

Balsam, Briana

From: Michael_Bresette@fpl.com
Sent: Wednesday, June 10, 2009 11:24 AM
To: Meghan.Koperski@MyFWC.com
Cc: Logan, Dennis; Ed_Hollowell@fpl.com; Shelley.Norton@noaa.gov; Vince_Munne@fpl.com; Winifred.Perkins@fpl.com; Bob.Hoffman@noaa.gov; Stacy.Foster@fpl.com; David.Niebch@fpl.com; Jodie.Gless@fpl.com
Subject: May sea turtle report
Attachments: May09.pdf; St. Lucie caps 2009.xls

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

Subject: Marine Turtle Removal Monthly Summary
May 2009

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for May 2009. In May, we captured twenty six (26) Caretta caretta and eight (8) Chelonia mydas at the intake canal of the St. Lucie power plant on South Hutchinson Island. On May 29, a loggerhead was captured that had monofilament line with multiple hooks (bait fish rig) down its throat and around its left front flipper. This turtle was transported to the Marinelife Center in Juno Beach for rehabilitation after consultation with personnel from FWCC. This incident was not considered causal to power plant operation. All other turtles that were captured in April were released on the same day of capture.

From May 9 to May 18 the primary barrier net experienced heavy loads of algae and divers were deployed to clean the net and restore it to original design specifications.

Tag numbers and morphometric data for all turtles are attached. Also, attached is a spreadsheet of all captures, mortalities, injuries and causal events delineated by species and month for 2009. This spreadsheet tracks fresh scrapes and will be helpful in determining the success of the intake pipe cleaning project. If you have any questions or comments about the enclosed data please contact me at your convenience.

Sincerely,

Michael J. Bresette
Sr. Environmental Specialist
Quantum Resources, Inc.

**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
MAY 2009**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
5/1/2009	<i>Chelonia mydas</i>			27.0	27.6	29.1	24.2	22.0	22.9	2.7	Hand capture
5/6/2009	<i>Chelonia mydas</i>		YYW215/YYW216	67.1	68.0	74.0	70.2	56.7	52.7	50.4	South net
5/7/2009	<i>Caretta caretta</i>		YYW217/YYW218	60.6	61.4	66.3	64.0	54.1	49.7	35.4	Hand capture
5/12/2009	<i>Chelonia mydas</i>	1	YYB418	52.3	52.6	55.5	52.4	44.3	44.5	20.5	South net
5/21/2009	<i>Caretta caretta</i>		YYW219/YYW220	69.6	71.3	76.0	70.7	56.0	54.7	45.9	South net
5/22/2009	<i>Chelonia mydas</i>			27.4	28.0	29.6	24.1	21.7	22.7	2.5	Dip net
5/22/2009	<i>Caretta caretta</i>	2	YYW221/YYW222	85.7	86.6	91.0	85.3	67.9	63.7	90.6	South net
5/22/2009	<i>Caretta caretta</i>	3	YYW223/YYW224	91.0	92.5	99.8	88.0	68.9	71.6	120.6	South net
5/22/2009	<i>Caretta caretta</i>		YYW225/YYW226	67.0	67.8	72.6	73.2	58.8	52.7	48.8	South net
5/23/2009	<i>Caretta caretta</i>		YYW227/YYW228	80.9	82.3	88.5	64.7	82.3	61.5	81.7	North net
5/23/2009	<i>Caretta caretta</i>		YYW229/YYW230	61.0	64.3	68.8	65.9	55.8	50.9	37.6	North net
5/23/2009	<i>Caretta caretta</i>	4	YYW231/YYW232	93.0	93.3	99.8	91.2	71.2	71.0	100.0	South net
5/23/2009	<i>Caretta caretta</i>		YYW233/YYW234	65.1	66.0	70.6	63.5	54.0	50.2	35.2	South net
5/23/2009	<i>Caretta caretta</i>		YYW235/YYW236	58.6	59.8	64.8	60.5	50.2	45.9	31.8	North net
5/24/2009	<i>Caretta caretta</i>	5	YYW237/YYW238	94.2	96.4	105.6	92.9	69.6	74.4	111.8	South net
5/24/2009	<i>Caretta caretta</i>		YYW239/YYW240	66.5	67.8	71.5	70.5	56.7	53.1	45.9	North net
5/26/2009	<i>Caretta caretta</i>		YYW241/YYW242	70.3	71.3	73.7	74.6	60.3	56.0	50.6	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
5/26/2009	<i>Caretta caretta</i>		YYW243/YYW244	71.5	73.1	78.8	77.1	59.8	55.5	55.5	North net
5/26/2009	<i>Caretta caretta</i>		YYW245/YYW246	59.1	59.8	64.5	60.6	48.3	46.5	27.7	North net
5/27/2009	<i>Caretta caretta</i>	6	YYW194/YYW195	61.1	62.2	67.7	65.7	50.2	47.8	30.2	South net
5/27/2009	<i>Caretta caretta</i>	7	YYW247/YYW248	101.8	102.1	109.9	98.4	80.0	78.6	171.0	South net
5/27/2009	<i>Caretta caretta</i>		YYW249/YYW250	56.8	58.1	63.0	61.5	50.8	44.8	30.3	South net
5/27/2009	<i>Chelonia mydas</i>		YYW251	38.2	38.7	40.6	35.9	31.9	31.6	7.5	Hand capture
5/27/2009	<i>Caretta caretta</i>		YYW252/YYW253	50.0	51.1	56.5	56.1	46.2	40.7	22.0	South net
5/27/2009	<i>Caretta caretta</i>		YYW254/YYW255	67.0	67.5	73.1	68.5	55.6	50.9	42.9	Dip net
5/27/2009	<i>Caretta caretta</i>		YYW256/YYW257	68.0	68.7	73.8	73.3	57.3	52.1	46.6	North net
5/29/2009	<i>Chelonia mydas</i>	8		37.8	37.9	40.4	32.1	28.3	31.2	7.3	Hand capture
5/29/2009	<i>Chelonia mydas</i>	9		40.9	41.0	44.4	37.8	32.2	33.1	9.3	Hand capture
5/29/2009	<i>Chelonia mydas</i>	10		49.8	50.0	52.5	44.1	38.8	41.2	16.8	Hand capture
5/29/2009	<i>Caretta caretta</i>	11	YYB282/YYB283	69.9	71.0	77.0	71.0	56.7	52.7	46.8	Hand capture
5/29/2009	<i>Caretta caretta</i>		YYW258/YYW259	64.1	65.5	70.1	65.1	53.4	51.0	37.3	Hand capture
5/29/2009	<i>Caretta caretta</i>		YYW260/YYW261	68.2	69.5	75.2	70.2	57.2	54.4	46.2	Hand capture
5/30/2009	<i>Caretta caretta</i>		YYW262/YYW263	65.4	66.4	70.9	70.1	56.5	50.1	39.0	Hand capture
5/31/2009	<i>Caretta caretta</i>		YYW264/YYW265	61.2	62.7	66.7	65.9	53.0	47.6	34.6	South net

NOTES

1. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/17/01, 5/5/03, 6/1/03, 6/18/03, 7/23/03 10/4/03, 11/7/03, 7/9/05, 10/3/05, 1/26/06, 9/12/06, 7/1/07 9/1/07 4/18/08, 5/25/08 and 8/4/08
2. Adult male Tail length = 473 mm
3. Adult female Tail length = 227 mm
4. Adult female Tail length = 200 mm
5. Adult female Tail length = 230 mm
6. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/12/09
7. Adult female Tail length = 226 mm
8. Strange PIT tag Whereabouts pending
9. Recapture Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/9/05, 9/23/05 10/29/05, 2/2/06, 4/29/06, 6/26/06, 8/16/06, 1/2/07, 10/11/07, 12/5/07, 4/11/08 and 4/16/09
10. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/25/01, 8/24/05 and 7/26/06
11. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/26/08 8/4/08, 9/11/08, 10/6/08 and 11/22/08 Turtle found with hook and fishing line in throat as well as hook in base of left front flipper. Transported to Marinelife Center by St. Lucie biologists Not causal to power plant operation

SMCL = Straight Minimum Carapace Length

SMCL = Straight Standard Carapace Length

CSCL = Curved Standard Carapace Length

CMCW = Curved Maximum Carapace Width

SMCW = Straight Maximum Carapace Width

SMPL = Straight Midline Plastron Length

(See attached file: May09.pdf)(See attached file: St. Lucie caps 2009.xls)

	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	
	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date
Captures	26	112	8	85	0	0	0	0	0	0	34	197
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	1	0	0	0	0	0	0	0	0	0	1
Sent to rehab	0	7	0	2	0	0	0	0	0	0	0	9
Fresh Scrapes	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date	May-09	Year to Date
None	9	15	2	5	0	0	0	0	0	0	11	20
Minor	15	70	6	55	0	0	0	0	0	0	21	125
Moderate	2	25	0	23	0	0	0	0	0	0	2	48
Severe	0	2	0	2	0	0	0	0	0	0	0	4
Percent with mod/sev scrapes	7.7%	24.1%	0.0%	29.4%	0.0%	#DIV/0!	0.0%	0.0%	0.0%	#DIV/0!	5.9%	26.4%