

## NRR-DMPSPeM Resource

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**From:** Pego, Michael A <Michael.Pego@pseg.com>  
**Sent:** Wednesday, January 17, 2018 9:46 AM  
**To:** EndangeredSpecies Resource  
**Subject:** [External\_Sender] PSEG Nuclear - Live Shortnose Sturgeon 1-16-18  
**Attachments:** Sturgeon Incidental Take Report for 011618.pdf

Good Morning,

Attached is the report documenting the collection of a live cold shocked shortnose sturgeon found during routine raking of our trash racks. The animal was photographed and tagged then placed in a aerated holding tank to revive for a few hours before being released back to the Delaware river at 13:42pm. If you have any questions or concerns, please contact Ken Strait at (856) 339-3929 or [Kenneth.Strait@pseg.com](mailto:Kenneth.Strait@pseg.com) .

*Michael A. Pego*  
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**Hearing Identifier:** NRR\_DMPS  
**Email Number:** 120

**Mail Envelope Properties** (08dfe46b268d4cbb9e99ec0ef533452b)

**Subject:** [External\_Sender] PSEG Nuclear - Live Shortnose Sturgeon 1-16-18  
**Sent Date:** 1/17/2018 9:45:48 AM  
**Received Date:** 1/17/2018 9:47:09 AM  
**From:** Pego, Michael A

**Created By:** Michael.Pego@pseg.com

**Recipients:**  
"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>  
Tracking Status: None

**Post Office:** pseg.com

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1311	1/17/2018 9:47:09 AM
Sturgeon Incidental Take Report for 011618.pdf		1446788

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** Yes  
**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: Ken Kiess (Environmental Consulting Services, Inc. (ECSI))  
Reporter's full name: Ken Kiess

Species Identification : shortnose sturgeon (Acipenser brevirostrum)

Site of Collection: PSEG Salem Generating Station, SGS Unit 1; CWI 13A

Date animal observed: 01/16/2018 Time animal observed: 10:35am

Date animal collected: 01/16/2018 Time animal collected: 10:10am

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

Air temp. - 4.0°C; sal. - 15.0 ppt; wind - SE; sky - partly cloudy; wave - slight; tide - Flood SLk (94.0ft)

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

Date and time of last inspection of screen: 01/15/2018 @ 21:04pm

Water temperature (°C) at site and time of observation: 0.0 °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% / Unit 2 - 100%

Average percent of power generating capacity achieved per unit over the 48 hours previous to

observation: Unit 1 - 100% / Unit 2 - 100%

# STURGEON DATA COLLECTION FORM

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

## OBSERVER'S CONTACT INFORMATION

Name: First Kenneth Last Kiess  
Agency Affiliation PSEG subcontractor Email Kenneth.Kiess@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 16 Year 2018

## DATE EXAMINED:

Month 01 Day 16 Year 2018

## 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 Hancocks Bridge State NJ  
Descriptive location (be specific) Removed from Circulating Water Intake Structure (CWS) intake trash racks, intake bay 13A, 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>68.7 cm</u>
Total length	<u>80.6 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>3.3 kg</u>

## TAGS PRESENT? Examined for external tags including fin clips? ☒ Yes ☐ No

Tag #

Tag Type

Scanned for PIT tags? ☒ Yes ☐ No  
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) Specimen was alive and in 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 personnel

## SAMPLES COLLECTED? ☒ Yes ☐ No

Sample

How preserved

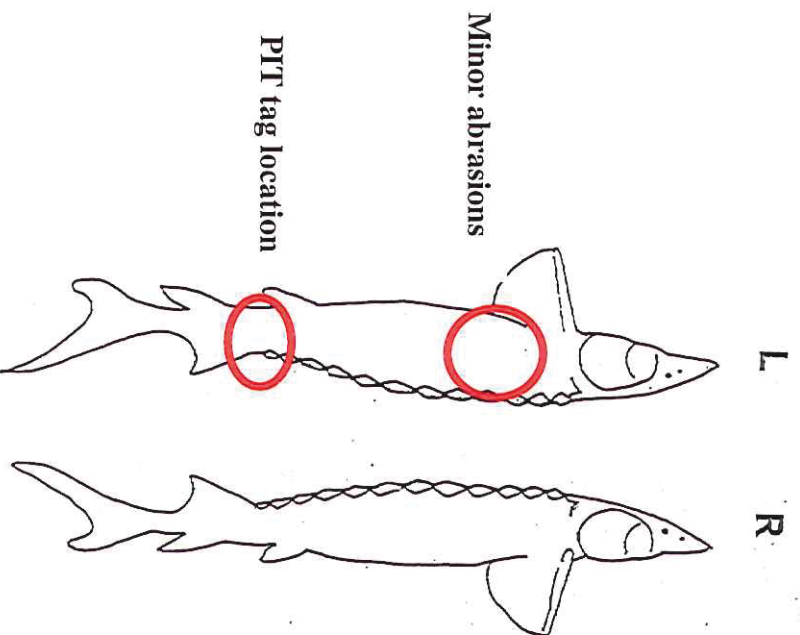
Pelvic fin clip \_\_\_\_\_  
stored in non-denatured ethanol

Disposition (person, affiliation, use)

Held at the Office of ECSI: waiting for further instruction on disposition.

Comments: A live shortnose sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 01/16/18, at 10:10am. Positive identification was made by Environmental Consulting Services personnel at 11:00am. 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 #96500000383819. 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 13:42pm. The fin clip sample has been stored in refrigeration at the ECSI main office, waiting further instruction on disposition. PSEG Nuclear Environmental Affairs personnel, after being contacted in regards to the incidental take, contacted the NJDEP and the NMFS at 10:59am and 11:18am respectively.

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

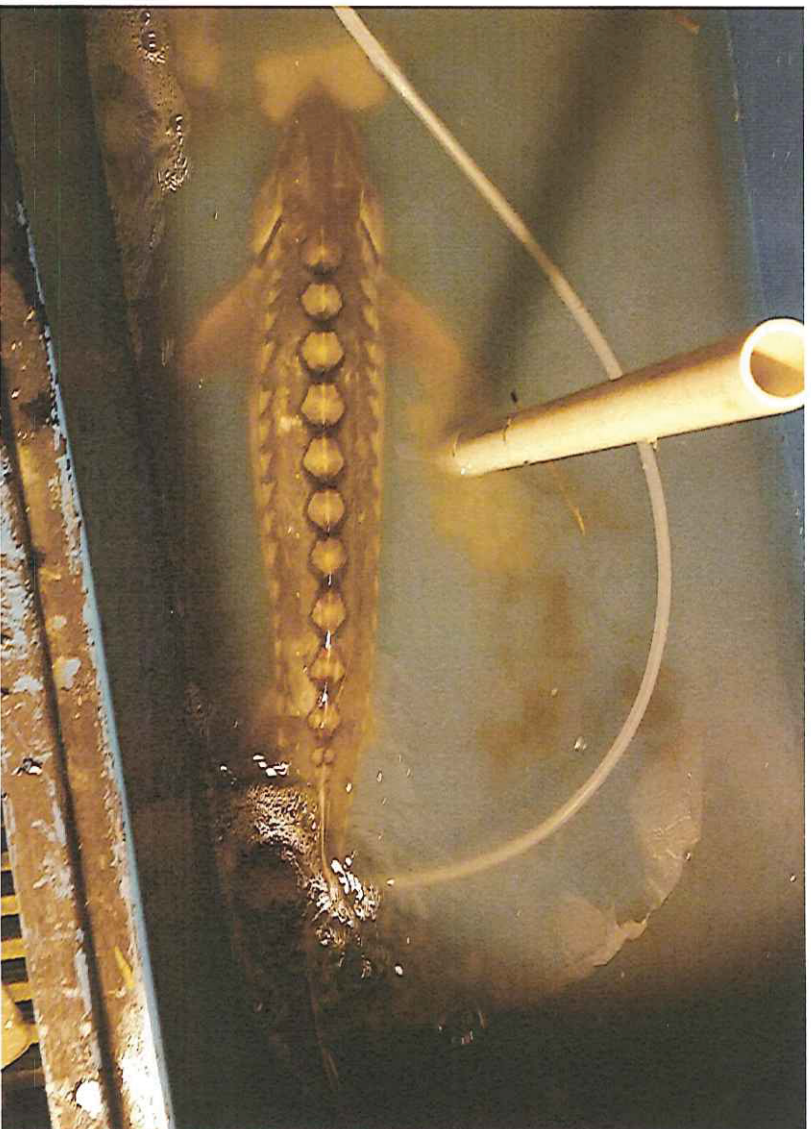


Describe any wounds / abnormalities (note tar or oil, gear or debris entanglement, propeller damage, etc.). Please note if no wounds / abnormalities are found. **Specimen was alive and in generally good condition at the time of collection. Some very minor abrasions were observed on its left side, along the denticles, near the pectoral fin as well as some rub marks in the stomach region. No cuts or lacerations were observed. After a period of holding in ambient river water to help reduce the effects of stress, the specimen was returned to the Delaware River. Specimen was PIT tagged (Refer to illustration regarding tag location)**

**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

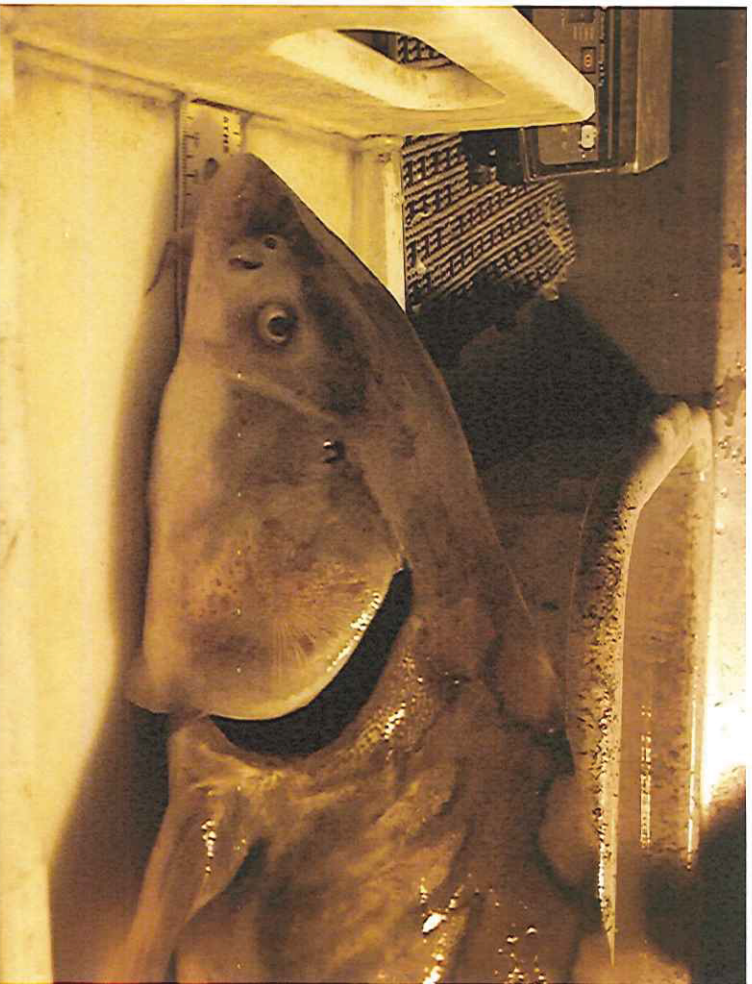


View showing the live, shortnose sturgeon (*Acipenser brevirostrum*) retrieved at 10:10am on 01/16/18 by Salem Yard Crew personnel during routine trash rack cleaning at the PSEG Salem CW/B. The specimen was held in a tank with ambient river water and supplied with continuous aeration for several hours to help reduce potential collection related stresses (01/16/2018).



In this image, a left, dorsolateral view reveals evidence of some very minor skin abrasions located along the denticles, near the pectoral fin (01/16/2018).

## Photographs



A dorso-lateral view of the specimen showing a close-up of the head and shortened rostrum (01/16/2018).



A ventral view of the specimen, again showing the shortened rostrum, as well as the large mouth, each a characteristic feature of the species (01/16/2018).

## Photographs



The non-existence of bony scutes along the base of the anal fin, as is shown in this dorsolateral view of the specimen, is also a distinct characteristic of shortnose sturgeon. No tags were indicated during processing, so PIT tagging procedures were implemented. Specimen has been identified with tag #96500000383819. A pelvic fin clip was collected and has been preserved in non-denatured ethanol. The sample has been placed in refrigeration at the ECSI office, waiting further instruction on disposition (01/16/18).