

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Thursday, May 5, 2022 9:15 AM
To: incidental.take@noaa.gov
Cc: Neilan, Brian; EndangeredSpecies Resource
Subject: [External_Sender] PSEG Bottom Trawl Sampling - Incidental Take Report - 2 Sturgeon 05/04/2022
Attachments: Sturgeon Incidental Take Report for 05-04-2022.pdf; Sturgeon Incidental Take Report for 05-04-2022 #2.pdf

Attached are the Incidental Take Reports and Data Collection Forms for a live Atlantic sturgeon and a live shortnose sturgeon collected on 05/04/2022 during routine bottom trawl sampling in the Delaware Estuary. Both sturgeon were in good condition and quickly examined and released. The bottom trawl monitoring program is a requirement of Salem Generating Station NJPDES Permit No. NJ0005622 and incidental takes are authorized under Biological Opinion NER-2010-6581.

Thanks, and please let me know if you have any questions or need additional information.

Richard Cary
Environmental Compliance & Program Manager
PSEG Nuclear Environmental Affairs
856-339-1487

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Hearing Identifier: NRR_DRMA
Email Number: 1626

Mail Envelope Properties (0a4c92ac51ee4d2dbcf8193cc3d2e130)

Subject: [External_Sender] PSEG Bottom Trawl Sampling - Incidental Take Report - 2
Sturgeon 05/04/2022
Sent Date: 5/5/2022 9:15:07 AM
Received Date: 5/5/2022 9:15:45 AM
From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:

"Neilan, Brian" <Brian.Neilan@dep.nj.gov>

Tracking Status: None

"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>

Tracking Status: None

"incidental.take@noaa.gov" <incidental.take@noaa.gov>

Tracking Status: None

Post Office: pseg.com

Files	Size	Date & Time
MESSAGE	1331	5/5/2022 9:15:45 AM
Sturgeon Incidental Take Report for 05-04-2022.pdf	385817	
Sturgeon Incidental Take Report for 05-04-2022 #2.pdf	381425	

Options

Priority: Normal

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Appendix C, Part 2A (Sturgeon)

Photographs should be taken and the following information should be collected from all sturgeon (alive and dead). Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt. You must also complete and submit the "Sturgeon Data Collection Form"

Observer's full name: Liia Carpenter (Environmental Consulting Services, Inc. (ECSI))

Reporter's full name: Liia Carpenter

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: Baywide Bottom Trawl: Cell #789. LAT 39.744517° / LON -75.476950°

Date animal observed: 05/04/2022 Time animal observed: 10:30 AM

Date animal collected: 05/04/2022 Time animal collected: 10:30 AM

Environmental conditions at time of observation (i.e., tidal stage, weather):

Air temp. – 11.0°C; sal. – 0.1 ppt; wind – SE; sky – fog; wave – slight; tide – Ebb slack

If removed from intakes (trash racks or traveling screens):

Date and time of last inspection of screen: NA

Water temperature (°C) at site and time of observation: 13.7 °C

Number of pumps operating at time of observation: NA

Average percent of power generating capacity achieved per unit at time of observation: NA

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: NA

STURGEON DATA COLLECTION FORM

For use in documenting sturgeon injury or mortality incidental to a federal action

OBSERVER'S CONTACT INFORMATION

Name: First Liia Last Carpenter
Agency Affiliation PSEG subcontractor Email LCarpenter@ecsi-del.com
Address 100 South Cass Street, Middletown, DE 19709
Area code/Phone number (302) 378-9881 (Environmental Consulting Services, Inc.)

SEC 7 UNIQUE IDENTIFIER (PCTS No. Assigned by NMFS)

DATE REPORTED:
Month 5 Day 04 Year 2022
DATE EXAMINED:
Month 5 Day 04 Year 2022

SPECIES: (check one)

- shortnose sturgeon
 Atlantic sturgeon
 Unidentified *Acipenser* species
Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.

LOCATION FOUND: Offshore (Atlantic or Gulf beach) Inshore (bay, river, sound, inlet, etc)
River/Body of Water Delaware Bay City Penns Grove State NJ
Descriptive location (be specific) In the Delaware River, 0.47 mi northwest of the NJ shoreline at Penns Grove, and 1.10 mi east of Edgemoor, DE.

Latitude 39.744517° (Dec. Degrees) Longitude -75.476950° (Dec. Degrees)

CARCASS CONDITION at time examined: (check one)

- 1 = Fresh dead
 2 = Moderately decomposed
 3 = Severely decomposed
 4 = Dried carcass
 5 = Skeletal, scutes & cartilage

SEX:

- Undetermined
 Female Male
How was sex determined?
 Necropsy
 Eggs/milt present when pressed
 Borescope

MEASUREMENTS:

	Circle unit
Fork length	<u>54.2 cm</u>
Total length	<u>60.9 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>3.9 cm</u>
Interorbital width (see reverse side)	<u>6.2 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>1.8 kg</u>

TAGS PRESENT? Examined for external tags including fin clips? Yes No Scanned for PIT tags? Yes No

Tag #

Tag Type

Location of tag on carcass

PIT #982126054430237

CARCASS DISPOSITION: (check one or more)

- 1 = Left where found
 2 = Buried
 3 = Collected for necropsy/salvage
 4 = Frozen for later examination
 5 = Other (describe) Specimen was alive and in very good condition at the time of collection. It was released back to the river after processing.

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

Sample

How preserved

Disposition (person, affiliation, use)

Pelvic fin clip

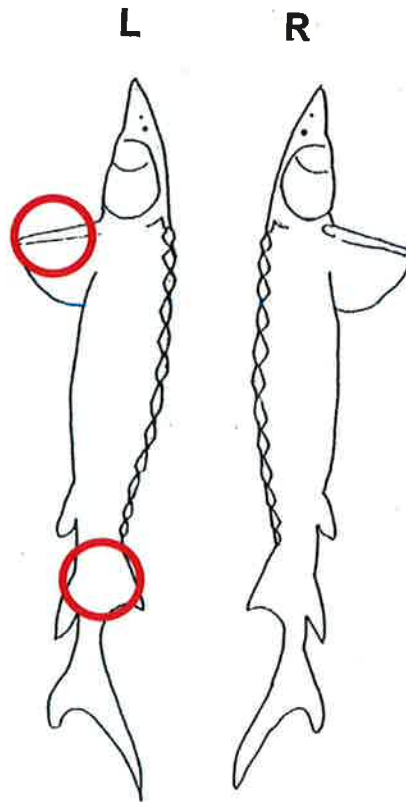
stored in non-denatured ethanol and then refrigerated.

Held at the office of ECSI for aggregated shipment to designated laboratory.

Comments: A live, Atlantic sturgeon was collected during routine PSEG Baywide Bottom Trawl sampling on 05/04/22. Positive identification was made by Environmental Consulting Services personnel upon observation at 10:30AM. The specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, however a PIT was indicated, identified as #982126054430237. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was immediately released back to the Delaware River at 10:43AM. The fin clip sample has been stored in refrigeration at the ECSI office, and it will be held for aggregated shipment to a designated laboratory. PSEG Estuary Enhancement personnel were contacted in regards to the incidental take.

Draw wounds, abnormalities, tag locations on diagram and briefly describe below

**Minor abrasion
observed along the edge
of the left pectoral fin**



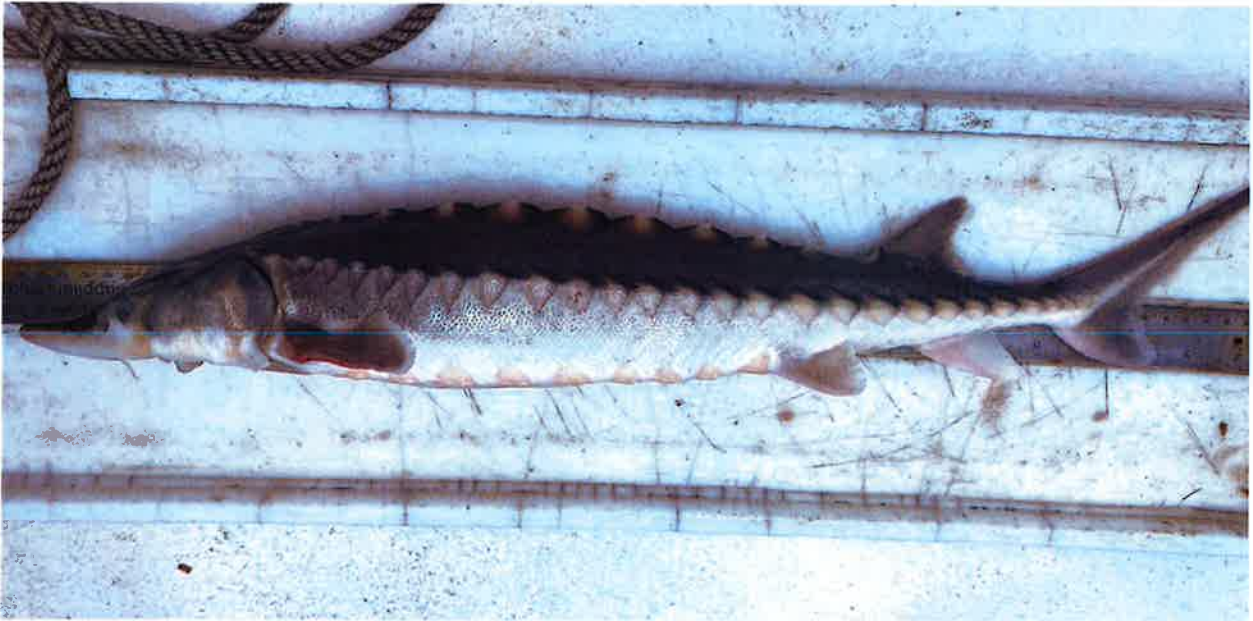
**Identified with PIT just
below dorsal fin**

Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. Specimen was alive and in very good condition at the time of collection except for a minor abrasion observed along the edge of the left pectoral fin. A PIT identified during examination was found to be located just below the dorsal fin, on the left side of the torso. The specimen was returned to the Delaware River immediately after processing, at 10:43AM.

Submit completed forms (within 24 hours of observation of fish): by e-mail to IncidentalTake@noaa.gov or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.

Data Access Policy: Upon written request, information submitted to National Marine Fisheries Service (NOAA Fisheries) on this form will be released to the requestor provided that the requestor credit the collector of the information and NOAA Fisheries. NOAA Fisheries will notify the collector that these data have been requested and the intent of their use.

Photographs



A left, lateral view, showing the size and condition of a live, Atlantic sturgeon (*Acipenser oxyrinchus*) collected on 5/04/22, and observed at 10:30AM during Baywide Bottom Trawl sampling. Baywide trawl cell: #789; LAT 39.744517°; LON -75.476950° [0.47 mi northwest of Penns Grove, NJ, and 1.10 mi east of Edgemoor, DE]. Collection was made on board the ECSI research vessel, Sea Regalis (05/04/2022).



A dorsal view of the specimen. No damage was observed, except for a minor abrasion on the edge of the left pectoral fin (05/04/2022).

Photographs



A close-up of the left pectoral fin, showing evidence of a minor abrasion along the fin edge. During processing, no external tags were observed however, a PIT tag was indicated, identified as tag # 982126054430237. A pelvic fin clip was also collected. After processing, the specimen was immediately released back to the Delaware River at approximately 10:43AM (05/04/2022).



A dorsal view of the head, showing the characteristic elongated rostrum (05/04/2022).

Appendix C, Part 2A (Sturgeon)

Photographs should be taken and the following information should be collected from all sturgeon (alive and dead). Please submit all necropsy results (including sex and stomach contents) to NMFS upon receipt. You must also complete and submit the "Sturgeon Data Collection Form"

Observer's full name: Lia Carpenter (Environmental Consulting Services, Inc. (ECSI))

Reporter's full name: Lia Carpenter

Species Identification : Shortnose sturgeon (Acipenser brevirostrum)

Site of Collection: Baywide Bottom Trawl: Cell #764. LAT 39.531550° / LON -75.554950°

Date animal observed: 05/04/2022 Time animal observed: 15:38

Date animal collected: 05/04/2022 Time animal collected: 15:38

Environmental conditions at time of observation (i.e., tidal stage, weather):

Air temp. - 16.0°C; sal. - 2.2 ppt; wind - E; sky - overcast; wave - calm; tide - Flood

If removed from intakes (trash racks or traveling screens):

Date and time of last inspection of screen: NA

Water temperature (°C) at site and time of observation: 14.6 °C

Number of pumps operating at time of observation: NA

Average percent of power generating capacity achieved per unit at time of observation: NA

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: NA

STURGEON DATA COLLECTION FORM

For use in documenting sturgeon injury or mortality incidental to a federal action

OBSERVER'S CONTACT INFORMATION

Name: First Liia Last Carpenter
Agency Affiliation PSEG subcontractor Email LCarpenter@ecsi-del.com
Address 100 South Cass Street, Middletown, DE 19709
Area code/Phone number (302) 378-9881 (Environmental Consulting Services, Inc.)

SEC 7 UNIQUE IDENTIFIER (PCTS No. Assigned by NMFS)

DATE REPORTED:

Month 5 Day 04 Year 2022

DATE EXAMINED:

Month 5 Day 04 Year 2022

SPECIES: (check one)

- shortnose sturgeon
 Atlantic sturgeon
 Unidentified *Acipenser* species
Check "Unidentified" if uncertain. See reverse side of this form for aid in identification.

LOCATION FOUND:

Offshore (Atlantic or Gulf beach) Inshore (bay, river, sound, inlet, etc)
River/Body of Water Delaware River City Port Penn State DE
Descriptive location (be specific) In the Delaware River, 1.40 mi northeast of Port Penn, DE, and 1.30 mi southwest of Elsinboro Point, NJ.

Latitude 39.531550° (Dec. Degrees) Longitude -75.554950° (Dec. Degrees)

CARCASS CONDITION at time examined: (check one)

- 1 = Fresh dead
 2 = Moderately decomposed
 3 = Severely decomposed
 4 = Dried carcass
 5 = Skeletal, scutes & cartilage

SEX:

- Undetermined
 Female Male
How was sex determined?
 Necropsy
 Eggs/milt present when pressed
 Borescope

MEASUREMENTS:

	Circle unit
Fork length	<u>68.1 cm</u>
Total length	<u>78.2 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>5.1 cm</u>
Interorbital width (see reverse side)	<u>6.2 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>2.5 kg</u>

TAGS PRESENT? Examined for external tags including fin clips? Yes No Scanned for PIT tags? Yes No

Tag #

Tag Type

Location of tag on carcass

PIT #989001004912504

CARCASS DISPOSITION: (check one or more)

- 1 = Left where found
 2 = Buried
 3 = Collected for necropsy/salvage
 4 = Frozen for later examination
 5 = Other (describe) Specimen was alive and in very good condition at the time of collection. It was released back to the river after processing.

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

Sample

How preserved

Disposition (person, affiliation, use)

Pelvic fin clip

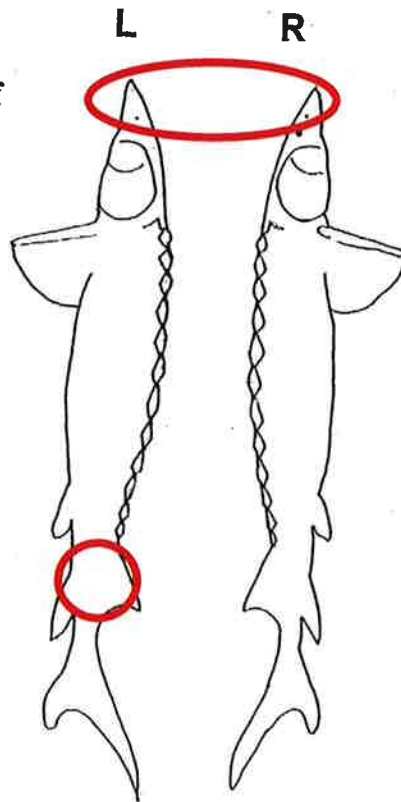
stored in non-denatured ethanol and then refrigerated.

Held at the office of ECSI for aggregated shipment to designated laboratory.

Comments: A live, Shortnose sturgeon was collected during routine PSEG Baywide Bottom Trawl sampling on 05/04/22. Positive identification was made by Environmental Consulting Services personnel upon observation at 15:38. The specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, however a PIT was indicated, identified as #989001004912504. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was immediately released back to the Delaware River at 15:49. The fin clip sample has been stored in refrigeration at the ECSI office, and it will be held for aggregated shipment to a designated laboratory. PSEG Estuary Enhancement personnel were contacted in regards to the incidental take.

Draw wounds, abnormalities, tag locations on diagram and briefly describe below

**Minor abrasion
observed along the tip of
the rostrum**



**Identified with PIT just
below dorsal fin**

Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. Specimen was alive and in very good condition at the time of collection except for a minor abrasion observed at the tip of the rostrum. A PIT identified during examination was found to be located just below the dorsal fin, on the left side of the torso. The specimen was returned to the Delaware River immediately after processing, at 15:49.

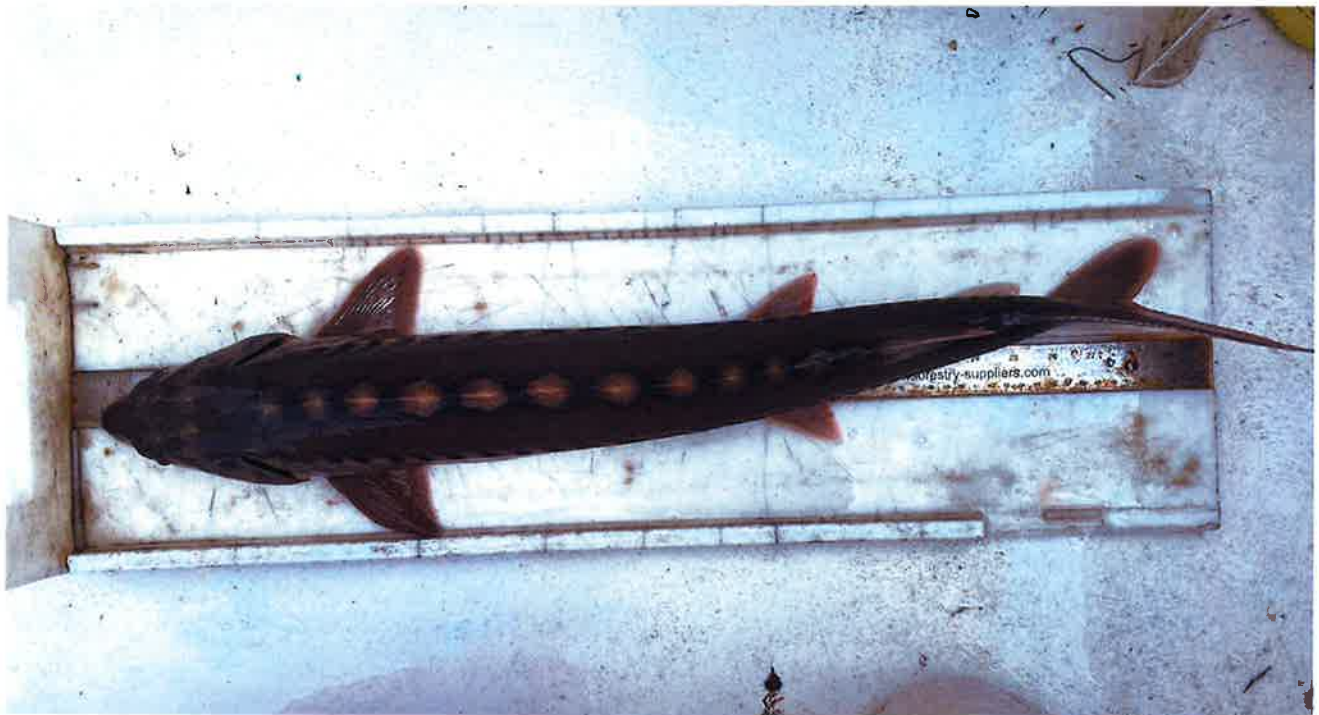
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Photographs



A left, lateral view, showing the size and condition of a live, Shortnose sturgeon (*Acipenser brevirostrum*) collected on 5/04/22, and observed at 15:38 during Baywide Bottom Trawl sampling. Baywide trawl cell: #764; LAT 39.531550°; LON -75.554950° [1.40 mi northeast of Port Penn, DE and 1.30 mi southwest of Elsinboro Point, NJ]. Collection was made on board the ECSI research vessel, Sea Regalis (05/04/2022).



A dorsal view of the specimen. No damage was observed, except for a minor abrasion at the tip of the rostrum (05/04/2022).

Photographs



A close-up of the head, showing evidence of a minor abrasion at the tip of the rostrum. During processing no external tags were observed however, a PIT tag was indicated, identified as tag # 989001004912504. A pelvic fin clip was also collected. After processing, the specimen was immediately released back to the Delaware River at approximately 15:49 (05/04/2022).



A ventral view of the head, showing the characteristic shortened rostrum and large mouth (05/04/2022).