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Sent: Friday, November 12, 2021 9:52 AM
To: Koperski, Meghan
Cc: Ed Hollowell; Jodie_Gless@fpl.com; Ken_Frehafer@fpl.com; Marine Turtle Permits; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Cody Mott; Jeff Guertin; Ryan Welsh; Eaton, Kristin; Jonathon Gorham; William.Nurnberger@fpl.com; audra.livergood@noaa.gov; Sciscente, Richard; Seth.Duston@fpl.com
Subject: [External_Sender] October 2021 FPL Marine Turtle Removal Monthly Report
Attachments: Monthly Report Notes 2021.pdf; October 2021 Marine Turtle Captures.pdf; FPL St. Lucie Capture Summary 2021.pdf

Mrs. Meghan Koperski
Tequesta Field Laboratory
19100 SE Federal Highway
Tequesta, FL 33469

**Subject: Marine Turtle Removal Monthly Summary
October 2021**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for October 2021. This month we captured ten *Caretta caretta* and four *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. One sea turtle was sent for rehabilitation (non-causal) and there were no mortalities during the month of October. As with all sea turtle strandings at the Saint Lucie Plant, the Florida Fish and Wildlife Conservation Commission (FWC) was consulted and stranding forms were filed with the state through the Sea Turtle Stranding and Salvage Network.

One sea turtle was sent to rehab for non-causal injuries this month. On October 10th, a juvenile green turtle was proactively captured that had a fisheries related injury. There was monofilament line wrapped around its right front flipper and neck. There were also deep wounds in the base of the flipper from the monofilament. Transported to the Gumbo Limbo Nature Center, Boca Raton by GLNC staff. After consultation with FWC, biologists transported the turtle to the Gumbo Limbo Nature Center in Boca Raton for rehab. Because this turtle's injuries were unrelated to the power plant, this was classified as a non-causal stranding.

The primary 5-inch barrier net encountered moderate amounts of algae and jellyfish this past month. On October 21st, several holes were observed in the 5-inch barrier net during a snorkel survey of the intake canal. These holes were not present during the barrier net inspections the previous month. In response, Underwater Engineering Services divers inspected and cleaned the barrier net on the following day. Four holes (three single strand and one larger 10-inch by 15-inch hole) were repaired. Additionally, Inwater Research Group biologists increased monitoring efforts beyond the 5-inch barrier net. Even still, no turtles were observed beyond the primary barrier net.

The tag numbers and morphometric data for all turtles captured during the month have been included with this report (see attachments/addendums). Also included is a spreadsheet for all captures, mortalities, injuries, and causal events delineated by species and by month for 2021. In addition, this

spreadsheet tracks fresh scrapes incurred on captured turtles for the current month, as well as the entire year.

Please feel free to contact me with any questions.

Sincerely,

Steve
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Subject: [External_Sender] October 2021 FPL Marine Turtle Removal Monthly Report
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From: Steve Weege

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MESSAGE	2750	11/12/2021 9:52:20 AM

Monthly Report Notes 2021.pdf	67943	
October 2021 Marine Turtle Captures.pdf		82582
FPL St. Lucie Capture Summary 2021.pdf		85729

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NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/19/11, and 10/3/21.
2. REHAB (NON-CAUSAL). Stranding# CMB211010-001. Juvenile green turtle proactively captured with entanglement injury. There was monofilament line around right front flipper and neck. There were also deep wounds in the base of the right front flipper from the monofilament. Transported to the Gumbo Limbo Nature Center in Boca Raton by rehab facility staff.
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/16/14 and 10/11/21. Wound in posterior carapace (20cm healed cut extends from pygals into last vertebral scute).
4. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 1).
5. Adult male loggerhead. Tail length = 510 mm.
6. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/5/19, 8/5/19, 5/19/20, 8/17/20, 3/28/21, and 10/19/21. Healed impact wound (4cm x 5cm) in right anterior carapace. New tag placed in right front flipper.
7. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/23/19, 12/15/19, 1/19/20, 7/24/20, 3/3/21, 6/8/21, 8/11/21, and 10/19/21.
8. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 2). Old wound under chin (possible hooking scar).
9. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/15/21 and 10/31/21.

SMCL = Straight Minimum Carapace Length

SMCL = Straight Standard Carapace Length

CSCCL = Curved Standard Carapace Length

CMCW = Curved Maximum Carapace Width

SMCW = Straight Maximum Carapace Width

SMPL = Straight Midline Plastron Length

**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
OCTOBER 2021**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/3/2021	<i>Chelonia mydas</i>	1	FFE427/FFE428	62.1	62.5	65.6	58.7	50.5	51.1	32.0	South net
10/5/2021	<i>Caretta caretta</i>		FFE429/FFE430	72.6	73.6	75.9	73.0	58.9	56.1	50.7	North net
10/6/2021	<i>Caretta caretta</i>		FFE432/FFE431	69.8	70.5	74.3	69.7	57.2	52.9	51.3	North net
10/8/2021	<i>Caretta caretta</i>		FFE433/FFE434	64.3	65.5	68.3	68.8	55.2	50.4	40.8	South net
10/10/2021	<i>Chelonia mydas</i>	2	CMB211010-001	35.9	36.1	37.9	35.0	33.9	29.2	6.3	Dip net
10/10/2021	<i>Caretta caretta</i>		FFE435/FFE436	54.8	55.8	58.5	55.0	47.0	43.9	28.7	South net
10/11/2021	<i>Caretta caretta</i>	3	FFE438/FFE437	75.7	77.2	78.5	74.5	58.0	59.2	56.7	South net
10/19/2021	<i>Caretta caretta</i>	4	FFE439/FFE440	67.0	69.4	71.8	66.8	55.8	53.0	43.7	South net
10/19/2021	<i>Caretta caretta</i>	5	FFE441/FFE442	97.4	97.7	101.5	96.0	79.4	71.4	130.3	North net
10/19/2021	<i>Caretta caretta</i>	6	KKL0516/FFE443	64.7	66.4	70.0	64.8	54.3	50.8	33.9	South net
10/19/2021	<i>Caretta caretta</i>	7	KKL0681/KKL0680	64.0	64.9	69.5	65.0	52.0	47.3	36.8	South net
10/23/2021	<i>Caretta caretta</i>		FFE444/FFE445	60.6	61.8	65.3	62.4	51.9	47.7	34.9	South net
10/28/2021	<i>Chelonia mydas</i>	8	FFE446/FFE447	70.4	72.0	73.8	64.5	54.6	58.3	45.1	South net
10/31/2021	<i>Chelonia mydas</i>	9	FFE423/FFE424	40.1	40.5	41.9	34.5	30.9	32.4	7.6	South net

	Loggerheads (<i>Caretta caretta</i>)		Green turtles (<i>Chelonia mydas</i>)		Hawksbills (<i>Eretmochelys imbricata</i>)		Leatherbacks (<i>Dermochelys coriacea</i>)		Kemp's ridley (<i>Lepidochelys kempii</i>)		Overall Totals	
	Oct-21	Year to Date	Oct-21	Year to Date	Oct-21	Year to Date	Oct-21	Year to Date	Oct-21	Year to Date	Oct-21	Year to Date
Captures	10	140	4	46	0	1	0	0	0	3	14	190
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Non-causal Mortalities	0	1	0	0	0	0	0	0	0	0	0	1
Causal Injuries	0	0	0	1	0	0	0	0	0	0	0	1
Sent to rehab	0	12	1	2	0	1	0	0	0	0	1	15
Fresh Scrapes												
None	1	22	0	7	0	1	0	0	0	1	1	31
Minor	9	116	4	37	0	0	0	0	0	2	13	155
Moderate	0	2	0	2	0	0	0	0	0	0	0	4
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	1.4%	0.0%	4.3%	N/A	0.0%	N/A	N/A	N/A	0.0%	0.0%	2.1%