NRR-DMPSPEm Resource

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Tuesday, April 16, 2019 2:14 PM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: jeanette.bowers@dep.nj.gov
Subject: [External_Sender] Salem Generating Station- Incidental Take of Atlantic Sturgeon 04/15/2019
Attachments: Sturgeon Incidental Take Report 04-15-19.pdf

Attached are the Incidental Take Report and Data Collection Form for a deceased Atlantic sturgeon collected on 04/15/2019 from the Salem Generating Station cooling water intake trash bars. The specimen has been frozen for study pending direction from NOAA/NMFS. This incidental take is 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_DMPS
Email Number: 928

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Subject: [External_Sender] Salem Generating Station- Incidental Take of Atlantic Sturgeon 04/15/2019
Sent Date: 4/16/2019 2:14:24 PM
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From: Cary, Richard H.

Created By: Richard.Cary@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

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MESSAGE	1194	4/16/2019 2:14:45 PM
Sturgeon Incidental Take Report 04-15-19.pdf	948728	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

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 2, intake 22A:

Date animal observed: 04/15/2019 Time animal observed: 09:45 am
Date animal collected: 04/15/2019 Time animal collected: 09:30 am

Environmental conditions at time of observation (i.e., tidal stage, weather):
Air temp. – 13.0 °C; Sal. – 5.0 ppt; wind – SW; sky – light rain; wave – moderate; tide – E1 (92.5ft)

If removed from intakes (trash racks or traveling screens):
Date and time of last inspection of screen: 04/15/19; 02:37am
Water temperature (°C) at site and time of observation: 14.0 °C
Number of pumps operating at time of observation: Unit 1: 0 circulators / Unit 2: 6 circulators
Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 0.0% /Unit 2: 100.1%
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 0.0% /Unit 2: 100.1%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION
Name: First **Doug** Last **Potts**
Agency Affiliation **PSEG subcontractor** Email **dpotts@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 04 Day 15 Year 2019
DATE EXAMINED:
Month 04 Day 15 Year 2019

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) intake trash racks, intake bay 22A, 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	**76.8 cm**
Total length	**89.5 cm**
Length ☒ actual ☐ estimate	
Mouth width (inside lips, see reverse side)	**6.3 cm**
Interorbital width (see reverse side)	**8.2 cm**
Weight ☒ actual ☐ estimate	**3.5 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
No Tags 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)

Carcass Necropsied?
☐ Yes ☒ No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:
Photos/vide taken? ☒ Yes ☐ No

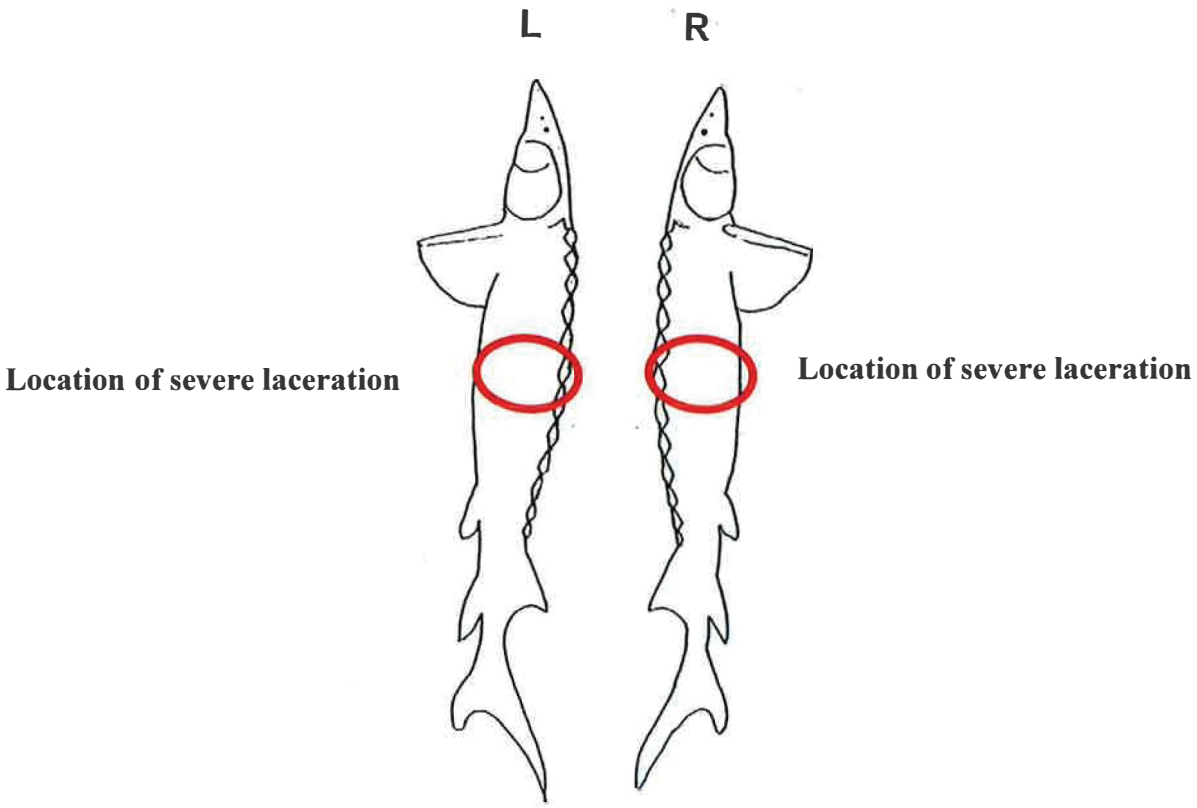
Disposition of Photos/Video **PSEG Nuclear Environmental Affairs**

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 slightly damaged but deceased Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 04/15/19, at 09:30am. After positive identification was made by Environmental Consulting Services personnel, the office of PSEG Nuclear Environmental Affairs was notified of the incidental take. During processing, the specimen was measured, photograhed, and inspected for tags. No evidence of external tags was found, and no existing PIT tags were indicated. A pelvic fin clip was 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 refridgeration, 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

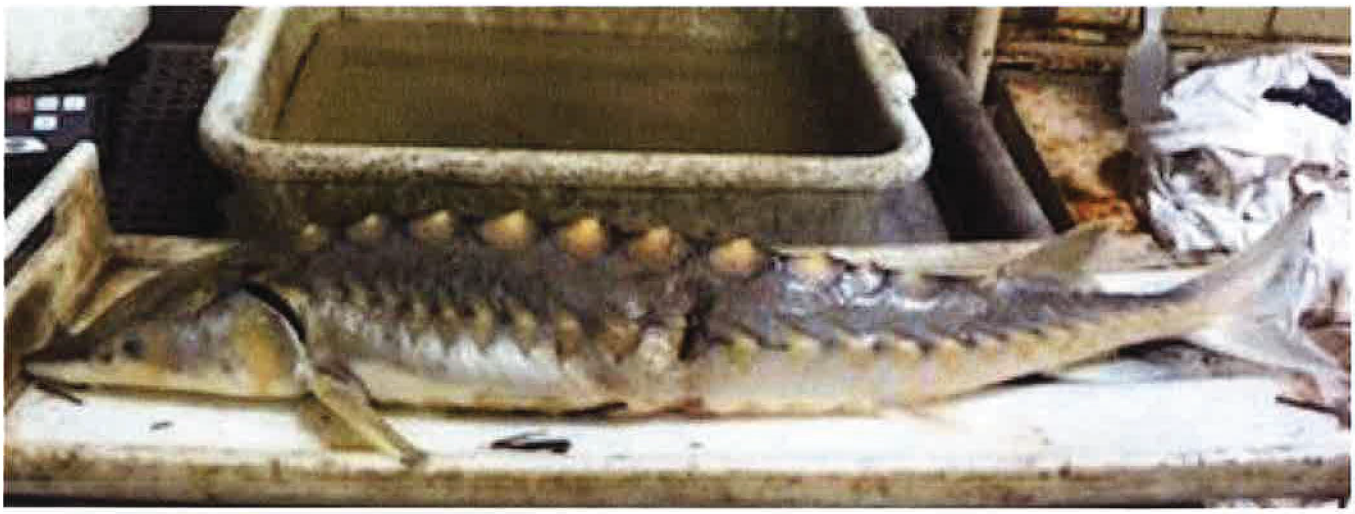


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). **Please note if no wounds / abnormalities are found. Specimen was deceased at the time of observation, and was found to be in poor condition due to existing external damage resulting from a large laceration. The wound was observed along the midpoint of the body, in the area between the pectoral and pelvic fins (refer to illustration). During processing, no internal or external tags were indicated. After processing, the specimen was returned to the ECSI office and placed in refrigeration, awaiting direction on further disposition.**

Submit completed forms (within 24 hours of observation of fish): by e-mail to Incidental Take@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.

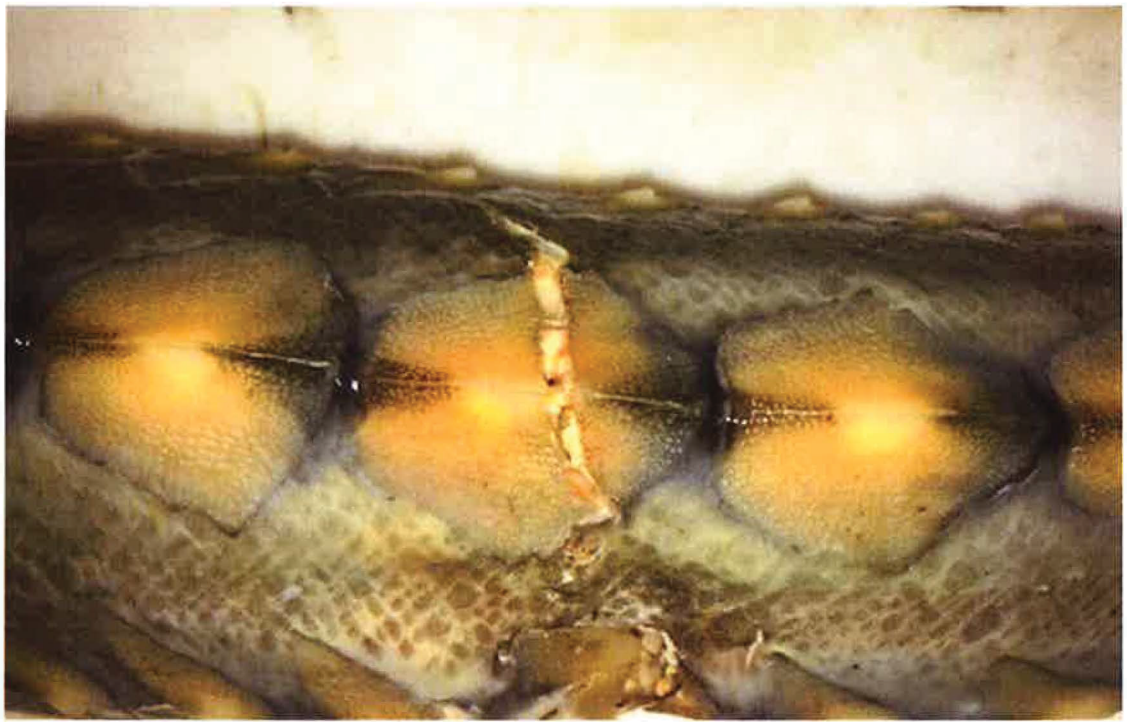
Photographs



A dorsolateral view showing the size and condition of the damaged but deceased Atlantic Sturgeon (Acipenser oxyrinchus), retrieved at 09:30am on 04/15/19 from 22A circulator intake bay by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (04/15/2019).

A dorsal view of the head, showing the characteristic elongated rostrum (04/15/2019).

Photographs



Dorsal view showing detail of the observed laceration located midway along the torso (04/15/2019).

Dorsolateral view of the left side of the carcass, showing additional detail of the observed laceration (04/15/2019).

Photographs

Ventral view of the head, showing the characteristic small mouth and elongated rostrum (04/15/2019).