

From: Strait, Kenneth A. <Kenneth.Strait@pseg.com>
Sent: Thursday, May 14, 2020 9:46 AM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: jeanette.bowers@dep.nj.gov
Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC STURGEON
Attachments: #1 Sturgeon Incidental Take Report for 05-13-2020.pdf; #2 Sturgeon Incidental Take Report for 05-13-2020.pdf

Attached are the Incidental Take Reports and Data Collection Forms for two sturgeon collected on 05/13/2020 at the Salem Generating Station cooling water intake. This incidental take is authorized under Biological Opinion NER-2010-6581.

Please let me know if you have any questions or need additional information. Thanks.

Ken

Kenneth A. Strait

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Mail Envelope Properties (913251fd0aa84fd0ac946bcf3b1a76a6)

Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC STURGEON
Sent Date: 5/14/2020 9:46:12 AM
Received Date: 5/14/2020 9:46:37 AM
From: Strait, Kenneth A.

Created By: Kenneth.Strait@pseg.com

Recipients:

"jeanette.bowers@dep.nj.gov" <jeanette.bowers@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	1352	5/14/2020 9:46:37 AM
#1 Sturgeon Incidental Take Report for 05-13-2020.pdf	359361	
#2 Sturgeon Incidental Take Report for 05-13-2020.pdf	354470	

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: Stephen Whitford (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Stephen Whitford

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, intake 11A

Date animal observed: 05/13/2020 Time animal observed: 08:50 am

Date animal collected: 05/13/2020 Time animal collected: 08:50 am

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

Air temp. – 9.5 °C; Sal. – 4.0 ppt; Wind – ENE; sky – clear; Wave – calm; tide- Ebb 2 (88.5ft)

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

Date and time of last inspection of screen: 05/13/2020; at 12:59 am

Water temperature (°C) at site and time of observation: 13.0 °C

Number of pumps operating at time of observation: Unit 1: 6 circulators / Unit 2: 5 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 99.9% /Unit 2: 44.0%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 21.5%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First **Stephen** Last **Whitford**
Agency Affiliation **PSEG subcontractor** Email **Stephen.Whitford@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 05 Day 13 Year 2020

DATE EXAMINED:

Month 05 Day 13 Year 2020

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 11A, 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 **113.6 cm**
Total length **129.0 cm**
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) **5.7 cm**
Interorbital width (see reverse side) **8.9 cm**
Weight ☒ actual ☐ estimate **14.0kg**

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

No tag 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 healthy and in good condition. After processing, and a period of holding to reduce stress, it was released back to the Delaware River.

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)

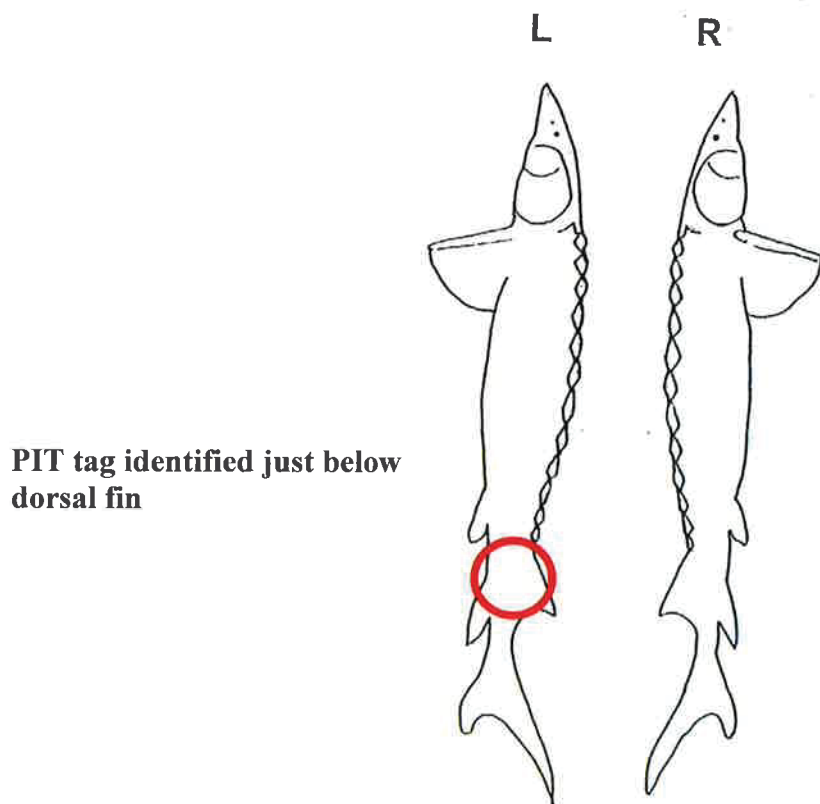
Pelvic fin clip

stored in non-denatured ethanol and refrigerated.

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

Comments: A live, Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 05/13/20, at 08:50am. After positive identification was made by Environmental Consulting Services personnel, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. Therefore, PIT tagging procedures for placement of a tag were implemented. Specimen has been identified with tag #933000320184019. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was released back to the Delaware River at 09:40am. 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 live at the time of collection. Except for some minor bruising on the ventral aspect of the rostrum, no signs of damage were observed. A PIT was not identified during processing, so a PIT was implanted below the dorsal fin, on the left side (refer to diagram above).**

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 dorsolateral view showing the size and condition of a live, Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 08:50 am on 05/13/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (05/13/2020).



A dorsal view of the head and rostrum of the specimen. The somewhat shortened rostrum shown in the photo above, although not typical, has been observed in other specimens (05/13/2020).

Photographs



A ventral view of the specimen, showing the characteristic small mouth. Except for some minor bruising on the ventral portion of the rostrum, no other injuries were observed (05/13/2020).

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: Stephen Whitford (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Stephen Whitford

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, intake 11B

Date animal observed: 05/13/2020 Time animal observed: 09:50 am

Date animal collected: 05/13/2020 Time animal collected: 09:50 am

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

Air temp. – 9.5 °C; Sal. – 4.0 ppt; Wind – ENE; sky – clear; Wave – rough; tide- Ebb2(87.5ft)

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

Date and time of last inspection of screen: 05/13/2020; at 12:59 am

Water temperature (°C) at site and time of observation: 13.0 °C

Number of pumps operating at time of observation: Unit 1: 6 circulators / Unit 2: 5 circulators

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 99.9% /Unit 2: 44.0%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% /Unit 2: 21.5%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Stephen Last Whitford
Agency Affiliation PSEG subcontractor Email Stephen.Whitford@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 05 Day 13 Year 2020

DATE EXAMINED:

Month 05 Day 13 Year 2020

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 11B, 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>64.1 cm</u>
Total length	<u>69.8 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>5.7 cm</u>
Weight <input checked="" type="checkbox"/> actual <input type="checkbox"/> estimate	<u>3.8 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

No tag 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 healthy and in excellent condition. After processing, and a period of holding to reduce stress, it was released back to the Delaware River.

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)

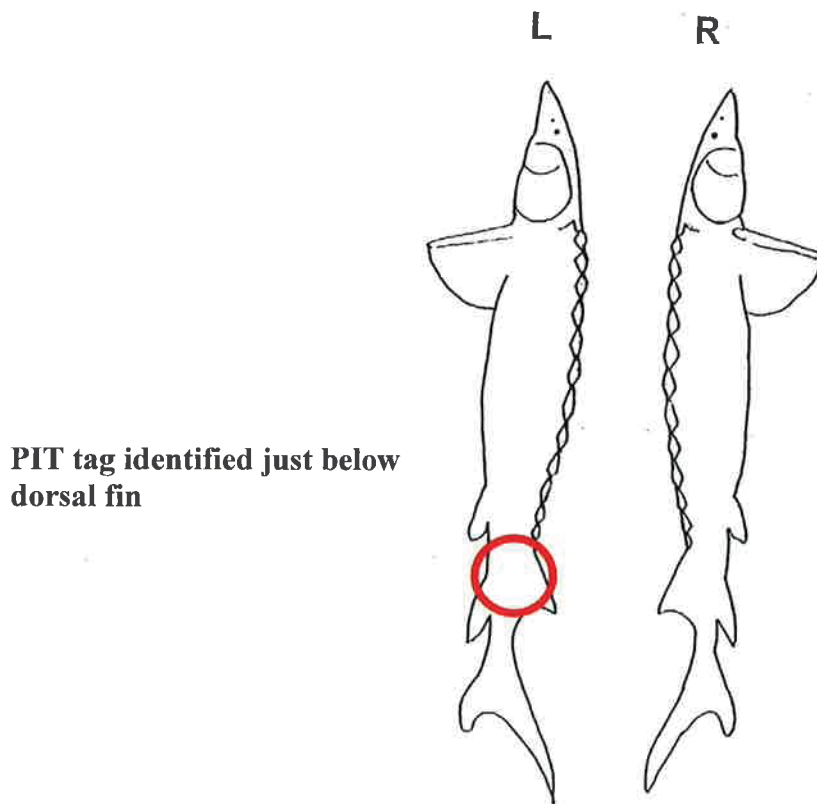
Pelvic fin clip

stored in non-denatured ethanol and refrigerated.

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

Comments: A second, live Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 05/13/20, at 09:50am. After positive identification was made by Environmental Consulting Services personnel, the specimen was measured, photographed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. Therefore, PIT tagging procedures for placement of a tag were implemented. Specimen has been identified with tag #933000320184011. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was released back to the Delaware River at 10:00am. 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

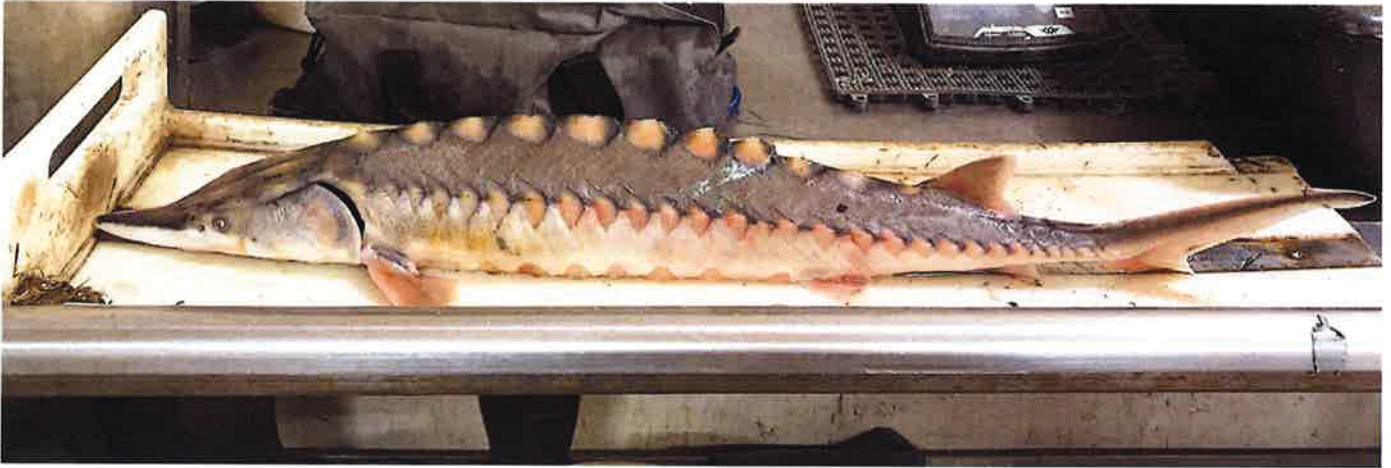


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Specimen was live at the time of collection, and had no obvious signs of damage. No PIT was indicated during processing, so tagging procedures were implemented. Specimen received a PIT, located below the dorsal fin on the left side (refer to diagram above).**

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Photographs



A dorsolateral view showing the size and condition of a second, live Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at approximately 09:50 am on 05/13/2020 from the Salem Circulating Water Intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (05/13/2020).



A dorsal view of the specimen, showing the characteristic elongated rostrum (05/13/2020).

Photographs



A ventral view of the specimen, showing the characteristic small mouth (05/13/2020).



A ventral view of the specimen, showing the existence of small bony scutes located just above the anal fin (05/13/2020).