

From: Cary, Richard H. <Richard.Cary@pseg.com>
Sent: Friday, December 3, 2021 3:11 PM
To: incidental.take@noaa.gov; EndangeredSpecies Resource
Cc: Neilan, Brian
Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Sturgeon 12/02/2021
Attachments: Sturgeon Incidental Take Report for 12-02-2021 #1.pdf; Sturgeon Incidental Take Report for 12-02-2021 #2.pdf; Sturgeon Incidental Take Report for 12-02-2021 #3.pdf; Sturgeon Incidental Take Report for 12-02-2021 #4.pdf; Sturgeon Incidental Take Report for 12-02-2021 #5.pdf

Attached are the Incidental Take Reports and Data Collection Forms for 4 deceased Atlantic sturgeon and 1 deceased shortnose sturgeon collected on 12/02/2021 from the Salem Generating Station during routine raking of the cooling 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 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_DRMA
Email Number: 1445

Mail Envelope Properties (3b363527ecba4d75a1cc27788697d5d5)

Subject: [External_Sender] Salem Generating Station - Incidental Take Report: Sturgeon
12/02/2021
Sent Date: 12/3/2021 3:11:19 PM
Received Date: 12/3/2021 3:12:08 PM
From: Cary, Richard H.

Created By: Richard.Cary@pseg.com

Recipients:

"Neilan, Brian" <Brian.Neilan@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	1272	12/3/2021 3:12:08 PM
Sturgeon Incidental Take Report for 12-02-2021 #1.pdf	381138	
Sturgeon Incidental Take Report for 12-02-2021 #2.pdf	1579475	
Sturgeon Incidental Take Report for 12-02-2021 #3.pdf	391757	
Sturgeon Incidental Take Report for 12-02-2021 #4.pdf	413148	
Sturgeon Incidental Take Report for 12-02-2021 #5.pdf	404058	

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 13B

Date animal observed: 12/02/2021 Time animal observed: 10:50 AM

Date animal collected: 12/02/2021 Time animal collected: 10:20 AM

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

Air temp. - 13.5 °C; Sal. - 10.0 ppt; Wind -S; sky - partly cloudy; Wave - slight; tide- E1 (93.0ft.)

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

Date and time of last inspection of screen: 12/02/2021; at 08:28 AM

Water temperature (°C) at site and time of observation: 9.0 °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: 100.1% /Unit 2: 98.9%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.5% /Unit 2: 99.6%

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

SEC 7 UNIQUE IDENTIFIER (PCTS
No. Assigned by NMFS)

DATE REPORTED:

Month 12 Day 02 Year 2021

DATE EXAMINED:

Month 12 Day 02 Year 2021

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 (CWIS)
intake trash racks, intake bay 13B, during routine trash rack cleaning at the Salem Generating
Station, PSEG Nuclear LLC.

Latitude 39° 27'38.17 N (Dec. Degrees) Longitude 75° 32'10.08 W (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:

Fork length 44.2 cm Circle unit
Total length 50.0 cm
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) 1.5 cm
Interorbital width (see reverse side) 3.18 cm
Weight ☒ actual ☐ estimate 0.8 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

None 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) The deceased specimen was
transported back to ECSI office and placed in cold storage
waiting further direction on disposition.

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

Disposition (person, affiliation, use)

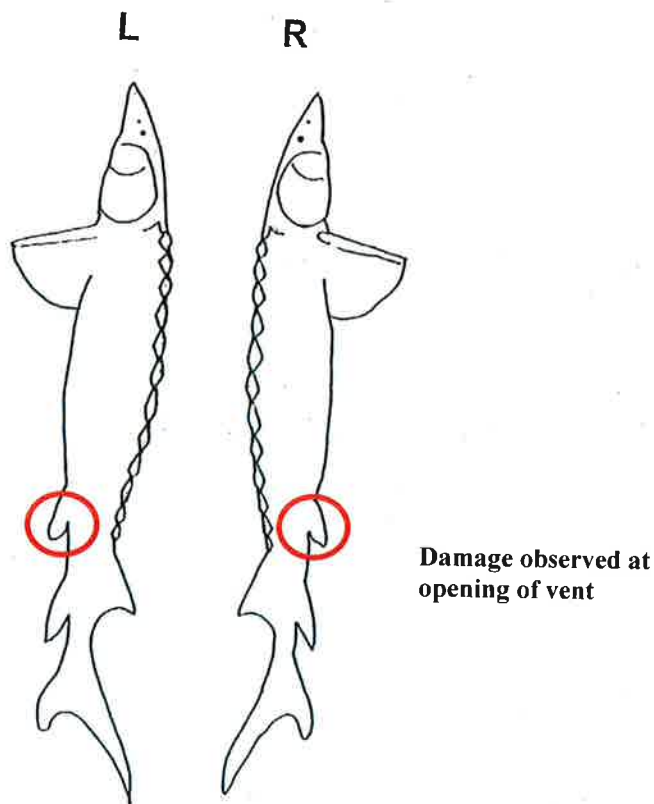
Pelvic fin clip

stored in non-denatured ethanol
and then refrigerated.

Held at the Office of ECSI; waiting for further
instruction on disposition from NMFS.

Comments: The deceased Atlantic sturgeon was observed outside the Salem Circulating Water Intake Structure during routine trash rack cleaning on 12/02/21, at 10:20am. Positive identification was made by Environmental Consulting Services personnel at 10:50am. The specimen showed signs of moderate decomposition at the time of collection. The specimen was measured, photographed, and inspected for tags, but none were found. A pelvic fin clip was collected. Upon completion of processing, the specimen was placed on ice and transported off-site to the ECSI main office. The specimen and the fin clip have been preserved and placed in cold storage, awaiting further direction on disposition.

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. At the time of collection, the specimen was deceased with moderate decomposition. Exposed tissue was observed protruding from the vent.**

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



View showing the size and condition of the deceased Atlantic Sturgeon (*Acipenser oxyrinchus*), retrieved at 10:20 am on 12/02/21 by Salem Yard Crew personnel during routine trash rack cleaning at the PSEG Salem CWIB (12/02/21).



Another photo, providing a view of the right side of the specimen showing evidence of decomposition, indicating that death likely occurred at some earlier time (12/02/21).

Photographs



This photo provides a close-up ventral view of the damage observed near the vent. No tags were indicated during processing. A pelvic fin clip was collected and has been preserved in non-denatured ethanol. The sample and the carcass have been placed in refrigeration at the ECSI office, waiting further instruction on disposition (12/02/21).



This photo provides a ventral view of the specimen, and shows the small mouth and elongated rostrum, each a characteristic feature of the species. (12/02/21).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Shortnose sturgeon (Acipenser brevirostrom)

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

Date animal observed: 12/02/2021 Time animal observed: 12:05 PM

Date animal collected: 12/02/2021 Time animal collected: 10:20 AM

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

Air temp. - 13.5 °C; Sal. - 10.0 ppt; Wind -S; sky - partly cloudy; Wave - slight; tide- E1 (93.0ft.)

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

Date and time of last inspection of screen: 12/02/2021; at 08:28 AM

Water temperature (°C) at site and time of observation: 9.0 °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: 100.1% /Unit 2: 98.9%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.5% /Unit 2: 99.6%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Beth Last Graham
Agency Affiliation PSEG subcontractor Email Beth.Graham@pseg.com
Address 100 South Cass Street, Middletown, DE 19709
Area code/Phone number (302) 378-9881

SEC 7 UNIQUE IDENTIFIER (PCTS
No. Assigned by NMFS)

DATE REPORTED:

Month 12 Day 02 Year 2021

DATE EXAMINED:

Month 12 Day 02 Year 2021

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 (CWIS) intake trash racks, intake bay 12B, during routine trash rack cleaning at the Salem Generating Station, PSEG Nuclear LLC.

Latitude 39° 27'38.17 N (Dec. Degrees) Longitude 75° 32'10.08 W (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 91.4 cm

Total length 106.1 cm

Length ☒ actual ☐ estimate

Mouth width (inside lips, see reverse side) 5.7 cm

Interorbital width (see reverse side) 7.0 cm

Weight ☒ actual ☐ estimate 6.4 kg

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

Tag # Tag Type

None found

Location of tag on carcass

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) The deceased specimen was transported back to ECSI office and placed in cold storage waiting further direction on disposition.

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

Disposition (person, affiliation, use)

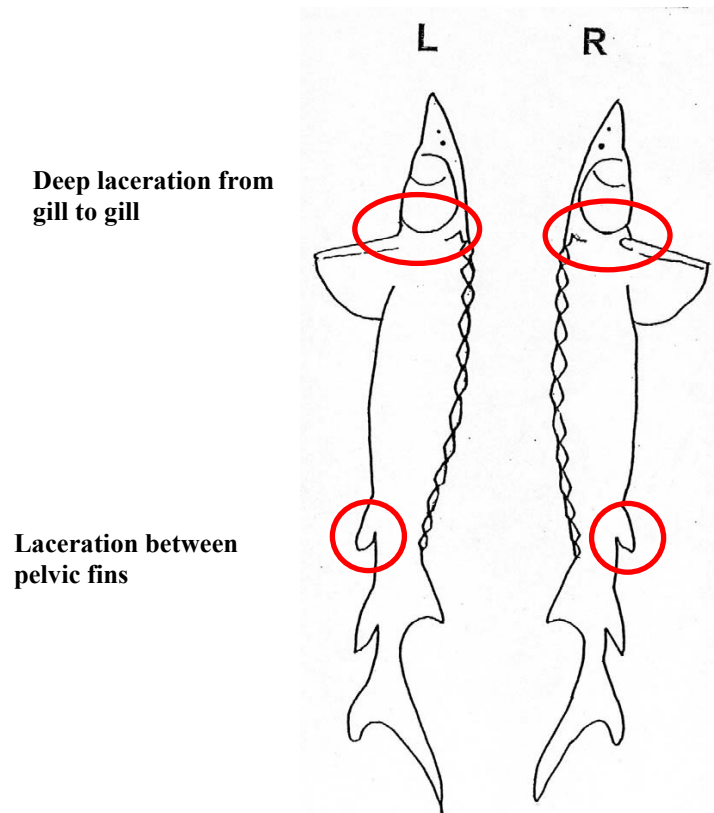
Pelvic fin clip

stored in non-denatured ethanol and then refrigerated.

Held at the Office of ECSI; waiting for further instruction on disposition from NMFS.

Comments: The deceased shortnose sturgeon was collected outside the Salem Circulating Water Intake Structure during routine trash rack cleaning on 12/02/21, at 10:20am. Positive identification was made by Environmental Consulting Services personnel at 12:05pm. The specimen showed signs of moderate decomposition at the time of collection. The specimen was measured, photographed, and inspected for tags, but none were found. A pelvic fin clip was collected. Upon completion of processing, the specimen was placed on ice and transported off-site to the ECSI main office. The specimen and the fin clip have been preserved and placed in cold storage, awaiting further direction on disposition from NMFS.

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. At the time of collection, the specimen was deceased with moderate decomposition. A laceration was observed between the pelvic fins. Deep lacerations and decomposition was noted around the gills on both sides, with the head nearly severed.**

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.

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Photographs



A close-up view showing the condition of the deceased Shortnose Sturgeon (*Acipenser brevirostrum*), retrieved at 10:20am on 12/02/21 by Salem Yard Crew personnel during routine trash rack cleaning at the PSEG Salem CWIB (12/02/21).



A close-up view of the posterior end of the specimen, showing the damage near the pelvic fin (12/02/21).

Photographs



This photo provides a ventral view of the specimen, and shows the large mouth and shortened rostrum, each a characteristic feature of the species. (12/02/21).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 2, intake 21A

Date animal observed: 12/02/2021 Time animal observed: 12:20 PM

Date animal collected: 12/02/2021 Time animal collected: 10:40 AM

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

Air temp. – 13.5°C; Sal. – 10.0 ppt; Wind –S; sky – partly cloudy; Wave – slight; tide- Ebb 1
(92.5 ft)

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

Date and time of last inspection of screen: 12/02/2021; at 08:28 AM

Water temperature (°C) at site and time of observation: 9.0 °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: 100.1% /Unit 2: 98.9%

Average percent of power generating capacity achieved per unit over the 48 hours previous to
observation: Unit 1: 100.5% /Unit 2: 99.6%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Beth Last Graham
Agency Affiliation PSEG subcontractor Email Beth.Graham@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 12 Day 02 Year 2021

DATE EXAMINED:

Month 12 Day 02 Year 2021

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 21A, 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 64.7 cm
Total length 73.0 cm
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) 3.2 cm
Interorbital width (see reverse side) 5.1 cm
Weight ☒ actual ☐ estimate 1.8 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 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). The deceased specimen was
transported back to ECSI office and placed in cold storage
waiting further direction on disposition.

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

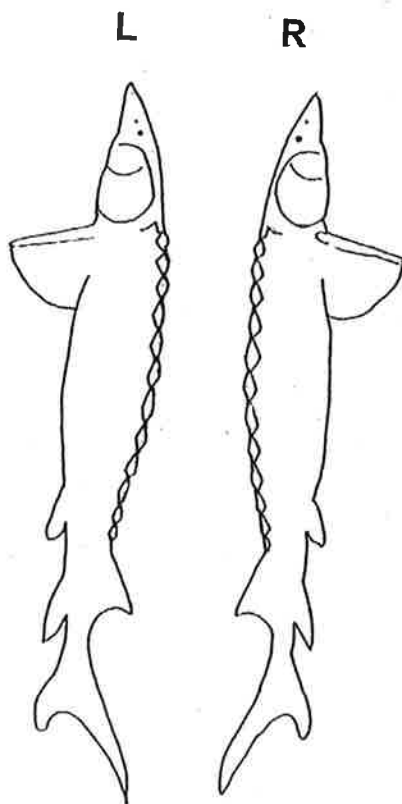
Sample How preserved
Pelvic fin clip stored in non-denatured ethanol
and refrigerated.

Disposition (person, affiliation, use)

Held at the Office of ECSI; waiting for further
instruction on disposition from NMFS

Comments: The deceased Atlantic sturgeon was observed outside the Salem Circulating Water Intake Structure during routine trash rack cleaning on 12/02/21, at 10:40am. Positive identification was made by Environmental Consulting Services personnel at 12:20pm. The specimen fresh dead at the time of collection. The specimen was measured, photographed, and inspected for tags, but none were found. A pelvic fin clip was collected. Upon completion of processing, the specimen was placed on ice and transported off-site to the ECSI main office. The specimen and the fin clip have been preserved and placed in cold storage, awaiting further direction on disposition

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. At the time of collection, the specimen was deceased. No punctures, wounds, or abnormalities were observed.**

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.

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Photographs



View showing the size and condition of the deceased Atlantic Sturgeon (*Acipenser oxyrinchus*), retrieved at 10:40am on 12/02/21 by Salem Yard Crew personnel during routine trash rack cleaning at the PSEG Salem CWIB (12/02/21).



Another photo, providing a close-up view of the head of the specimen (12/02/21).

Photographs



This photo provides a ventral view of the specimen, and shows the small mouth and elongated rostrum, each a characteristic feature of the species. (12/02/21).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 2, intake 21A

Date animal observed: 12/02/2021 Time animal observed: 12:40 PM

Date animal collected: 12/02/2021 Time animal collected: 10:42 AM

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

Air temp. - 13.5°C; Sal. - 10.0 ppt; Wind -S; sky - partly cloudy; Wave - slight; tide- Ebb 1
(92.5 ft)

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

Date and time of last inspection of screen: 12/02/2021; at 08:28 AM

Water temperature (°C) at site and time of observation: 9.0 °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: 100.1% /Unit 2: 98.9%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.5% /Unit 2: 99.6%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Beth Last Graham
Agency Affiliation PSEG subcontractor Email Beth.Graham@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 12 Day 02 Year 2021

DATE EXAMINED:

Month 12 Day 02 Year 2021

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 21A, 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 74.3 cm
Total length 85.1 cm
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) 4.4 cm
Interorbital width (see reverse side) 7.2 cm
Weight ☐ actual ☐ estimate 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 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). The deceased specimen was
transported back to ECSI office and placed in cold storage
waiting further direction on disposition.

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

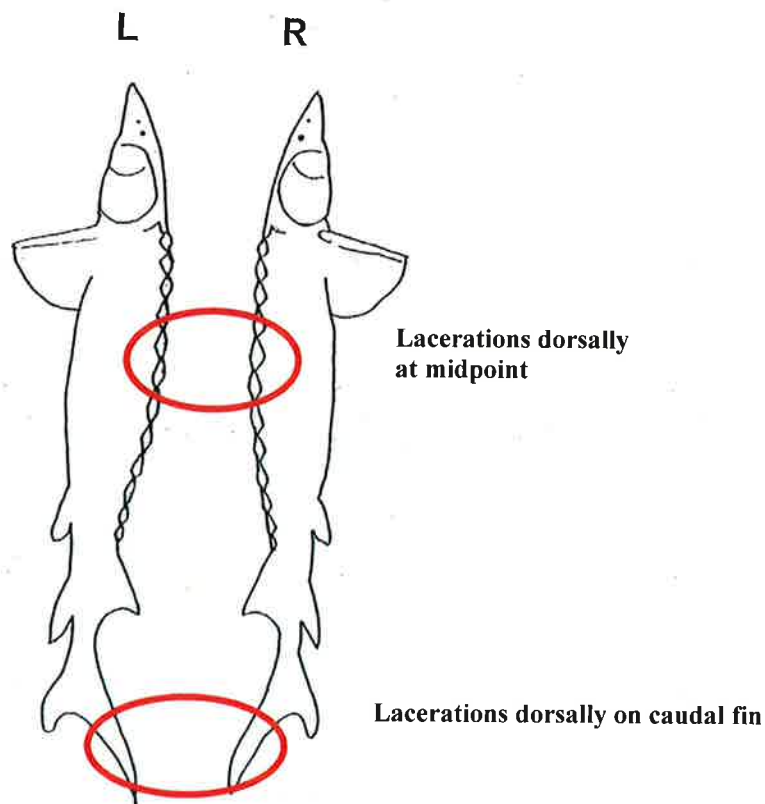
Sample
Pelvic fin clip

How preserved
stored in non-denatured ethanol
and refrigerated.

Disposition (person, affiliation, use)
Held at the Office of ECSI; waiting for further
instruction on disposition from NMFS

Comments: The deceased Atlantic sturgeon was collected outside the Salem Circulating Water Intake Structure during routine trash rack cleaning on 12/02/21, at 10:42am. Positive identification was made by Environmental Consulting Services personnel at 12:40pm. The specimen fresh dead at the time of collection. The specimen was measured, photographed, and inspected for tags, but none were found. A pelvic fin clip was collected. Upon completion of processing, the specimen was placed on ice and transported off-site to the ECSI main office. The specimen and the fin clip have been preserved and placed in cold storage, awaiting further direction on disposition from NMFS.

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. The specimen was recently deceased at the time of collection. Lacerations were noted on the dorsal side, at the midpoint. An additional laceration was observed on the dorsal side of the caudal fin.**

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

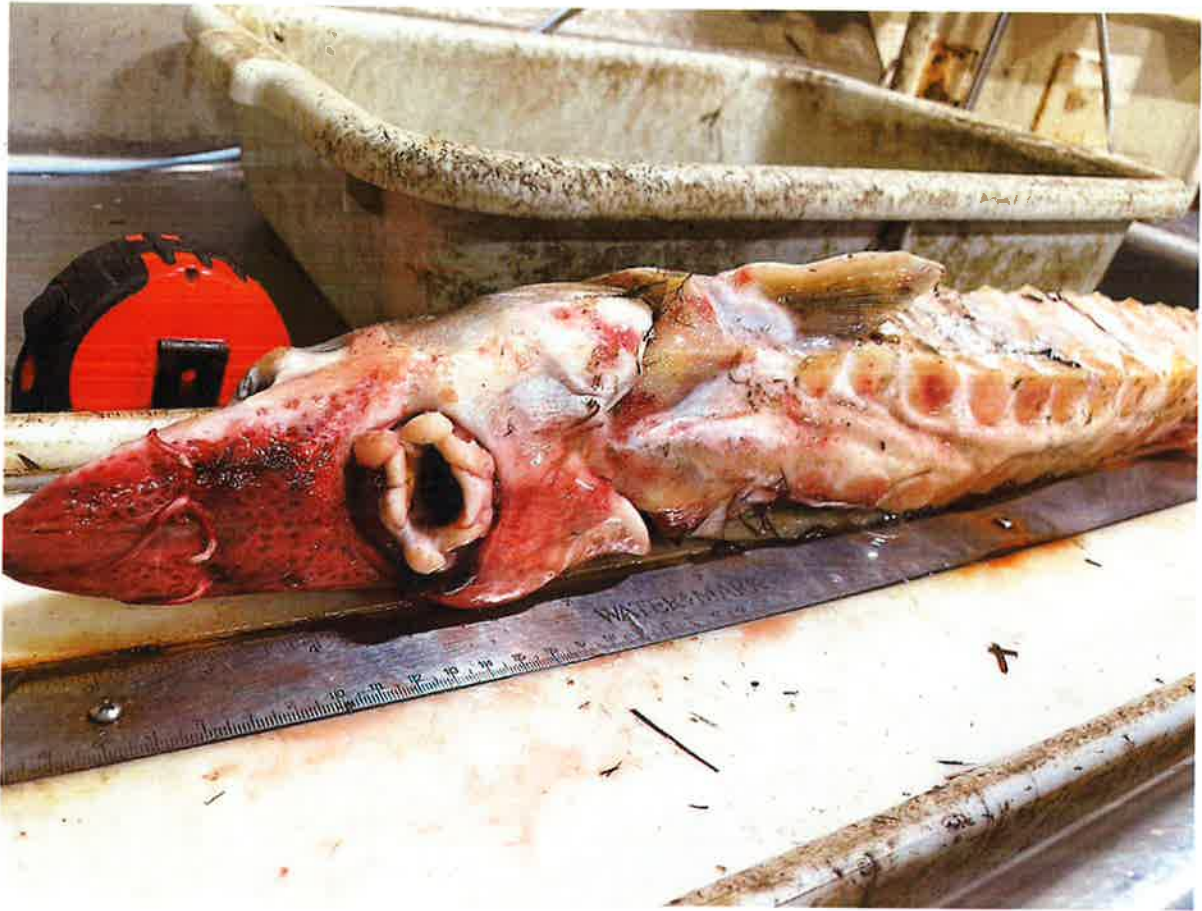


View showing the size and condition of the deceased Atlantic Sturgeon (*Acipenser oxyrinchus*), retrieved at 10:42 am on 12/02/21 by Salem Yard Crew personnel during routine trash rack cleaning at the PSEG Salem CWIB (12/02/21).



This photo provides a close-up dorsal view of the damage observed on the back. No tags were indicated during processing. A pelvic fin clip was collected and has been preserved in non-denatured ethanol. The sample and the carcass have been placed in refrigeration at the ECSI office, waiting further instruction on disposition (12/02/21).

Photographs



This photo provides a ventral view of the specimen, and shows the small mouth and elongated rostrum, each a characteristic feature of the species. (12/02/21).

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: Beth Graham (Environmental Consulting Services, Inc. [ECSI])

Reporter's full name: Beth Graham

Species Identification : Atlantic sturgeon (Acipenser oxyrinchus)

Site of Collection: PSEG Salem Generating Station; SGS Unit 1, intake 13B

Date animal observed: 12/02/2021 Time animal observed: 01:00 PM

Date animal collected: 12/02/2021 Time animal collected: 11:06 AM

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

Air temp. – 13.5°C; Sal. – 10.0 ppt; Wind –S; sky – partly cloudy; Wave – slight; tide- Ebb 1 (91.5 ft)

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

Date and time of last inspection of screen: 12/02/2021; at 08:28 AM

Water temperature (°C) at site and time of observation: 9.0 °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: 100.1% /Unit 2: 98.9%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 100.5% /Unit 2: 99.6%

STURGEON DATA COLLECTION FORM

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

OBSERVER'S CONTACT INFORMATION

Name: First Beth Last Graham
Agency Affiliation PSEG subcontractor Email Beth.Graham@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 12 Day 02 Year 2021

DATE EXAMINED:

Month 12 Day 02 Year 2021

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 13B, 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 59.7 cm
Total length 69.2 cm
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) 2.9 cm
Interorbital width (see reverse side) 4.4 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

No tag found

Location of tag on carcass

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). The deceased specimen was transported back to ECSI office and placed in cold storage waiting further direction on disposition.

Carcass Necropsied?

☐ Yes ☒ No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

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

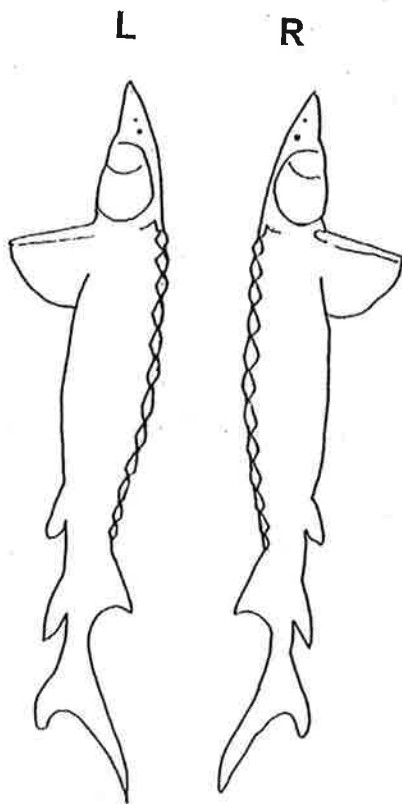
SAMPLES COLLECTED? ☒ Yes ☐ No

Sample How preserved
Pelvic fin clip stored in non-denatured ethanol and refrigerated.

Disposition (person, affiliation, use)
Held at the Office of ECSI; waiting for further instruction on disposition from NMFS

Comments: The deceased Atlantic sturgeon was collected outside the Salem Circulating Water Intake Structure during routine trash rack cleaning on 12/02/21, at 11:06am. Positive identification was made by Environmental Consulting Services personnel at 01:00pm. The specimen was fresh dead at the time of collection. The specimen was measured, photographed, and inspected for tags, but none were found. A pelvic fin clip was collected. Upon completion of processing, the specimen was placed on ice and transported off-site to the ECSI main office. The specimen and the fin clip have been preserved and placed in cold storage, awaiting further direction on disposition from NMFS.

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 recently deceased and covered in a thick layer of mud. No punctures, wounds, or abnormalities noted.**

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Photographs



View showing the size and condition of the deceased Atlantic Sturgeon (*Acipenser oxyrinchus*), retrieved at 11:06am on 12/02/21 by Salem Yard Crew personnel during routine trash rack cleaning at the PSEG Salem CWIB (12/02/21).



Another photo, providing a close-up view of the head of the specimen (12/02/21).

Photographs



This photo provides a ventral view of the specimen, and shows the small mouth and elongated rostrum, each a characteristic feature of the species. (12/02/21).