

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Friday, October 7, 2022 9:06 AM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: Neilan, Brian
Subject: [External_Sender] PSEG Bottom Trawl Sampling - Incidental Take Report - Sturgeon 10/06/2022
Attachments: Sturgeon Incidental Take Report for 10-06-2022 #1.pdf; Sturgeon Incidental Take Report for 10-06-2022 #2.pdf

Attached are the Incidental Take Reports and Data Collection Forms for two live Atlantic sturgeon collected on 10/06/2022 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: 1799

Mail Envelope Properties (6bac9eda4d3d401bb9603514ecd907af)

Subject: [External_Sender] PSEG Bottom Trawl Sampling - Incidental Take Report -
Sturgeon 10/06/2022
Sent Date: 10/7/2022 9:05:53 AM
Received Date: 10/7/2022 9:06:17 AM
From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:

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

Tracking Status: None

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

Tracking Status: None

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

Tracking Status: None

Post Office: pseg.com

Files	Size	Date & Time
MESSAGE	1303	10/7/2022 9:06:17 AM
Sturgeon Incidental Take Report for 10-06-2022 #1.pdf	439090	
Sturgeon Incidental Take Report for 10-06-2022 #2.pdf	423508	

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: Audrey Ostroski (Environmental Consulting Services, Inc. (ECSI))

Reporter's full name: Audrey Ostroski

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: Baywide Bottom Trawl: Cell #789. LAT 39.740400° / LON -75.480817°

Date animal observed: 10/06/2022 Time animal observed: 11:26 AM

Date animal collected: 10/06/2022 Time animal collected: 11:45 AM

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

Air temp. - 21.0°C; sal. - 4.0 ppt; wind - N; sky - clear; wave - calm; tide - Ebb 1

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: 17.0 °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 **Audrey** Last **Ostroski**
Agency Affiliation **PSEG subcontractor** Email **aostroski@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 10 Day 06 Year 2022
DATE EXAMINED:
Month 10 Day 06 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 **Penns Grove State NJ**
Descriptive location (be specific) **In the Delaware River, 0.44 mi northwest of Penns Grove, NJ and 1.1 mi east of Edgemoor Power Generating Facility.**

Latitude **39.740400°** (Dec. Degrees) Longitude **-75.480817°** (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	76.0 cm
Total length	88.0 cm
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	6.0 cm
Interorbital width (see reverse side)	8.0 cm
Weight <input type="checkbox"/> actual <input type="checkbox"/> estimate	3.6 kg

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
None found		

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:

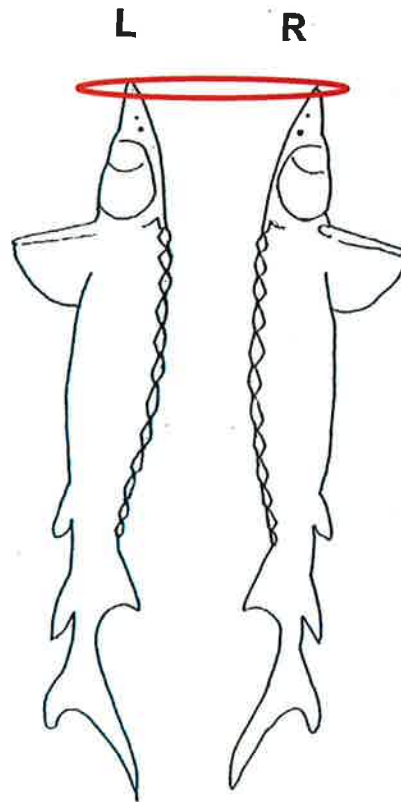
Photos/vid taken? Yes No
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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: One of two, live Atlantic sturgeon collected during routine PSEG Baywide Bottom Trawl sampling on 10/06/22. Positive identification was made by Environmental Consulting Services personnel upon observation at 11:26AM, and PSEG Nuclear Environmental Affairs personnel were contacted in regards to the incidental take. The specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tag was indicated. Therefore, PIT tagging procedures for placement of a tag were implemented. Specimen has been identified with tag #933000320184014. A pelvic fin clip was also collected for future DNA analysis. The fin clip has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory. Upon completion of processing, the specimen was immediately released back to the Delaware River at approximately 12:02PM.

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



A minor abrasion was observed at the anterior of the rostrum.

Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Except for a minor abrasion on the rostrum, the specimen was alive and in good condition at the time of collection. The specimen was returned to the Delaware River immediately after processing.**

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 right dorsolateral view, showing the size and condition of one of two live, Atlantic sturgeon (*Acipenser oxyrinchus*) collected on 10/06/22, and observed at 11:26AM during Baywide Bottom Trawl sampling. Baywide trawl cell: #789; LAT 39.740400°; LON -75.480817° [0.44 mi northwest of Penns Grove, NJ, and 1.1 mi east of Edgemoor Power Generating Facility]. Collection was made on board the ECSI research vessel, Sea Regalis (10/06/2022).



A left, dorsolateral view of the specimen (10/06/2022).

Photographs



A ventral view of the specimen (10/06/2022).



A dorsal view of the specimen (10/06/2022).

Photographs



A ventral view of the head, showing the characteristic small mouth and elongated rostrum (10/06/2022).



A close-up view of the anterior end of the rostrum, showing evidence of a minor abrasion (10/06/2022)

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: Audrey Ostroski (Environmental Consulting Services, Inc. (ECSI))

Reporter's full name: Audrey Ostroski

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: Baywide Bottom Trawl: Cell #789. LAT 39.740400° / LON -75.480817°

Date animal observed: 10/06/2022 Time animal observed: 11:26 AM

Date animal collected: 10/06/2022 Time animal collected: 11:55 AM

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

Air temp. – 21.0°C; sal. – 4.0 ppt; wind – N; sky – clear; wave – calm; tide – Ebb 1

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: 17.0 °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 Audrey Last Ostroski
Agency Affiliation PSEG subcontractor Email aostroski@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 10 Day 06 Year 2022
DATE EXAMINED:
Month 10 Day 06 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 Penns Grove State NJ
Descriptive location (be specific) In the Delaware River, 0.44 mi northwest of Penns Grove, NJ and 1.1 mi east of Edgemoor Power Generating Facility.

Latitude 39.740400° (Dec. Degrees) Longitude -75.480817° (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>54.1 cm</u>
Total length	<u>62.0 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>3.5 cm</u>
Interorbital width (see reverse side)	<u>5.0 cm</u>
Weight <input 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
<u>None found</u>		

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:

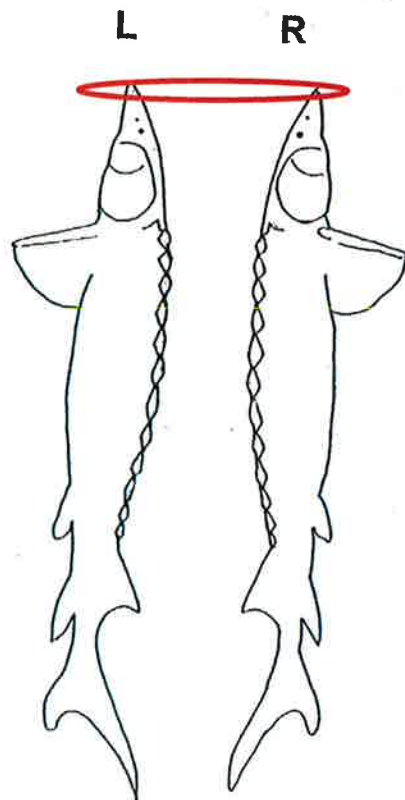
Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

Sample	How preserved	Disposition (person, affiliation, use)
<u>Pelvic fin clip</u>	<u>stored in non-denatured ethanol and then refrigerated</u>	<u>Held at the office of ECSI for aggregated shipment to designated laboratory</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Comments: The second of two, live Atlantic sturgeon collected during routine PSEG Baywide Bottom Trawl sampling on 10/06/22. Positive identification was made by Environmental Consulting Services personnel upon observation at 11:26AM, and PSEG Nuclear Environmental Affairs personnel were contacted in regards to the incidental take. The specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tag was indicated. Therefore, PIT tagging procedures for placement of a tag were implemented. Specimen has been identified with tag #933000220017826. A pelvic fin clip was also collected for future DNA analysis. The fin clip has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory. Upon completion of processing, the specimen was immediately released back to the Delaware River at approximately 12:04PM.

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



A minor abrasion was observed at the anterior of the rostrum.

Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Except for a very minor abrasion on the rostrum, the specimen was alive and in good condition at the time of collection. The specimen was returned to the Delaware River immediately after processing.**

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Photographs



A right dorsolateral view, showing the size and condition of a second, live Atlantic sturgeon (*Acipenser oxyrinchus*) collected on 10/06/22, and observed at 11:26AM during Baywide Bottom Trawl sampling. Baywide trawl cell: #789; LAT 39.740400°; LON -75.480817° [0.44 mi northwest of Penns Grove, NJ, and 1.1 mi east of Edgemoor Power Generating Facility]. Collection was made on board the ECSI research vessel, Sea Regalis (10/06/2022).



A left, dorsolateral view of the specimen (10/06/2022).

Photographs



A ventral view of the specimen (10/06/2022).



A dorsal view of the specimen (10/06/2022).

Photographs



A ventral view of the head, showing the characteristic small mouth and elongated rostrum (10/06/2022).



A close-up view of the anterior end of the rostrum, showing evidence of a minor abrasion (10/06/2022).