

From: Heun Jr, Ronald B. <Ronald.HeunJr@pseg.com>
Sent: Wednesday, January 10, 2024 9:36 AM
To: nmfs.gar.incidental-take@noaa.gov; EndangeredSpecies Resource
Cc: Heather.Corbett@dep.nj.gov; Shana.Fehring@dep.nj.gov;
Brian.Neilan@dep.nj.gov
Subject: [External_Sender] Salem Generating Station - Incidental Take Report - Two Atlantic Sturgeon 1/9/2024
Attachments: Sturgeon Incidental Take Report for 01-09-2024 #1.pdf; Sturgeon Incidental Take Report for 01-09-2024 #2.pdf

Attached are the Incidental Take Reports and Data Collection Forms for two deceased Atlantic sturgeon collected on 1/9/2024 from the Salem Generating Station during routine raking of the circulating water intake trash bars. The deceased specimens are being held for study pending direction from NOAA/NMFS. This incidental take is authorized under Biological Opinion GAR-2020-02842.

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

Ron Heun | Environmental Compliance and Program Manager
M. +1.717-917-7851
pseg.com

The information contained in this e-mail, including any attachment(s), is intended solely for use by the named addressee(s). If you are not the intended recipient, or a person designated as responsible for delivering such messages to the intended recipient, you are not authorized to disclose, copy, distribute or retain this message, in whole or in part, without written authorization from PSEG. This e-mail may contain proprietary, confidential or privileged information. If you have received this message in error, please notify the sender immediately. This notice is included in all e-mail messages leaving PSEG. Thank you for your cooperation.

Hearing Identifier: NRR_DRMA
Email Number: 2368

Mail Envelope Properties (d294b0b08d9d4a2bb928163b17dd3abc)

Subject: [External_Sender] Salem Generating Station - Incidental Take Report - Two Atlantic Sturgeon 192024
Sent Date: 1/10/2024 9:35:35 AM
Received Date: 1/10/2024 9:36:02 AM
From: Heun Jr, Ronald B.

Created By: Ronald.HeunJr@pseg.com

Recipients:

"Heather.Corbett@dep.nj.gov" <Heather.Corbett@dep.nj.gov>

Tracking Status: None

"Shana.Fehring@dep.nj.gov" <Shana.Fehring@dep.nj.gov>

Tracking Status: None

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

Tracking Status: None

"nmfs.gar.incidental-take@noaa.gov" <nmfs.gar.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	1309	1/10/2024 9:36:02 AM
Sturgeon Incidental Take Report for 01-09-2024 #1.pdf		401877
Sturgeon Incidental Take Report for 01-09-2024 #2.pdf		477710

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: Hannah Sarmir (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Hannah Sarmir

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, Intake 12B

Date animal observed: 01/09/2024 Time animal observed: 10:25 AM

Date animal collected: 01/09/2024 Time animal collected: 10:25 AM

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

Air temp. – 7.5°C; Sal. – 10.0 ppt; Wind –SE; sky – light rain; Wave – moderate; tide- E1 (94.5 ft.)

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

Date and time of last inspection of screen: 01/08/2024 at 22:36

Water temperature (°C) at site and time of observation: 6.5 °C

Number of pumps operating at time of observation: Unit 1: 5 circulators / Unit 2: 5 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 99.9 / Unit 2: 100.0

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 99.8 / Unit 2: 100.0

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Hannah Last Sarmir
Agency Affiliation PSEG subcontractor Email Hannah.Sarmir@pseg.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 01 Day 09 Year 2024

DATE EXAMINED:
Month 01 Day 09 Year 2024

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 Lower Alloways Creek State NJ
Descriptive location (be specific) Removed from Circulating Water Intake Structure (CWIS) trash racks, intake bay 12B, during routine trash rack cleaning at the Salem Generating Station, PSEG Nuclear LLC.
Latitude 39.460603° (Dec. Degrees) Longitude -75.536133° (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>74.4 cm</u>
Total length	<u>88.3 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>5.1 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>2.4 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).

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

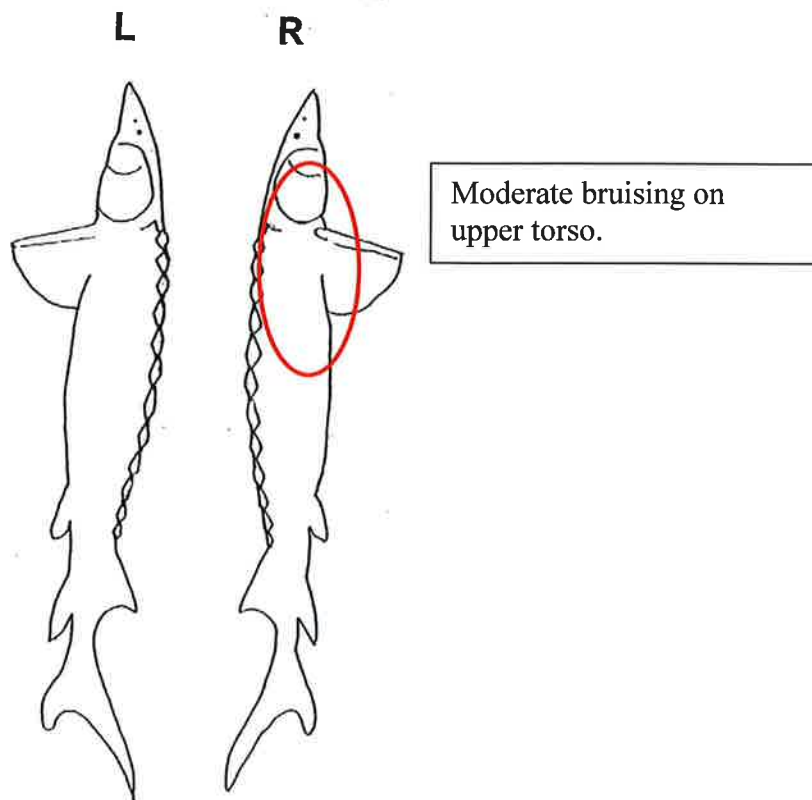
Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

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

Comments: The first of two, deceased Atlantic sturgeon collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 01/09/2024, at approximately 10:25AM. After positive identification was made by Environmental Consulting Services personnel, the specimen was photographed and inspected for tags. No evidence of external tags was found, and no existing PIT tag was indicated. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

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



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 deceased at the time of collection, but revealed no obvious external damage other than some evidence of moderate surface bruising on the right side of the upper torso. No tags or evidence of prior fin clips were indicated during processing.**

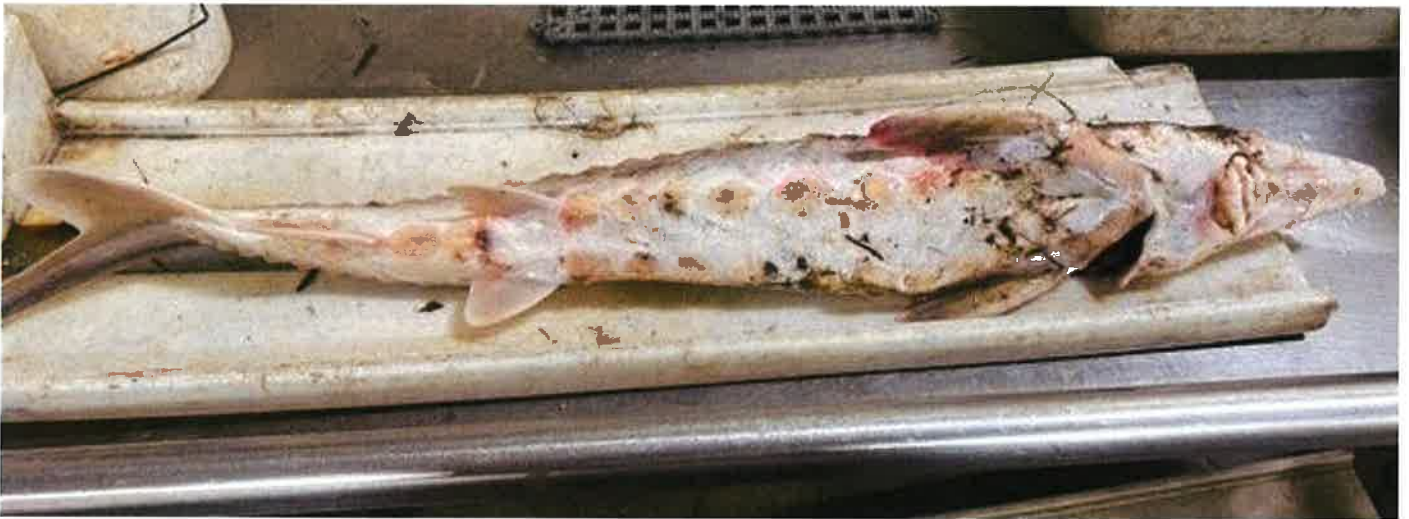
Submit completed forms (within 24 hours of observation of fish): by e-mail to [Incidental Take@noaa.gov](mailto:IncidentalTake@noaa.gov) or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.

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 deceased Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 10:25AM on 01/09/2024 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (01/09/2024).



A ventral view of the specimen, showing more of the overall condition at the time of processing. Except for some minor bruising to the right side of the upper torso, no evidence of severe external damage was observed (01/09/2024).

Photographs



A right, dorsolateral view of the head, showing a close-up of the surface bruising located along the upper torso (01/09/2024).



A ventral view of the head and upper torso, showing the characteristic elongated rostrum and small mouth (01/09/2024).

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: Hannah Sarmir (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Hannah Sarmir

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, Intake 12B

Date animal observed: 01/09/2024 Time animal observed: 10:25 AM

Date animal collected: 01/09/2024 Time animal collected: 10:25 AM

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

Air temp. - 7.5°C; Sal. - 10.0 ppt; Wind -SE; sky - light rain; Wave - moderate; tide- E1 (94.5 ft.)

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

Date and time of last inspection of screen: 01/08/2024 at 22:36

Water temperature (°C) at site and time of observation: 6.5 °C

Number of pumps operating at time of observation: Unit 1: 5 circulators / Unit 2: 5 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 99.9 / Unit 2: 100.0

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 99.8 / Unit 2: 100.0

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Hannah Last Sarmir
Agency Affiliation PSEG subcontractor Email Hannah.Sarmir@pseg.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 01 Day 09 Year 2024

DATE EXAMINED:
Month 01 Day 09 Year 2024

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 Lower Alloways Creek State NJ
Descriptive location (be specific) Removed from Circulating Water Intake Structure (CWIS) trash racks, intake bay 12B, during routine trash rack cleaning at the Salem Generating Station, PSEG Nuclear LLC.

Latitude 39.460603° (Dec. Degrees) Longitude -75.536133° (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>71.6 cm</u>
Total length	<u>82.3 cm</u>
Length <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	
Mouth width (inside lips, see reverse side)	<u>3.8 cm</u>
Interorbital width (see reverse side)	<u>5.1 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>1.4 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).

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

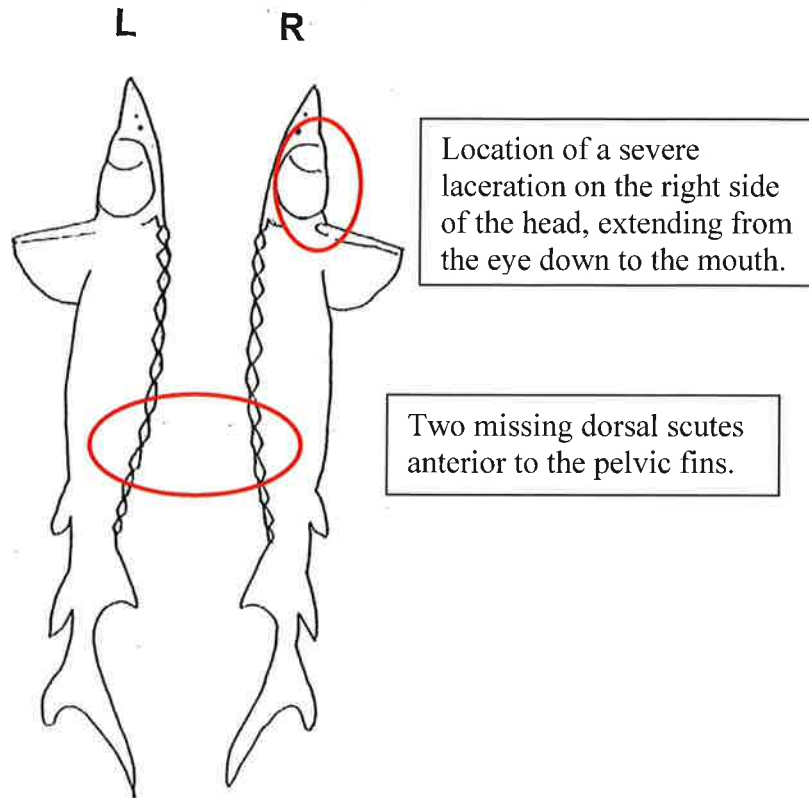
Photos/video taken? Yes No
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

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

Comments: The second, of two Atlantic sturgeon, collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 01/09/2024, at approximately 10:25AM. The specimen was initially alive at collection, but did not survive due to prior injury. After positive identification was made by Environmental Consulting Services personnel, the specimen was photographed and inspected for tags. No evidence of external tags was found, and no existing PIT tag was indicated. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was placed on ice and prepared for transport back to the ECSI main office, where it will be stored under refrigeration, awaiting direction on further disposition. The fin clip sample has been stored in refrigeration and will be held for aggregated shipment to a designated laboratory.

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



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 initially alive at the time of collection, but did not survive due to its injuries. Damage in the form of a severe laceration on the right side of the head, as well as two missing dorsal scutes, immediately anterior to the pelvic fins was observed (refer to illustration above). No tags or evidence of prior fin clips were indicated during 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 left, dorsolateral view showing the size and condition of a second Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 10:25AM on 01/09/2024 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (01/09/2024).



A right, dorsolateral view of the specimen. Two dorsal scutes, located mid-torso, were found to be missing at the time of processing, and a laceration to the right side of the head, below the eye, was also observed. Although initially alive at the time of collection, the specimen did not survive due to its injuries (01/09/2024).

Photographs



A closeup view of the specimen, showing exposed tissue from two missing dorsal scutes, located mid-torso and anterior to the pelvic fins (01/09/2024).



A ventral view of the specimen. Except for the missing dorsal scutes, no other severe injuries to the torso were observed (01/09/2024).

Photographs



A right, dorsolateral view of the head, showing evidence of a severe laceration extending from the eye, down in the direction of the mouth (01/09/2024).



A left, dorsolateral view of the head, showing the characteristic elongated rostrum and small mouth. No additional damage was observed in this location (01/09/2024).