

Balsam, Briana

From: <Michael_Bresette@fpl.com> [Michael_Bresette@fpl.com]
Sent: Monday, March 10, 2008 3:26 PM
To: 'David_Niebch@fpl.com'; 'Ed_Hollowell@fpl.com'; 'Stacy_Foster@fpl.com'; 'Vince_Munne@fpl.com'; 'Winifred_Perkins@fpl.com'; 'Meghan.Koperski@MyFWC.com'; 'Bob.Hoffman@noaa.gov'; 'Shelley.Norton@noaa.gov'; Logan, Dennis
Subject: Corrected February sea turtle captures
Attachments: pic21003.gif; Feb08rep.rtf; Notes08.xls; St. Lucie caps 2008.xls

Please see the below for the correct report. The subject line was updated to February 2008. Sorry for the error. - Michael

----- Forwarded by Michael Bresette/Psl/Nuclear/FplNuc on 03/10/2008 03:24 PM -----

**Michael
Bresette** To: Meghan.Koperski@MyFWC.com, DTL1@nrc.gov,
Ed_Hollowell@fpl.com, Michael_Bresette@fpl.com,
03/10/2008 Shelley.Norton@noaa.gov, Vince_Munne@fpl.com, Winifred
03:20 PM Perkins/GC/FPL@FPL, Bob.Hoffman@noaa.gov, Stacy
Foster/GC/FPL@FPL, David Niebch/Psl/Nuclear/FplNuc@FPLNUC
cc:
Subject: February sea turtle captures

Subject: Marine Turtle Removal Monthly Summary
February 2008

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for February 2008. In February, we captured twenty (20) Caretta caretta and twelve (12) Chelonia mydas in the intake canal of the St. Lucie power plant on South Hutchinson Island. The temporary, primary barrier net was inspected on February 28 and several gaps were found at the base of the net. These were fixed and for the following three days extensive visual surveys of the canal to the west of the net were conducted. During these surveys no sea turtles were sighted west of the temporary net. In February, one loggerhead was sent to a rehabilitation facility after consultation with FWCC personnel. The compromised condition of this turtle was not causal to power plant operation. Also in February, one loggerhead was found dead at the surface of the barrier net. This turtle was emaciated and had a heavy epibiont (barnacles, algae...etc.) load. After discussing this event with FWCC personell, it was determined that this mortality was not causal to power plant operation. All other turtles captured in February were released back to the ocean on the same day of capture.

Tag numbers and morphmetric 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 2008. This spreadsheet will be updated monthly and included in our monthly report to your agency. This spreadsheet also 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.

(See attached file: Feb08rep.rtf)(See attached file: Notes08.xls)(See attached file: St. Lucie caps 2008.xls)

**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
FEBRUARY 2008**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
2/1/2008	<i>Chelonia mydas</i>	1	YYB181	43.0	43.3	46.4	38.9	32.2	35.4	10.9	North net
2/2/2008	<i>Chelonia mydas</i>			31.4	31.6	33.6	28.4	25.6	26.2	4.0	North net
2/3/2008	<i>Chelonia mydas</i>	2	YYB158	43.8	44.3	46.8	41.5	35.0	36.5	12.0	South net
2/3/2008	<i>Caretta caretta</i>		YYB254/YYB255	66.8	68.0	72.9	71.0	60.0	53.5	40.8	South net
2/4/2008	<i>Caretta caretta</i>		YYB256/YYB257	65.8	66.6	69.1	68.4	56.9	55.6	47.2	North net
2/4/2008	<i>Caretta caretta</i>		YYB258/YYB259	55.4	57.0	61.5	58.4	46.8	44.6	30.8	North net
2/4/2008	<i>Caretta caretta</i>		YYB260/YYB261	74.1	75.8	80.7	78.5	63.6	60.2	58.1	South net
2/5/2008	<i>Caretta caretta</i>		YYB262/YYB263	70.4	71.5	78.5	70.6	57.4	54.3	51.3	North net
2/5/2008	<i>Caretta caretta</i>		YYB264/YYB265	52.5	53.6	57.1	58.2	43.9	42.7	23.1	South net
2/5/2008	<i>Caretta caretta</i>		YYB266/YYB267	60.3	61.6	66.3	63.2	50.8	49.5	33.6	South net
2/5/2008	<i>Chelonia mydas</i>	3	YYB268	56.9	57.1	60.7	55.2	44.7	46.8	24.5	South net
2/7/2008	<i>Caretta caretta</i>		YYB269/YYB270	67.2	67.7	71.9	70.0	56.3	51.0	40.8	North net
2/10/2008	<i>Chelonia mydas</i>	4	RRM837	46.4	46.5	49.9	45.9	37.4	38.0	12.6	South net
2/12/2008	<i>Chelonia mydas</i>	5	YYB271	46.0	46.4	52.3	45.9	37.1	37.7	14.8	South net
2/18/2008	<i>Chelonia mydas</i>			30.6	30.6	32.9	27.8	24.1	24.2	3.3	South net
2/18/2008	<i>Chelonia mydas</i>	6	YYB196	46.5	46.6	49.5	43.3	36.3	38.2	13.0	South net
2/19/2008	<i>Caretta caretta</i>	7		74.3	75.6	84.0	77.1	61.2	56.0	48.6	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
2/20/2008	<i>Chelonia mydas</i>			35.5	36.0	38.3	32.9	28.6	29.6	5.6	Dip net
2/21/2008	<i>Chelonia mydas</i>	8	YYB110	44.7	45.0	47.3	41.5	34.6	37.3	11.9	South net
2/21/2008	<i>Caretta caretta</i>		YYB272/YYB273	65.4	66.7	71.2	65.4	55.3	51.3	39.8	Dip net
2/22/2008	<i>Caretta caretta</i>		YYB274/YYB275	55.9	56.1	59.9	59.2	48.6	43.8	25.8	South net
2/24/2008	<i>Caretta caretta</i>	9		66.4	67.1	74.4	69.8	56.2	51.6	34.5	Barrier net
2/25/2008	<i>Chelonia mydas</i>			30.2	30.7	32.7	28.8	25.6	25.2	3.9	Dip net
2/25/2008	<i>Caretta caretta</i>		YYB276/YYB277	66.1	67.4	73.9	69.8	54.5	51.6	40.2	South net
2/26/2008	<i>Chelonia mydas</i>	10		39.2	39.3	42.1	36.5	30.9	32.3	7.9	Hand capture
2/26/2008	<i>Caretta caretta</i>		YYB278/YYB279	60.5	61.6	66.7	62.9	52.3	47.1	32.7	Hand capture
2/26/2008	<i>Caretta caretta</i>		YYB280/YYB281	58.7	60.1	64.9	62.1	51.1	46.8	31.1	Hand capture
2/26/2008	<i>Caretta caretta</i>		YYB282/YYB283	70.2	71.4	76.4	71.2	57.3	53.2	47.3	Hand capture
2/26/2008	<i>Caretta caretta</i>		YYB284/YYB285	68.1	69.7	75.4	70.5	56.5	51.7	45.8	Hand capture
2/26/2008	<i>Caretta caretta</i>		YYB286/YYB287	57.4	58.6	64.5	61.3	50.2	44.6	27.2	South net
2/26/2008	<i>Caretta caretta</i>		YYB288/YYB289	66.4	67.6	71.5	65.7	54.4	53.8	34.4	Hand capture
2/29/2008	<i>Caretta caretta</i>		YYB290/YYB291	63.7	64.6	69.9	66.9	53.6	52.4	41.5	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
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NOTES

1. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/11/04, 9/13/05, 4/26/06, 7/16/06 and 12/3/07.
2. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/19/06, 8/14/06, 9/13/06, 11/7/06 10/13/07 and 10/29/07.
3. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/21/99, 1/17/02, 11/21/02, 12/23/03, 10/10/04, 3/30/05, 6/14/05, 7/13/05 and 8/28/07.
4. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/1/04, 11/3/04, 11/21/04, 7/8/05, 8/12/05, 9/13/05, 4/24/06, 9/29/06, 11/19/06, 12/4/06 and 12/9/07.
5. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/13/02, 9/23/04, 11/2/04, 4/18/05, 7/2/05, 8/16/05, 9/25/05, 1/18/06, 3/13/06, 7/23/06, 8/14/06, 9/10/06, 10/22/06 and 11/6/07.
6. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/7/04, 11/3/04, 11/23/04, 1/24/06 and 1/4/08.
7. Turtle hand captured at surface in intake canal. Lethargic and underweight with no wounds or abnormalities. Held overnight for pick-up by Sea World on 2/20/08. Not causal to power plant operation.
8. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/23/04, 8/11/06, 8/23/06, 9/30/06, 3/6/07, 8/19/07, 12/3/07 and 1/14/08.
9. Turtle found dead below surface of 5" mesh barrier net. Emaciated with no wounds or abnormalities. Not causal to power plant operation. Kept in freezer for future necropsy by FWCC.
10. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/10/03, 12/15/04, 8/12/05, 6/12/06, 7/31/06, 1/4/07, 9/5/07, 10/17/07 and 11/14/07.

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

	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	
	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date
Captures	20	53	12	31	0	0	0	0	0	0	32	84
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Non-causal Mortalities	1	1	0	0	0	0	0	0	0	0	1	1
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	1	3	0	0	0	0	0	0	0	0	1	3
Fresh Scrapes	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date	Feb-08	Year to Date
None	6	9	5	11							11	20
Minor	11	28	6	13							17	41
Moderate	3	17	1	7							4	24
Severe	0	0	0	0							0	0

