ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 7 / 95 Loads: 1-9

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY w/ SOME RAIN, W WIND 5-10kts, SEA 1-3', AIR TEMP 67-75°F

Range of H_2O Temperature: Surface 70°F (5' below) Below Mid-Depth

Condition of all screening apparatus: 100% INFLOW SCREENING IN WORKING ORDER. THOUGH NOT REQUIRED, 100% OVERFLOW SCREENING IS IN PLACE. HINGED SOLID DEFLECTORS IN PLACE ON BOTH DRAGHEADS.

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

Comments (type of material being dredged, biological specimens, etc.): OBSERVER ONBOARD AT 1200. 50% COVERAGE - OBSERVER WITNESSED LOADS 1-5

MATERIAL BEING DREDGED CONSISTS OF SAND WITH VERY LITTLE BIOLOGICAL MATERIAL. SCREENED INFLOW SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, A SKATE AND SOME ROCKS.

MOST OF THE DISCHARGE TAKES PLACE IN THE TWO FORE BOXES, LEAVING THE TWO AFT BOXES LITTLE USED.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 8 / 95 Loads: 10-24

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY → CLEAR, NNW WIND 5-15 kt, SEAS 1-3', 61-69°F AIR

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: ALL SCREENING EQUIPMENT IN WORKING-ORDER.

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 10-13 AND 18-20.

MATERIAL CONSISTS OF SAND WITH MINIMAL ACCUMULATION OF DEBRIS. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS AND STARGAZER FISH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 9 / 95 Loads: 25-41

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, N WIND 5-10kt → S WIND 5kt, SEA CALM, 60-69°F AIR

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: 100% INFLOW SCREENING IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 25-29 AND 33-37.

MATERIAL CONSISTS OF SAND WITH MINIMAL ACCUMULATION OF DEBRIS IN DISCHARGE BOXES. BIOLOGICAL SAMPLES INCLUDE MOSTLY HORSESHOE CRABS, WHELKS AND SKATES. TRACES OF CLAY WERE FOUND IN THE PORT DRAGHEAD FOLLOWING LOAD 37.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 10 / 95 Loads: 42 - 57

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, SE WIND 7-10 KT → N WIND 5 KT, SEA CALM, 62-72°F AIR

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 42-45 AND 49-53.

STILL DIGGING SAND WITH VERY LITTLE DEBRIS COLLECTING IN DISCHARGE BOXES; SAMPLES INCLUDE HORSESHOE CRABS (ABOUT 5-10 per LOAD per BOX), WHELKS (ABOUT 5 per LOAD per BOX), SKATES, ROCKS AND TRASH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 11 / 95 Loads: 58 - 72

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, SE → NW WIND 5-10 kt, SEA CALM, 63-68°F AIR

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 58-61 AND 65-68.

DIGGING SAND WITH LITTLE BIOLOGICAL MATERIAL; SOME HORSESHOE CRABS, WHELKS AND SKATES. LOADS 61-72 WERE DUG USING THE STBD DRAGARM ONLY (PORT ARM UNDER REPAIR).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 12 / 95 Loads: 73-87

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, NW WIND 5-10 kt, SEA CALM, 64-74°F AIR TEMP.

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 73-76 AND 80-83.

ALL LOADS DUG USING STBD ARM ONLY - PORT ARM STILL UNDER REPAIR.
MATERIAL CONSISTS OF SAND WITH LITTLE BIOLOGICAL MATERIAL.
SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES AND A SMALL FISH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 13 / 95 Loads: 88-99

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, N→NW 5-10 KT WIND, SEA CALM, 63-77°F AIR TEMP

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 88-91 AND 95-98

ALL LOADS DUG USING STBD ARM ONLY. MATERIAL CONSISTS OF SAND WITH LITTLE ACCUMULATION OF DEBRIS IN DISCHARGE BOXES. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES, SPIDER CRAB AND CLAM SHELL.

DREDGE SUGAR ISLAND LEFT THE DIG AREA FOLLOWING LOAD 99 IN ORDER TO REFUEL UP RIVER (APPROX. 0100 ON 10/14).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

WEEKLY SUMMARY

Dates: 10 / 7 / 95 - 10 / 13 / 95 Loads: 1-99

Range of H_2O Temperature: Surface 70°F (5' BELOW) Below Mid-Depth

Area(s) Worked: STATIONS 4690+00 THRU 4760+00

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

Comments: OBSERVER ONBOARD DREDGE SUGAR ISLAND AT 1200 ON 10/7. 100% INFLOW SCREENING IN WORKING ORDER. THOUGH NOT REQUIRED, 100% OVERFLOW SCREENING IS IN PLACE. HINGED SOLID DEFLECTORS ARE IN PLACE ON BOTH DRAGHEADS.

50% COVERAGE - OBSERVER INSPECTED LOADS 1-9 ON DAY 1 AND THEREAFTER THOSE BETWEEN THE HOURS OF 6-12.

MATERIAL BEING DREDGED CONSISTS OF SAND WITH VERY LITTLE DEBRIS. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES, STARGAZER FISH, UNIDENTIFIED SMALL FISH, SPIDER CRAB AND CLAM SHELL. SOME TRACES OF CLAY FOUND IN DRAGHEAD ON 10/9. LOADS 61-99 WERE DUG USING THE STBD DRAGARM ONLY WHILE THE PORT ARM WAS UNDER REPAIR. MOST DISCHARGE TAKING PLACE THRU THE TWO FORE BOXES. FOLLOWING LOAD 99 ON 10/13, THE DREDGE LEFT THE DIG SITE IN ORDER TO REFUEL.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observers On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 14 / 95 Loads: 100 - 104

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY, NW WIND 15-20 KT, SEA 4-6', 60°F AIR TEMP.

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER.

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 100 AND 104.

DREDGE AT DOCK REFUELING MOST OF THE DAY; BACK ON SITE DIGGING AT APPROX. 2200 (LOAD 100).
STILL DIGGING WITH THE STBD ARM ONLY. BIOLOGICAL SAMPLES WERE MINIMAL AND INCLUDED HORSESHOE CRABS, WHELKS AND SKATES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 15 / 95 Loads: 105-120

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY, NW WIND 20 Kt, SEA 4-6', 59°F AIR TEMP.

Range of H_2O Temperature: Surface 70°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 105-107 AND 112-116.

DUG WITH STBD ARM ONLY UNTIL LOAD 112 WHEN BOTH ARMS WERE USED AGAIN.

DIGGING SAND WITH LITTLE BIOLOGICAL MATERIAL; HORSESHOE CRABS, WHELKS AND SKATES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 16 / 95 Loads: 121-136

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, SW → NW WIND 20 kt, SEA 6'-3', 55-61°F AIR

Range of H_2O Temperature: Surface _____ Below Mid-Depth _____

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 121-124 AND 129-132.

MATERIAL CONSISTS OF SAND WITH ALMOST NO BIOLOGICAL MATTER - A FEW HORSESHOE CRABS AND WHELK SHELLS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 17 / 95 Loads: 137-153

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, NW → SW WIND 15 kt, SEA 1', 60°F AIR TEMP.

Range of H_2O Temperature: Surface 77°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 137-140 AND 145-148.

MATERIAL CONSISTS OF SAND WITH LITTLE BIOLOGICAL MATTER; HORSESHOE CRABS, WHELKS AND SKATES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 18 / 95 Loads: 154-169

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, SW WIND 10-15 kt, SEA CALM, 58° AIR TEMP.

Range of H_2O Temperature: Surface 77°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 154-157, 161-164 AND 169.

SOME CLAY FOUND IN THE DRAGHEADS FOLLOWING LOADS 162 AND 163. MATERIAL CONSISTS OF SAND WITH LITTLE ACCUMULATION OF DEBRIS IN DISCHARGE BOXES. SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES, SPOTTED FLOUNDER AND PUFFERFISH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 19 / 95 Loads: 170 - 185

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR → CLOUDY, SW WIND 5-10 KT, SEA 1', 60-68°F AIR

Range of H_2O Temperature: Surface 77°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 170-173 AND 178-181

MATERIAL CONSISTS OF SAND WITH ALMOST NO BIOLOGICAL MATTER.
SAMPLES INCLUDE A FEW HORSESHOE CRABS AND WHELKS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 20 / 95 Loads: 186-201

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY, SE WIND 5-25 kt, SEA 2-6', 64-68°F AIR

Range of H_2O Temperature: Surface 77°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 186-189 AND 194-197

DIGGING SAND WITH VERY LITTLE BIOLOGICAL MATERIAL - SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES AND FLOUNDER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

WEEKLY SUMMARY

Dates: 10 / 14 / 95 - 10 / 20 / 95 Loads: 100 - 201

Range of H_2O Temperature: Surface 70 - 77°F Below Mid-Depth

Area(s) Worked: STATIONS 4690+00 THRU 4760+00

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

Comments: DREDGE BACK ON SITE AND DIGGING AT 2200 ON 10/14 AFTER REFUELING MOST OF THE DAY.

DUG WITH STBD ARM ONLY FOR LOADS 100-111. BEGAN USING BOTH DRAGARMS WITH LOAD 112.

MATERIAL CONSISTS OF SAND WITH VERY LITTLE DEBRIS. SOME TRACES OF CLAY FOUND IN DRAGHEADS ON 10/18. BIOLOGICAL SAMPLES FOUND IN FORE DISCHARGE BOXES INCLUDE HORSESHOE CRABS, WHELKS, SKATES, SPOTTED FLOUNDER AND PUFFERFISH. AFTER HIGH WINDS ON 10/16 THE WATER TEMPERATURE INCREASED TO 77°F.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observers On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 21 / 95 Loads: 202 - 217

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: THUNDERSTORM → CLEAR, SE → NW WIND 22-27 kt, SEA 6'-4', 70-53°F AIR

Range of H_2O Temperature: Surface 77°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 202-205 AND 210-213.

MATERIAL CONSISTS OF SAND WITH LITTLE BIOLOGICAL MATTER. SAMPLES INCLUDE HORSESHOE CRABS, WHELKS AND SKATES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 22 / 95 Loads: 218-232

Area(s) Worked: STATIONS 4690+00 THRU 4760+00

Weather Conditions: CLEAR, W WIND 10-15 kt, SEA 1-2', 55-63°F AIR TEMP.

Range of H_2O Temperature: Surface 77°F Below Mid-Depth

Condition of all screening apparatus: 100% INFLOW SCREENING IN WORKING ORDER.

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 218-221 AND 226-229.

MATERIAL CONSISTS OF SAND WITH LITTLE BIOLOGICAL MATTER. SAMPLES INCLUDE MOSTLY HORSESHOE CRABS WITH SOME WHELKS, SKATES AND SPIDER CRABS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 23 / 95 Loads: 233 - 248

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, S→SW WIND 5-15 KTS, SEA 1-2', 58-69°F AIR TEMP.

Range of H_2O Temperature: Surface 77°F Below Mid-Depth

Condition of all screening apparatus: ALL SCREENING IN WORKING ORDER

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

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

50% OBSERVER COVERAGE - INSPECTED LOADS 233-236 AND 241-244.

MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS ACCUMULATING IN FORE BOXES. AFT DISCHARGE BOXES STILL IN LITTLE OR NO USE AND REQUIRE NO MAINTENANCE. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES AND FLOUNDER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 24 / 95 Loads: 249 - 261

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, SW WIND 10-20 kt, SEA 2-5', 60°-70°F AIR TEMP.

Range of H_2O Temperature: Surface 80°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 249-252 AND 257-260.

MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS ACCUMULATING IN FORE DISCHARGE BOXES. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELK, SKATES AND A PUFFERFISH.

DREDGE LEFT SITE FOR REFUELING AROUND 0100 ON 10/25, AFTER LOAD 261.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 25 / 95 Loads: 262 - 267

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, N WIND 5-10 kt, SEA 2-3', 50°F

Range of H_2O Temperature: Surface _____ Below Mid-Depth _____

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

DREDGE AT DOCK FOR MOST OF THE DAY REFUELING. BACK ON SITE AND DIGGING LOAD 262 AT 2115.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 26 / 95 Loads: 268 - 282

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: PARTLY CLOUDY, N→SW WIND 5-10 kts, SEA 3'-CALM, 50°'S AIR

Range of H_2O Temperature: Surface 65°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 270-278.

MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS AND SKATES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 27 / 95 Loads: 283 - - 298

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY, S WIND 10-15 → W WIND 15-20 kt, SEA 2-5'

Range of H_2O Temperature: Surface 65°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 283-286, 290-293 AND 298.

MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS AND SKATES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

WEEKLY SUMMARY

Dates: 10 / 21 / 95 - 10 / 27 / 95 Loads: 202 - 298

Range of H_2O Temperature: Surface 80° → 65° F Below Mid-Depth

Area(s) Worked: STATIONS 4690+00 THRU 4760+00

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

Comments:

50% COVERAGE - OBSERVER INSPECTED LOADS BETWEEN THE HOURS OF 6-12 ON MOST DAYS WITH SOME AFTERNOON HOURS ON 10/26 (49 LOADS OUT OF 95 INSPECTED)

DREDGE MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS ACCUMULATING IN FORE DISCHARGE BOXES. AFT BOXES ARE SELDOM USED AND REQUIRE ALMOST NO MAINTENANCE. ALL INFLOW SCREENING IS IN WORKING ORDER. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES, SPIDER CRABS, FLOUNDER AND PUFFERFISH. ROCKS ARE ALSO FOUND IN DISCHARGE BOXES AFTER EVERY LOAD.

DREDGE LEFT DIG SITE FOR REFUELING AT 0100 ON 10/25 AFTER LOAD 261 AND WAS BACK DIGGING AT 2115 THE SAME DAY

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observers On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 28 / 95 Loads: 299 - 314

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY → CLEAR, W → SE WIND 15-20 kt, SEA 2-4', 56-64°F

Range of H_2O Temperature: Surface 67°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

50% COVERAGE - OBSERVER INSPECTED LOADS 298-302 AND 306-310.
* REVERSED CLOCK 1 HR DUE TO DAYLIGHT SAVINGS.

MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS. BIOLOGICAL SAMPLES INCLUDED HORSESHOE CRABS AND WHELKS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 29 / 95 Loads: 315 - 331

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLEAR, NW WIND 15-25 kt, SEA 2-5', 51-60°F AIR TEMP

Range of H_2O Temperature: Surface 64°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

OBSERVER INSPECTED LOADS 315-320, 323-326 AND 331.

MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS. IN ADDITION TO ROCK SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES AND A JELLYFISH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS REPORTED			

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 30 / 95 Loads: 332-347

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: PARTLY CLOUDY, NW WIND 15-25 kt, SEA 2-4

Range of H_2O Temperature: Surface 75°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

OBSERVER INSPECTED LOADS 332-343 AND 347 (13 OUT OF 16 LOADS)

MATERIAL CONSISTS OF SAND WITH ROCK. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRABS, WHELKS, SKATES AND SPIDER CRABS. VERY LITTLE DEBRIS ACCUMULATING IN DISCHARGE BOXES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 10 / 31 / 95 Loads: 348 - 367

Area(s) Worked: STATIONS 4690+00 → 4760+00

Weather Conditions: CLOUDY, NW WIND 20 kt, SEA 2-3'

Range of H_2O Temperature: Surface 75°F Below Mid-Depth

Condition of all screening apparatus: ALL IN WORKING ORDER

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

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

OBSERVER INSPECTED LOAD 348. (ADDITIONAL COVERAGE WAS PROVIDED ON 10/29 AND 10/30 TO COMPENSATE FOR 50% COVERAGE 10/31)

MATERIAL CONSISTS OF SAND WITH LITTLE DEBRIS. BIOLOGICAL SAMPLES INCLUDE HORSESHOE CRAB, WHELK AND SKATES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS	REPORTED		

Observer(s) On Duty: JENNIFER GATZKE / Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 1 / 95 Loads: 368 thru 375

Area(s) Worked: Stations 469 to 476

Weather Conditions: Overcast; Seas, 1-2'; Winds, 0-10 knts WNW; Air Temp 58-63°F

Range of H_2O Temperature: Surface 63° F Below Mid-Depth

Condition of all screening apparatus: Screening is in good condition. Presently only using forward discharge boxes.

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

Comments (type of material being dredged, biological specimens, etc.): New observer (J. Ferris) on board vessel @ 1015 hrs. Everything was in order.

No change in materials being collected in discharge boxes. This included metal, rock, and biological specimens of horseshoe crabs; skates; large shells, and a few other fish.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings to report			

Observer(s) On Duty: Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 2 / 95 Loads: 376 thru 392

Area(s) Worked: Stations 469 to 476

Weather Conditions: Overcast, occasional rain; Seas 1-3'; Winds, S/SW 0-15 knts

Range of H_2O Temperature: Surface 62°F Below Mid-Depth

Condition of all screening apparatus: Screening holding up well. Dragheads and deflectors in good shape.

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

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

No unusual specimens to report. Quantities of rock and biological materials low. Material in hopper continues to be a silt-sand material.

Please note: The surface water temperatures that have previously been reported have been too high. Actual surface water (0-5 feet) temperatures are in the low 60°F range. Procedures have been altered/corrected to provide a more reliable value. JF

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings to report.			

Observer(s) On Duty: JR Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 3 / 95 Loads: 393 - 400

Area(s) Worked: Stations 469 - 476 and 357 - 359

Weather Conditions: Overcast; Occasional rain; Seas 1-4'; Winds 0-30 knts SW/NW

Range of H_2O Temperature: Surface 62° F Below Mid-Depth

Condition of all screening apparatus: Screens and boxes are all in good condition. Deflectors are fine, showing a little wear.

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

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

Juvenile loggerhead turtle (Caretta caretta) found on wash deck beneath starboard draghead. Extensive damage to rear quarter of turtle. Specimen placed in freezer on-board vessel. Incident report attached @ several photos.

Relocated to a new dredging area further up channel. First load in new area (Stations 357 - 359) was # 400.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Ø			

Observer(s) On Duty: Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 4/5/95* Loads: 401 - 408

Area(s) Worked: Stations 357 - 359 (center 500')

Weather Conditions: P. Cloudy; Seas 2-5'; Winds, 15-30 knts NW

Range of H_2O Temperature: Surface 58 °F Below Mid-Depth

Condition of all screening apparatus: No change, still complete and in good condition.

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

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

Materials in this new dredging area is primarily large rocks, gravel and shells. Very few biological materials found in discharge boxes, including shells, skates, and horseshoe crabs. Very few of the larger rocks have any growth (ie, barnacles, algae) on them, indicating that they haven't been there long. These are also unusual materials for this area of the marine environment.

* Includes two loads from 11/5/95. Observer off of Sugar Island following load # 408.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Ø			

Observer(s) On Duty: De Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

WEEKLY SUMMARY

Dates: 10 / 28 / 95 - 11 / 5 / 95 Loads: 299 - 408

Range of H_2O Temperature: Surface 65°F - 58°F Below Mid-Depth

Area(s) Worked: Stations 469 to 476 and 357 - 359.

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

Comments:

At least 50% coverage has been provided during this dredging period. One juvenille loggerhead turtle was taken on Friday, November 3 1995. The turtle was found beneath the draghead on starboard side following load # 399 working between stations 469 - 476. Length of carapace was 20" wide by 21" long, weighing approximately 30 lbs.

Materials found in the discharge boxes included mostly horseshoe crabs, shells and a few fish in area 469 - 476. Very few biological specimens are being found in boxes in the work area between stations 357 and 359. Materials here are primarily rock and shells. Somewhat unusual materials for this type of marine environment.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Ø			

Observers On Duty: Jennifer Gatzke and Joe Ferris

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 9 / 95 Loads: 410* - 414

Area(s) Worked: Stations 3570+00 — 3590+00

Weather Conditions: Clear - Partly cloudy, Winds S 5-14 Kt., Seas calm-1', 36-40°F

Range of H_2O Temperature: Surface 66°F 1410 Below Mid-Depth

Condition of all screening apparatus: All in working order

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

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

50% coverage, loads 413 - 414 observed.
Dredge resumed work at 2007 with load #410 on 11/8.
Observer arrived at 1200 on 11/9, worked 12-12. Regular observation will be 6-12. All screening is in good shape as are deflectors.
Accumulation of rock and sand material was moderate to heavy and required one opening of the fore boxes during load 413. Samples included rocks, shell, wood, metal, fire hose and horseshoe crabs.
Turtle taken on 11/3 was disposed at the dumpsite during pumpout for load #413. The Corps of Engineers did not want to bring it to shore.

* Report includes loads since returning to work.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No Sightings		

Observer(s) On Duty: KATHRYN STEPHENSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 10 / 95 Loads: 415 - 420

Area(s) Worked: Stations 3570+00 - 3590+00

Weather Conditions: Clear-cloudy, Seas 2', Wind S-SSW 7-15 Kt, 43°F-72°F

Range of H_2O Temperature: Surface 105°F Below Mid-Depth

Condition of all screening apparatus: All screening in good condition

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

Comments (type of material being dredged, biological specimens, etc.): 50% coverage, loads 416 - 419 observed. Material dredged was sand with rock and shell. Accumulation was moderate to heavy, leading to a request that forward boxes be left open when observer is off duty (load #420). Samples include rocks, sand, shell, line, skate, horseshoe crabs, wood, clay and wire.
Brandywine dumpsite was used for loads 416-418 due to low tide.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No Sightings		

Observer(s) On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 11 / 95 Loads: 421 - 423

Area(s) Worked: Stations 3570+00 - 3590+00

Weather Conditions: Partly cloudy - cloudy, rain, seas 1-6', winds S-SE 15-50+ kt

Range of H_2O Temperature: Surface 68°F 0920 Below Mid-Depth AIR TEMP: 53-56°F

Condition of all screening apparatus: All Screens in working order.

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

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

50% coverage 421 observed. Observer was on duty for load #423, but couldnt check boxes or drags due to high winds. Material dredged was sand rock and shell with moderate accumulation. Samples included wire, rocks, metal, rocks shell, wood, horseshoecrabs and sand.
Brandywine dumpsite was used for load # 423.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No	Sightings	

Observer(s) On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 12 / 95 Loads: 424 - 428

Area(s) Worked: Stations 3570+00 - 3590+00

Weather Conditions: Partly cloudy - cloudy, Seas 1-3', Winds variable - SW 10-30 Kt

Range of H_2O Temperature: Surface 56°F 1045 Below Mid-Depth AIR TEMP 36-49°F

Condition of all screening apparatus: All screens in working order

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

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

50% Coverage, loads 424, 425, 427 observed. Accumulation of sand, rock and shell was moderate to heavy. Boxes had to be opened once while digging load # 425 (forward only). Brandywine dumpsite used for load # 427. Samples included rocks, shell, sand, horseshoe crabs and chain.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No	Sightings	

Observer(s) On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

WEEKLY SUMMARY

Dates: 11 / 6 / 95 - 11 / 12 / 95 Loads: 410 - 428

Range of H_2O Temperature: Surface 68 - 56 °F Below Mid-Depth

Area(s) Worked: Stations 3570+00 - 3590+00

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

Comments: 50% coverage. 10 of 18 loads observed.
11/6 - 11/8 until 2007 Dredge was down for repairs. Observer arrived 11/9 at 1200. All screening and deflectors are in working order. Material dredged is sand, shell and rock. Accumulation is moderate to heavy required the opening of forward boxes while digging loads # 413, 425. Due to rocks, it was requested that forward boxes be left open while observer is off duty.
Brandywine dumpsite is used for loads near low tide.
Turtle taken on 11/3 was disposed of on 11/9 while pumping out load # 413, ok from Corps of Engineers.
Unable to check load # 423 on 11/11 due to 50+ kt winds.
Samples included some trash, rocks, shell, sand, horseshoe crabs and a skate.
According to specs, coverage will end 11/16 at 8 AM.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
		No Sightings	

Observers On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 13 /95 Loads: 429 - 433

Area(s) Worked: Stations 3570+00 - 3590+00

Weather Conditions: Partly cloudy - cloudy, Seas calm-1', Wind SE-E-NE 5-10KT

Range of H_2O Temperature: Surface MID 50°F 0735', 55°F 0950 Below Mid-Depth AIR TEMP: 34 - 41°F

Condition of all screening apparatus: All screening in working condition

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

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

50% coverage 429, 430, 432 observed. Accumulation was moderate to heavy. Material dredged was sand, rock and shell. Samples included rocks, shell, sand, wood, metal and horseshoe crabs.

Brandywine dumpsite used for load # 429 and 432.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
		No Sightings	

Observer(s) On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 14 / 95 Loads: 434 - 438

Area(s) Worked: Stations 3570+00 - 3590+00

Weather Conditions: Cloudy, rain, Seas 1-3', Wind NE-NW 15-30kt, Air 40-44°F

Range of H_2O Temperature: Surface 54°F 0820 Below Mid-Depth 54°F 0825

Condition of all screening apparatus: All screens in working condition

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

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

50% Coverage, loads 434 - 437 observed. Loads 434 and 436 had no sample (doors open). Accumulation was moderate and contained sand, shell and rocks. Biological samples included shell, wood and horseshoe crabs. Water temperature is accurate and has reached a turtle prohibitive level. Surface temp. is taken over the side at the dumpsite and below mid-depth is taken from the seawater inflow pipe with a full load.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No Sightings		

Observer(s) On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 15 / 95 Loads: 439 – 442

Area(s) Worked: Stations 3570+00 - 3590+00

Weather Conditions: Clear-Cloudy, Seas 2', Wind SW-W 25-30 Kt., 33-38°F

Range of H_2O Temperature: Surface 52°F 0940 Below Mid-Depth 49°F 0945

Condition of all screening apparatus: All screens in working order

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

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

50% coverage, observed loads 439, 441, 442.
Material dredged was sand, rock and shell. Samples include some trash, shell, sand, rock and horseshoe crabs.
Accumulation was heavy and required one opening of forward boxes during load # 439.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No Sightings		

Observer(s) On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

DAILY REPORT

Date: 11 / 16 / 95 Loads: 443

Area(s) Worked: Stations 3570+00 - 3590+00

Weather Conditions: Partly cloudy, Seas 1', Wind NW 10-15 Kt,

Range of H_2O Temperature: Surface 47°F 0625 Below Mid-Depth 49°F 0620

Condition of all screening apparatus: All Screens in working order

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

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

Last loads of coverage. Material dredged was sand, rock and shell. Samples include sand, trash, rock, shell.

Load 443 had no sample, boxes open.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	No Sightings		

Observer(s) On Duty: Kathryn Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *SUGAR ISLAND* / NATCO

Maintenance Dredging - 1995 - Delaware River Entrance Channel

USACE, Philadelphia District

WEEKLY SUMMARY

Dates: 11/13/95 - 11/16/95 Loads: 429 - 443

Range of H_2O Temperature: Surface 47-55°F Below Mid-Depth 49-54°F

Area(s) Worked: Stations 3570+00 - 3590+00

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

Comments: 50% Coverage, 11 of 14 loads observed. Material dredged was sand, rock and shell. Accumulation was moderate to heavy, requiring one opening of forward boxes while digging load #439.
Brandywine dumpsite used for loads #429 and 432.
Samples included some trash, rocks, shell, sand and horseshoe crabs.
Water temperatures are accurate, taken manually and from sea water inflow pipe, and have reached a turtle prohibitive level.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
		No Sightings	

Observers On Duty: Kathryn Stephenson