

NRR-DMPSPeM Resource

From: Strait, Kenneth A. <Kenneth.Strait@pseg.com>
Sent: Monday, March 11, 2019 9:02 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: Atlantic Sturgeon Incidental Take Report 03-08-19 #1.pdf; Atlantic Sturgeon Incidental Take Report 03-08-19 #2.pdf

Attached are the Incidental Take Report and Data Collection Forms for two live Atlantic sturgeon collected on 03/08/2019 from the Salem Generating Station cooling water intake trash bars. The live specimens were processed and returned to the river as quickly as possible. 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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Hearing Identifier: NRR_DMPS
Email Number: 859

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Subject: [External_Sender] SALEM GENERATING STATION-INCIDENTAL TAKE OF ATLANTIC STURGEON
Sent Date: 3/11/2019 9:02:20 AM
Received Date: 3/11/2019 9:02:45 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	1450	3/11/2019 9:02:45 AM
Atlantic Sturgeon Incidental Take Report 03-08-19 #1.pdf	463069	
Atlantic Sturgeon Incidental Take Report 03-08-19 #2.pdf	469900	

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: 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 1: CWI 11B

Date animal observed: 03/08/2019 Time animal observed: 09:25 am

Date animal collected: 03/08/2019 Time animal collected: 09:30 am

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

Air temp. - 2.0 °C; Sal. - 4.0 ppt; wind - NE; sky - overcast; wave - moderate; tide - Flood 2(92.0ft)

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

Date and time of last inspection of screen: 03/08/19 at 02:20am

Water temperature (°C) at site and time of observation: 3.5 °C

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

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 82.9% / Unit 2: 99.8%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 82.9% / Unit 2: 99.7%

PIT TAG

933000220017833

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 03 Day 08 Year 2019
DATE EXAMINED:
Month 03 Day 08 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 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:

Fork length 63.0 cm
Total length 74.1 cm
Length actual estimate
Mouth width (inside lips, see reverse side) 3.8 cm
Interorbital width (see reverse side) 5.6 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 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 Delaware River after processing.

Carcass Necropsied?

Yes No

Date Necropsied: _____

Necropsy Lead: _____

PHOTODOCUMENTATION:

Photos/video taken? Yes No

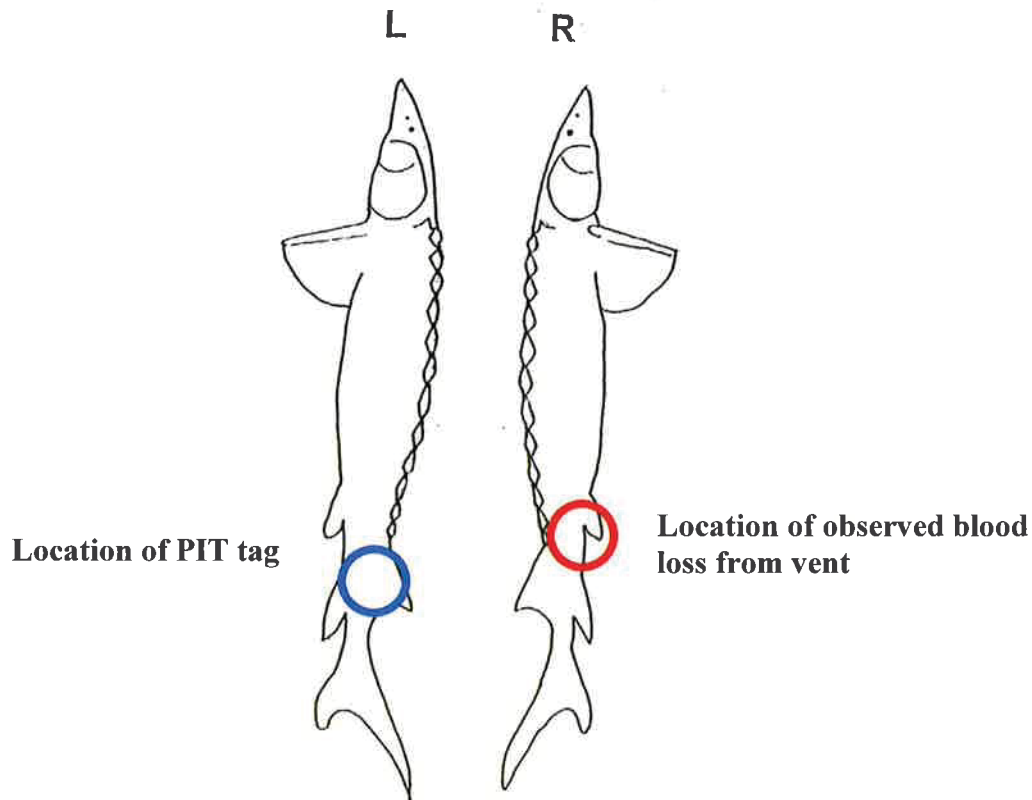
Disposition of Photos/Video PSEG Nuclear Environmental Affairs

SAMPLES COLLECTED? Yes No

Sample	How preserved	Disposition (person, affiliation, use)
<u>Pelvic fin clip</u>	<u>stored in non-denatured ethanol and then refrigerated.</u>	<u>Held at the office of ECSI for aggregated shipment to designated laboratory.</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Comments: A live, but slightly damaged Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 03/08/19, at 09:30am. Positive identification was made by Environmental Consulting Services personnel at 09:45am, and PSEG Nuclear Environmental Affairs personnel were contacted in regards to the incidental take shortly after. 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 #933000220017833. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was released back to the Delaware River.

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 at the time of collection and was found to be in good condition except for blood loss occurring from the vent. No internal or external tags were indicated during processing. PIT tagging was conducted, with placement of the tag just below the base of the dorsal fin (refer to illustration above). After processing, the specimen was released back to the Delaware River.**

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



A dorsal view showing the size and condition of the live, but slightly damaged Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 09:30am on 03/08/19 from 11B circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (03/08/2019).

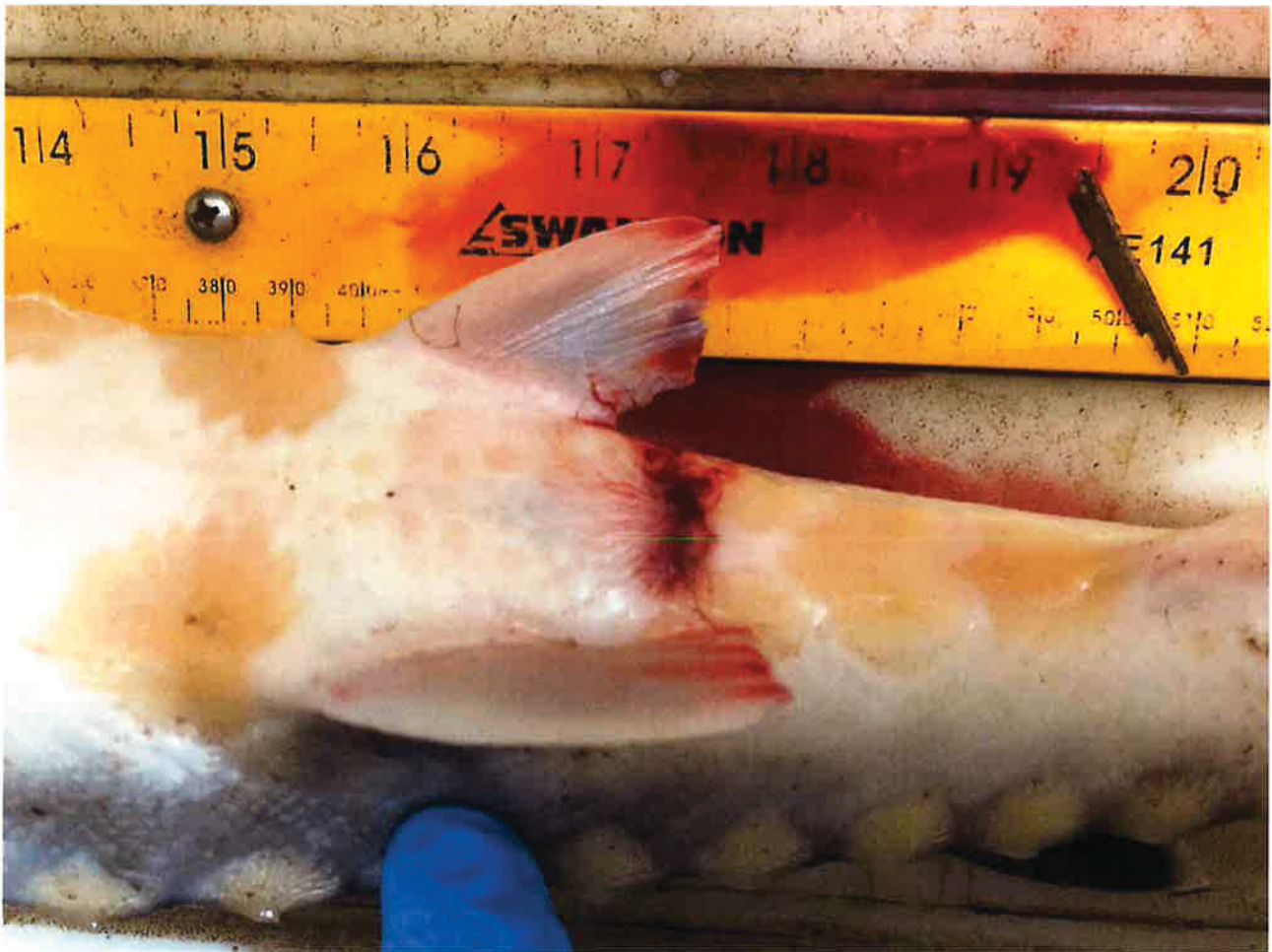


A right, dorsolateral view of the specimen. Except for some minor skin bruising and some bleeding from the vent, no other damage was observed (03/08/2019).

Photographs



Ventral view of the specimen, showing the minor skin bruising near the base of the left pectoral fin (03/08/2019).



Another ventral view of the specimen showing blood loss occurring from the vent (03/08/2019).

Photographs



Ventral view of the head, showing the characteristic small mouth and elongated rostrum (03/08/2019).

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 1: CWI 12A

Date animal observed: 03/08/2019 Time animal observed: 09:30 am

Date animal collected: 03/08/2019 Time animal collected: 09:35 am

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

Air temp. – 2.0 °C; Sal. – 4.0 ppt; wind – NE; sky – overcast; wave – moderate; tide – Flood 2(92.0ft)

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

Date and time of last inspection of screen: 03/08/19 at 02:20am

Water temperature (°C) at site and time of observation: 3.5 °C

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

Average percent of power generating capacity achieved per unit at time of observation: Unit 1: 82.9% /Unit 2: 99.8%

Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1: 82.9% /Unit 2: 99.7%

PIT TAG

933000220617816

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 03 Day 08 Year 2019
DATE EXAMINED:
Month 03 Day 08 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 12A, 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 54.3 cm
Total length 63.0 cm
Length actual estimate
Mouth width (inside lips, see reverse side) 3.3 cm
Interorbital width (see reverse side) 4.5 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) Specimen was alive and in good condition at the time of collection. It was released back to the Delaware 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

SAMPLES COLLECTED? Yes No

Sample

Pelvic fin clip

How preserved

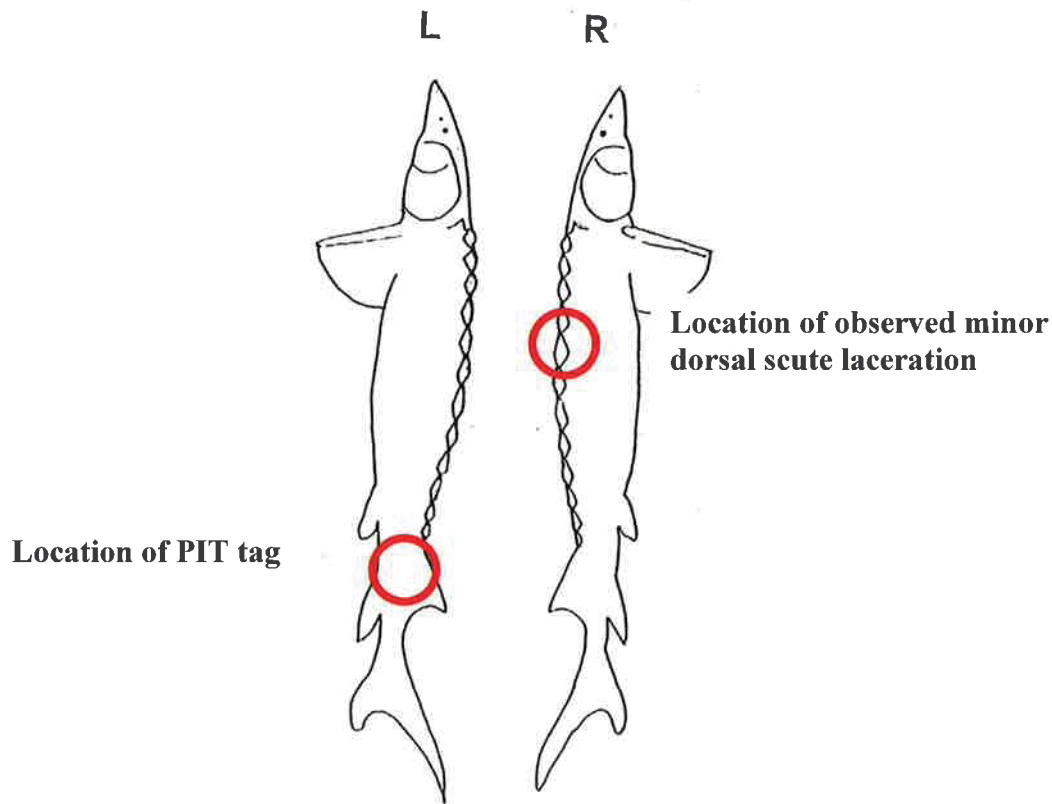
stored in non-denatured ethanol and then refrigerated.

Disposition (person, affiliation, use)

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

Comments: A second, live but slightly damaged Atlantic sturgeon was collected from the Salem Circulating Water Intake Structure during routine trash rack cleaning on 03/08/19, at 09:35am. Positive identification was made by Environmental Consulting Services personnel at 09:50am, and PSEG Nuclear Environmental Affairs personnel were contacted in regards to the incidental take shortly after. 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 #933000220017816. A pelvic fin clip was also collected for future DNA analysis. Upon completion of processing, the specimen was released back to the Delaware River.

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 at the time of collection and was found to be in good condition except for a small laceration to a dorsal scute located midway along the torso. No internal or external tags were indicated during processing. PIT tagging was conducted, with placement of the tag just below the base of the dorsal fin (refer to illustration above). After processing, the specimen was released back to the Delaware River.**

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 dorsal view showing the size and condition of the live, but slightly damaged Atlantic sturgeon (*Acipenser oxyrinchus*), retrieved at 09:35am on 03/08/19 from 12A circulator intake by Salem Yard Crew personnel during routine trash rack cleaning at Salem Nuclear Generating Station (03/08/2019).



Ventral view of the specimen, revealing no indications of damage (03/08/2019).

Photographs



Dorsal view of the specimen showing detail of a small laceration to an existing dorsal scute, located near the midpoint of the body (03/08/2019).



Dorsolateral view of the head, showing the characteristic elongated rostrum (03/08/2019).

Photographs



Ventral view of the head, showing the characteristic small mouth and elongated rostrum (03/08/2019).