

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Monday, January 27, 2020 11:35 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 01/24/2020
Attachments: Sturgeon Incidental Take Report for 01-24-2020.pdf

Attached is the Incidental Take Report and Data Collection Form for a deceased Atlantic sturgeon collected on 01/24/2020 from the Salem Generating Station during routine raking of the cooling water intake trash bars. The specimen and fin clip are being held 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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Subject: [External_Sender] Salem Generating Station - Incidental Take of Atlantic Sturgeon 01/24/2020
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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	1232	1/27/2020 11:35:32 AM
Sturgeon Incidental Take Report for 01-24-2020.pdf		439418

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: Alex Riehle (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Alex Riehle

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station, SGS Unit 2 detritus trash collection basket

Date animal observed: 01/24/2020 Time animal observed: 11:00 am

Date animal collected: 01/24/2020 Time animal collected: 11:15 am

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

Air temp. – 13.0 °C; Sal. – 10.0 ppt; Wind – E; sky – overcast; tide- flood slack (94.0ft)

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

Date and time of last inspection of screen: 01/24/2020; 10:45am

Water temperature (°C) at site and time of observation: 4.0 °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: 100.1% / Unit 2: 100.1%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.1% / 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 **Alex** Last **Riehle**
Agency Affiliation **PSEG subcontractor** Email **Alexander.Riehle@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 24 Year 2020

DATE EXAMINED:

Month 01 Day 24 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) intake, Unit 2 trash collection basket 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 **43.9 cm**
Total length **50.7 cm**
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) **2.8 cm**
Interorbital width (see reverse side) **4.2 cm**
Weight ☒ actual ☐ estimate **1.6 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

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/video taken? ☒ Yes ☐ No

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

SAMPLES COLLECTED? ☒ Yes ☐ No

Sample

How preserved

Disposition (person, affiliation, use)

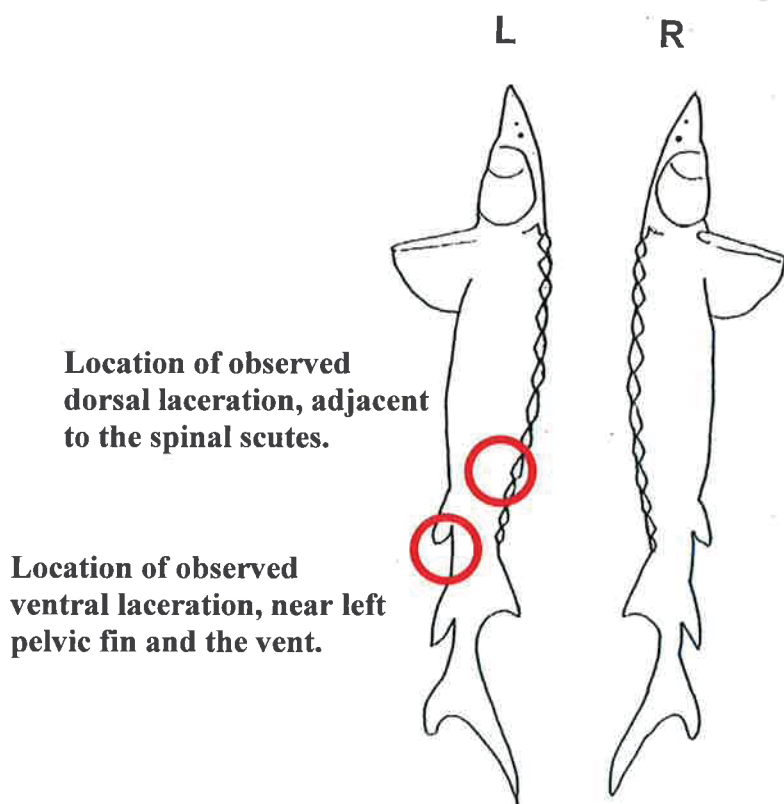
Pelvic fin clip

stored in non-denatured ethanol and refrigerated.

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

Comments: A deceased, Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure Unit 2 Trash Collection basket on 01/24/20, at 11:15am. PSEG Nuclear Environmental Affairs personnel were contacted after positive identification was made by Environmental Consulting Services personnel. During processing, the specimen was measured, photographed, 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 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 and was observed to have two large flesh wounds; one on its ventral side, near the left pelvic fin and vent, and a second wound dorsally, adjacent to the spinal scutes (refer to diagram above). Specimen exhibited no evidence of decomposition.**

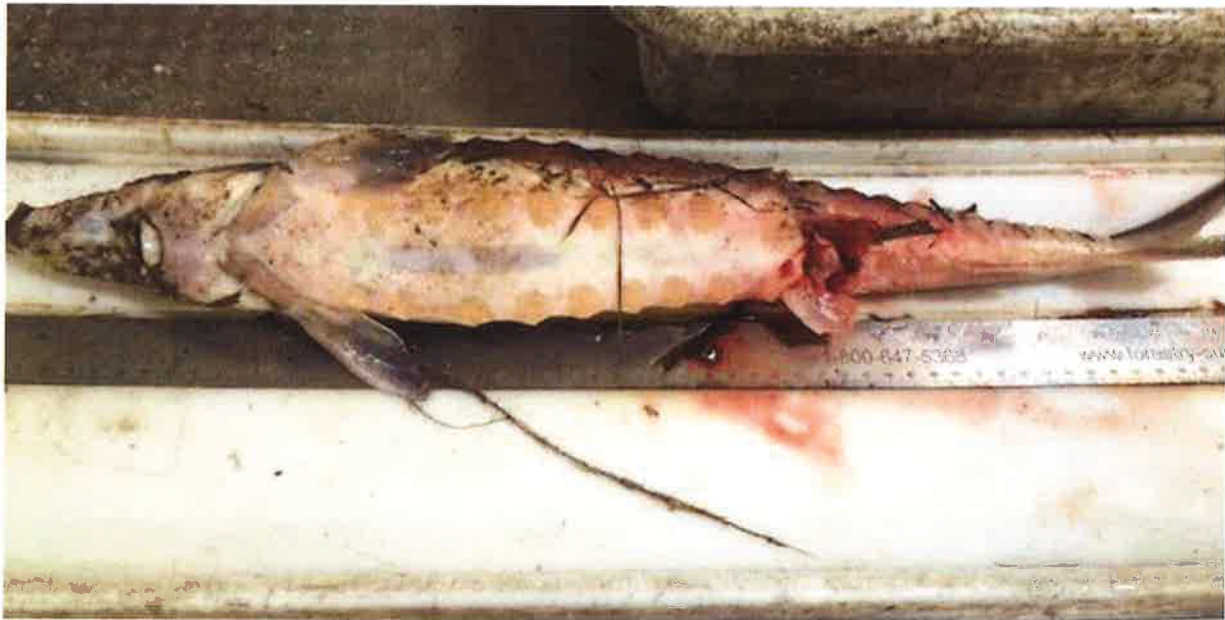
Submit completed forms (within 24 hours of observation of fish): by e-mail to [Incidental Take@noaa.gov](mailto:IncidentalTake@noaa.gov) or by fax (978-281-9394). Questions can be directed to NMFS Protected Resources Division at 978-281-9328.

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

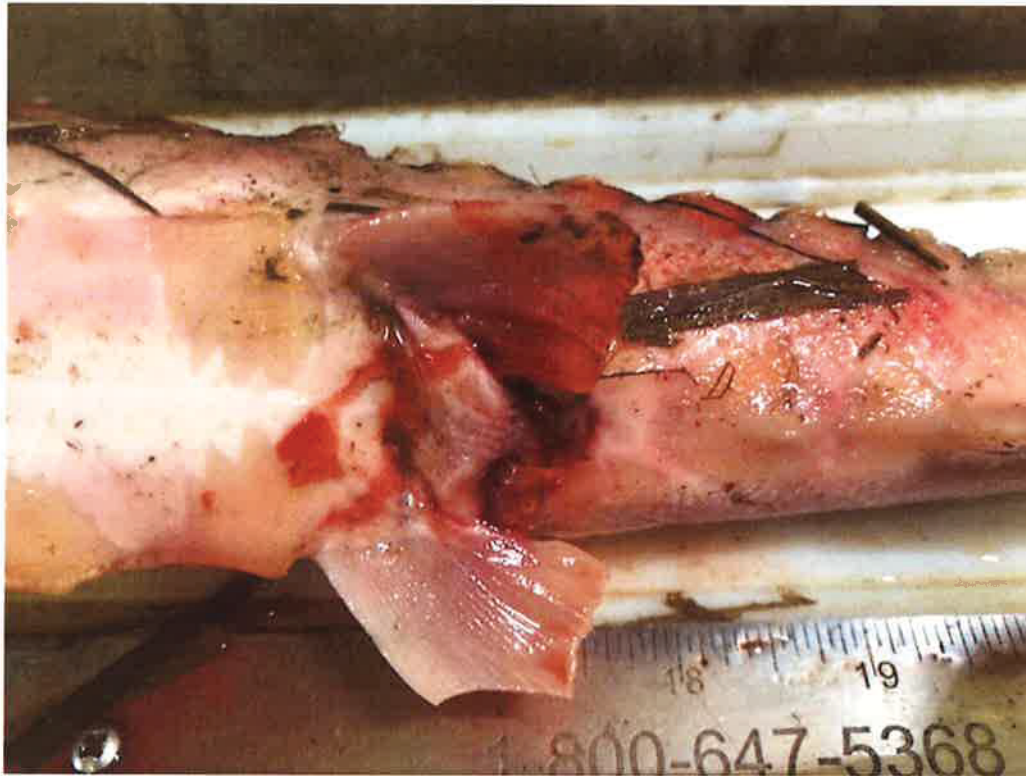


A dorsal view showing the size and condition of the deceased, Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 11:15am on 01/24/2020 from the Unit 2 trash collection basket by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (01/24/2020).



A ventral view of the specimen showing damage to the lower torso, attributed to a large laceration located near the left pelvic fin and vent (01/24/2020).

Photographs



Ventral view of the specimen showing a close-up of the observed laceration located near the vent (01/24/2020).



Dorsal view of the specimen showing additional damage to the lower torso, in the form of a second laceration located along the spinal scutes (01/24/2020).

Photographs



Dorsal view of the head, showing the characteristic elongated rostrum (01/24/2020).



A ventral view of the head, showing the characteristic small mouth (01/24/2020).