightings

✓ Dredged material clay/silt	31° 08.2N	81°14.4W	M/C
NRW Sighting 1 Adult/1 calf 32°27N 80°12W	30° 59.2	81°16.5W	M/C
– Sea whip, gravel, seaweed, shells cement	30° 46.7	81°15.6W	M/C
	30° 32.8	81°08.4W	M/C
	30° 17.5	81°09.4W	M/C

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Tt	1	0945 30°42.6N 81°16.9W fluking
Tt	1-2	1546 30°42.68N 81°22.72W

Observers on duty Momson / Briga