

**St. Andrew Bay
RESOURCE MANAGEMENT ASSOCIATION**
Post Office Box 15028
Panama City, Florida 32406
www.sabrma.org

4 November 2014

Kennard Watson, Turtle Watch Coordinator
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Dan Rowe, Director and CEO
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32417

Dear Mr. Rowe:

This letter provides results for the 2014 sea turtle nesting season on Panama City Beach. The information is provided by the St. Andrew Bay Resource Management Association (RMA) to fulfill requirements of our contract with the Bay County Tourist Development Council. Highlights of the 2014 season include:

- Largest loggerhead hatchling production since monitoring began in 1991, thanks to near-record nesting and absence of major storms.
- Increased number of strandings involving loggerheads, greens, and Kemp's ridley turtles.
- Reduced impacts from beachfront lighting on nesting and hatchling turtles, but disorientation rates remain high.
- Reduced impacts from vehicles on the beach, although authorized and unauthorized beach driving is prevalent throughout the survey area.
- Continued problems with nesting turtles encountering lounge chairs left on the beach at night.

Major results are summarized below. The attachments contain forms submitted to the Florida Fish and Wildlife Conservation Commission as part of reporting requirements under our State Permit No. 038.

Survey Area and Nourishment Activities. RMA monitors sea turtle activity along 17.6 miles of Gulf beach between St. Andrews State Park and Camp Helen State Park. Portions of the survey area were nourished in 2011 with sand pumped onto the beach from an off-shore source. Figure 1 is a map of the survey area showing the two construction areas. The western section extends about 5.3 miles from the Pinnacle Port Condo at 23223 Front Beach Road to the Seagull Villas at 17735 Front Beach Road. Nourishment operations were performed on this section between 10 October and 20 December 2011. The eastern section extends about 2 miles from the boundary of St. Andrews State Park to the Sterling Beach Condo at 6627 Thomas Drive. It was nourished during 20-31 December 2011.

Nesting and Hatchling Production. Thirty seven (37) nests and 23 non-nesting emergences (false crawls) were made by threatened loggerhead turtles during 2014, representing the third highest annual nesting since monitoring began in 1991. No crawls from other species were found. Figure 2 shows nest and false crawl locations, with each column of symbols representing crawls identified on a 0.5 mile section of

beach (GPS locations are available elsewhere in this report). Figures 3 and 4 show results of the nest evaluations and incubation periods. The nests produced 3115 hatchlings from 4017 eggs for an overall emergence success of 78% (37 evaluated nests). This is the largest annual hatchling production since monitoring began in 1991. Thirteen (13) loggerhead nests laid close to the water were moved to a higher elevation nearby within 12 hours of deposition to protect the eggs from surf flooding. The relocated nests had an overall emergence success of 81% compared to 76% for the in situ nests. Average nest size was 109 eggs (range 51 to 156), and average incubation period was 63 days (range 54 to 71). No nesting turtles were tagged this year. Tables 1-3 and Attachments 1-2 provide detailed information on each nest and false crawl, including the location and date found.

Beachfront Lighting Affecting Hatchling and Adult Turtles. Artificial lights from beachfront development represent the major threat to sea turtles on this developed beach, a threat that is being addressed by a lighting ordinance in effect throughout the survey area. Of the 30 nests that hatched at night, 1545 of 2628 hatchlings (59%) were adversely affected by artificial lights. Additionally, three adult female loggerheads were disoriented on the beach while returning to the water after nesting. These results are improved from last year, when 72% of hatchlings and six adults were affected by lights. Figure 5 shows the types of lights contributing to hatchling disorientation incidents in 2014 (see Attachment 3 for detailed results). The two largest contributors were street lights (16%) and exterior condo lights (15%). Improved communication with code enforcement officers enabled some problem lights to be fixed before nests hatched. Gulf Power is aware of the problems with street lights on Front Beach Road and proposed options to reduce the impacts. Additionally, recovery funds are available from the 2010 oil spill for use in sea turtle lighting projects in northwest Florida. However, to date, the only project selected on Panama City Beach is the Edgewater Beach Resort which converted all of its exterior lights in 2013 to turtle-friendly fixtures using recovery funds. More effort is needed to secure funds to address lighting problems in our area.

Beach Furniture Affecting Nesting Turtles. The Leave No Trace ordinance requires all personal items to be removed from the beach daily between 7 pm and 7 am, but the ordinance exempts furniture maintained by vendors. Table 4 shows results for five incidents this season where loggerheads encountered obstructions (lounge chairs, sand castle pit). Attachment 4 shows results for each incident, the most serious of which occurred at the Tidewater Beach Resort, where a loggerhead became wedged between lounge chairs while attempting to nest at night on July 15. The turtle was able to nest and return to the water after bystanders removed the chairs. Figure 6 is a picture taken by the Turtle Watch surveyor on the morning the nest was found. The Leave No Trace ordinance should be amended to require stacking of vendor-maintained items at the base of the dune (or off the beach) nightly during the nesting season. No sea turtles encountered personal items such as canopies that are covered by the ordinance.

Beach Driving Affecting Nesting and Hatchling Turtles. Beach driving is prevalent throughout the survey area and occurs during the day and night, posing numerous risks to sea turtles. Last year vehicle tire ruts trapped hatchlings at 40% of the nests where turtles were disoriented by lights. Fewer problems were encountered this year, with tire ruts affecting hatchlings at only two nests. The improved results are likely due to a number of factors, including the relatively large number of nests left in place (65% of the 37 nests). They are typically closer to the water than relocated nests and thus reduce crawl distance for the hatchlings and lower the odds of encountering tire ruts. Vehicles on the beach at night also directly threaten nesting and hatchling turtles. An incident of unauthorized nighttime beach cleaning by the contractor, Coastal Parasail, was observed in July. A similar incident in 2013 resulted in an endangered green turtle that was nearly run over by the tractor picking up trash at night. Authorized nighttime beach driving by police and emergency vehicles should follow Best Management Practices (BMPs) developed by state and federal agencies which recommend use of red-filtered headlights and low-pressure tires to avoid producing ruts.

Stranding Activities. Fourteen (14) sea turtles stranded within the survey area between May and October (Table 5). Six were threatened loggerheads, three were endangered green turtles, and five were endangered Kemp's ridley turtles. Ten were found dead on the beach and three were found dead in the surf. One Kemp's ridley was alive when caught in the surf by a fisherman and released after the hook was removed. The number of strandings is high for our survey area, which typically experiences about 5 sea turtles washing ashore dead or injured during the 6-month nesting season. The species composition also is unusual in that loggerheads, which normally comprise the bulk of strandings, represented only 43% of the total this year. Six carcasses in good condition were salvaged and will be necropsied to determine cause of death.

Nest Disturbance and Storm Effects. No poaching or predator incidents occurred this year, and only a few nests experienced flooding from high surf, thanks to the absence of tropical systems in the Gulf. In 2011 anti-predator screens were used after red fox depredated five nests on the west end of the survey area. Two red fox were trapped at Sunnyside Beach by the U.S. Department of Agriculture Wildlife Services, and no incidents or evidence of red fox have been observed since. As a result, nest screening was discontinued this year. With regard to storm effects, two nests were partially washed away (33, 35) and five were washed by surf (9, 14, 22, 23, 28). All but one of the washed nests produced hatchlings. The lack of severe storms contributed to the record hatchling production.

If you have questions, please contact me during business hours at (850) 234-4643 or at pcbturtle@yahoo.com. Thanks.

Sincerely,

Kennard Watson

Kennard Watson
Turtle Watch Coordinator

cc: Linda Brown (COE Mobile), Lisa Lehnhoff (FWS Panama City), Meghan Koperski (FWC Tequesta), Kristen Sella (FWC Tallahassee), Beth Brost (FWRI St Petersburg), Ed Smith (Bay County Manager), Dan Shaw (Bay County Asst Manager), Martin Jacobson (Community Development Manager), Jim Muller (Bay County RESTORE Act Coordinator), Scott Hair (Bay County Code Enforcement Manager), Jenny McNemar (Bay County Code Enforcement), Mario Gisbert (Panama City Beach City Manager), James Tindle (Panama City Beach Code Enforcement), Lisa Armbruster (Sustainable Beaches), Linda Fitzhugh (RMA), Jeff Whitton (RMA)

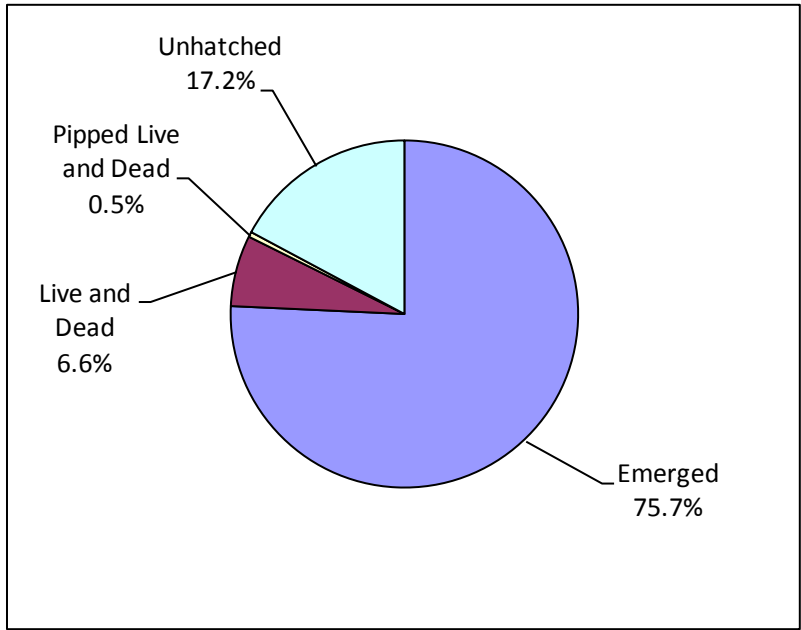
Attachments: (1) Nesting reports, (2) Nest productivity and nourishment monitoring worksheets, (3) Disorientation incident reports, (4) Obstructed Nesting Attempt reports.



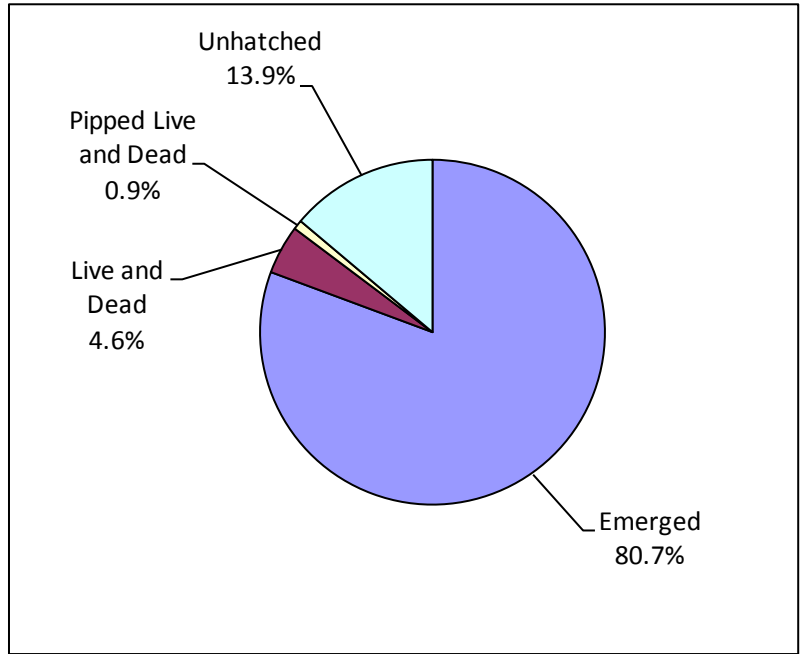
Figure 1. Map of 17.6 mile survey area showing two nourished beach sections.



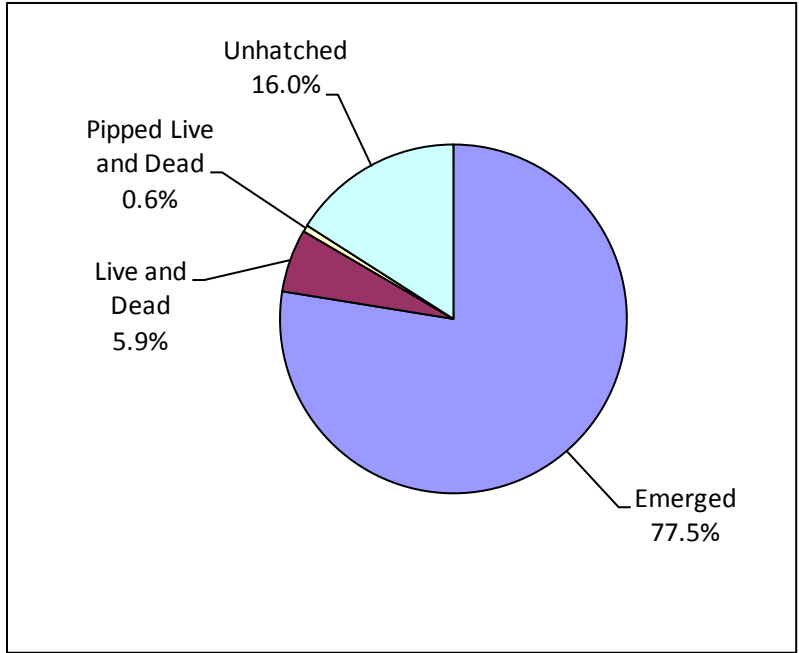
Figure 2. Loggerhead nest and false crawl locations on Panama City Beach in 2014.



(a) In situ nests (24)



(b) Relocated nests (13)



(c) All nests (37)

Figure 3. Emergence success for loggerhead nests on Panama City Beach in 2014. Contents are unhatched eggs, live and dead hatchlings found in nest, pipped eggs where hatchling partially broke free of shell, and emerged hatchlings that escaped the nest.

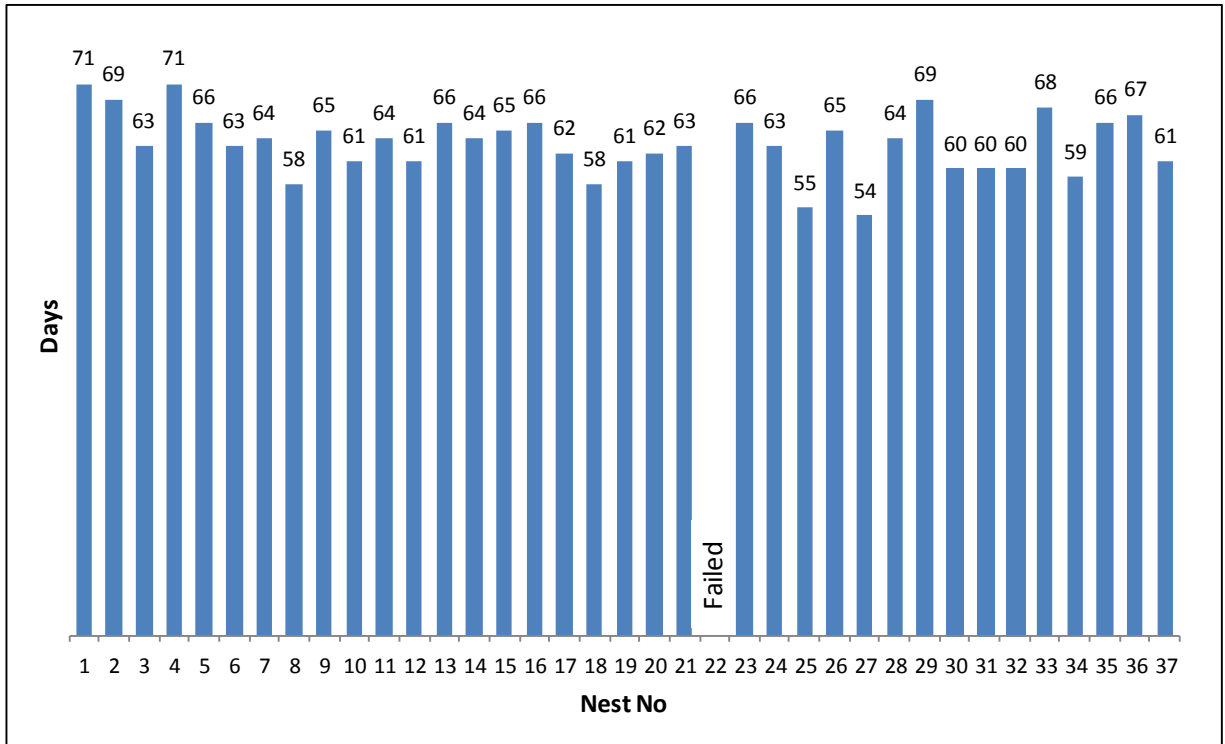


Figure 4. Loggerhead incubation periods on Panama City Beach in 2014 (36 nests).

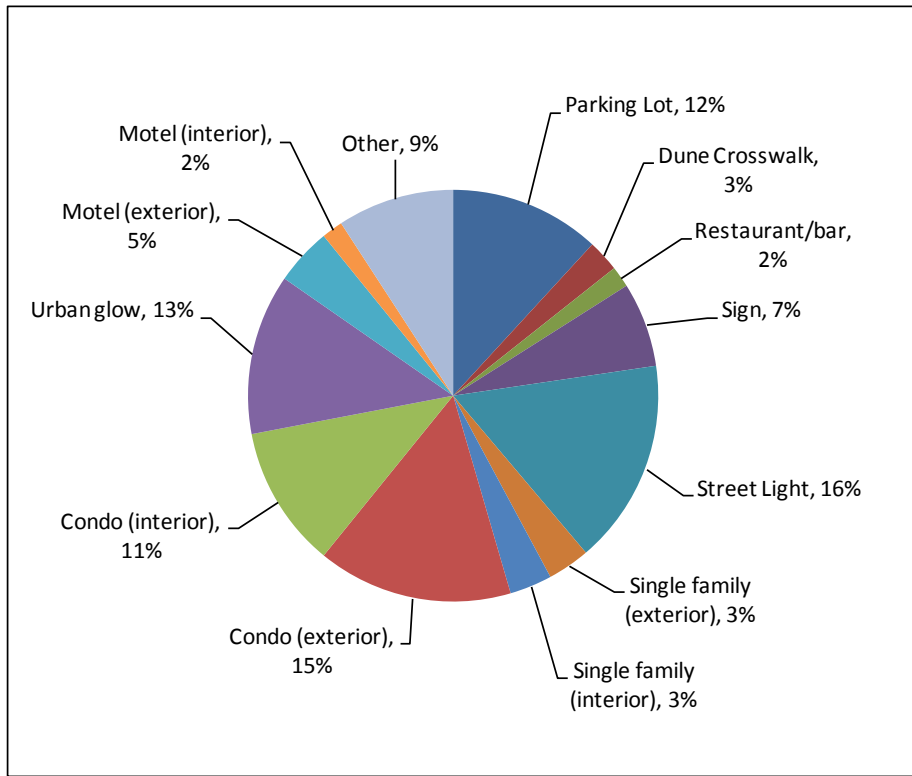


Figure 5. Lights contributing to loggerhead hatchling disorientation incidents on Panama City Beach in 2014 (20 nests).



Figure 6. Loggerhead nest and lounge chairs at Tidewater Condominium.

Table 1. Nest locations and hatching information for loggerhead nests identified on Panama City Beach in 2014. Latitude/longitude data were obtained from a GPS unit unless otherwise noted.

Nest No.	Address	In Situ or Relocated	Date Laid	Date Hatch	Incubation (days)	Eggs	Emerge	Latitude	Longitude
1	Edgewater Beach Resort, 11212 Front Beach Rd	Relocated	9-Jun	18-Aug	71	51	43	30.18553	-85.82422
2	Ramsgate Condo, 23011 Front Beach Rd	In situ	11-Jun	18-Aug	69	87	79	30.25995	-85.97368
3	House, 20816 Front Beach Rd	Relocated	12-Jun	13-Aug	63	92	90	30.24827	-85.94580
4	Sandpiper Beacon Resort, 17403 Front Beach Rd	In situ	16-Jun	25-Aug	71	133	117	30.22742	-85.90170
5	House, 20608 Front Beach Rd	In situ	20-Jun	25-Aug	66	133	118	30.24533	-85.93943
6	Townhouse, 5920 Gulf Dr	In situ	22-Jun	23-Aug	63	86	74	30.14714	-85.76334
7	House, 14204 Front Beach Rd	In situ	26-Jun	29-Aug	64	109	58	30.20157	-85.85255
8	House, 298 Beachside Dr	Relocated	26-Jun	22-Aug	58	122	91	30.26372	-85.98315
9	Seascape Inn, 14929 Front Beach Rd	In situ	27-Jun	31-Aug	65	133	120	30.20687	-85.86243
10	Grandview Condo, 10713 Front Beach Rd	In situ	29-Jun	28-Aug	61	93	61	30.17890	-85.81249
11	Seachase Condo, 17351 Front Beach Rd	Relocated	30-Jun	1-Sep	64	91	77	30.22557	-85.89799
12	House, 21312 Front Beach Rd	In situ	30-Jun	29-Aug	61	93	84	30.25062	-85.95101
13	Fontainebleau Terrace, 14401 Front Beach Rd	In situ	1-Jul	4-Sep	66	108	102	30.20266	-85.85444
14	House, 19400 Front Beach Rd	In situ	1-Jul	2-Sep	64	118	1	30.23789	-85.92326
15	Shoreline Villas, 23007 Front Beach Rd	In situ	2-Jul	4-Sep	65	88	72	30.25964	-85.97308
16	Townhouse, 22401 Front Beach Rd	Relocated	3-Jul	6-Sep	66	118	118	30.25693	-85.96627
17	House, 19907 Front Beach Rd	Relocated	6-Jul	5-Sep	62	125	95	30.24084	-85.92985
18	Schooner's, 5121 Gulf Dr	Relocated	6-Jul	1-Sep	58	110	103	30.14066 (see note)	-85.75498 (see note)
19	Pineapple Villas, 19979 Front Beach Rd	In situ	6-Jul	4-Sep	61	101	98	30.24207	-85.93208
20	Ramsgate Condo,	In situ	8-Jul	7-Sep	62	156	141	30.2601	-85.97404

	23011 Front Beach Rd								
21	Townhouse, 7901 Surf Dr	Relocated	10-Jul	10-Sep	63	113	85	30.15995	-85.78112
22	Tidewater Beach Resort, 16819 Front Beach Rd	In situ	15-Jul	UNK	UNK	123	0	30.21985	-85.88631
23	House, 387 Beachside Dr	In situ	16-Jul	19-Sep	66	73	51	30.26147	-85.97734
24	Pinnacle Port Condo, 23223 Front Beach Rd	In situ	18-Jul	18-Sep	63	101	97	30.26544	-85.98704
25	Moonspinner Condo, 4425 Thomas Dr	Relocated	20-Jul	12-Sep	55	128	118	30.13437	-85.7472
26	Beachcomber by the Sea Motel, 17101 Front Beach Rd	In situ	21-Jul	23-Sep	65	84	75	30.22135	-85.8893
27	Pinnacle Port Condo, 23223 Front Beach Rd	Relocated	22-Jul	14-Sep	54	105	45	30.26538	-85.98698
28	House, 17885 Front Beach Rd	In situ	27-Jul	28-Sep	64	106	59	30.23498	-85.91711
29	House, 17485 Front Beach Rd	In situ	29-Jul	6-Oct	69	85	81	30.22779	-85.90244
30	House, 5407 Gulf Dr	In situ	4-Aug	2-Oct	60	132	130	30.14327	-85.75819
31	House, 5407 Gulf Dr	Relocated	4-Aug	2-Oct	60	143	134	30.14326	-85.75831
32	Moonspinner Condo, 4425 Thomas Dr	In situ	5-Aug	3-Oct	60	95	72	30.13397	-85.74663
33	House, 19907 Front Beach Rd	In situ	7-Aug	13-Oct	68	95	80	30.2409	-85.92971
34	House, 4723 Spyglass Dr	Relocated	8-Aug	5-Oct	59	144	127	30.137	-85.75035
35	House, 21010 Front Beach Rd	In situ	9-Aug	13-Oct	66	112	63	30.2487	-85.94684
36	House, 298 Beachside Dr	Relocated	17-Aug	22-Oct	67	137	67	30.26363	-85.98299
37	Mariner West Condo, 6213 Thomas Dr	In situ	27-Jul	25-Sep	61	94	89	30.14977	-85.7668

Note: Surveyor forgot to take GPS data. latitude and longitude estimated from Google Earth.

Table 2. Loggerhead false crawl locations and crawl dates on Panama City Beach in 2014. Latitude/longitude data were obtained from a GPS unit unless otherwise noted.

Crawl No.	Address	Crawl Date	Latitude	Longitude
1	House, 13908 Front Beach Rd	12-May	30.20073	-85.85109
2	Dunes of Panama Condo, 7205 Thomas Dr	3-Jun	30.15733	-85.77712
3	Surfside Christian Retreat, 21431 Front Beach Rd	11-Jun	30.25168	-85.95330
4	Flamingo Motel, 15525 Front Beach Rd	14-Jun	30.21083 (see note)	-85.86980 (see note)
5	House, 5309 Gulf Dr	20-Jun	30.14190	-85.75661
6	House, 19404 Front Beach Rd	21-Jun	30.23798	-85.92356
7	Ocean Reef Condo, 14415 Front Beach Rd	28-Jun	30.20337	-85.85578
8	Wyndham Beach Resort, 14700 Front Beach Rd	28-Jun	30.20541	-85.85974
9	Legacy by the Sea Condo, 15325 Front Beach Rd	28-Jun	30.20871	-85.86584
10	Store, 15514 Front Beach Rd	28-Jun	30.21057	-85.86930
11	House, 5603 Gulf Dr	28-Jun	30.14407	-85.75941
12	Venture Out, 4345 Thomas Dr	28-Jun	30.13522	-85.74832
13	House, 20707 Front Beach Rd	1-Jul	30.24619	-85.94131
14	House, 22105 Front Beach Rd	1-Jul	30.25499	-85.96178
15	Ramsgate Condo, 23011 Front Beach Rd	1-Jul	30.26036	-85.97491
16	Hooter's, 12709 Front Beach Rd	2-Jul	30.19315	-85.83697
17	Edgewater Beach Resort, 11212 Front Beach Rd	2-Jul	30.18465	-85.82259
18	Shores Condo, 22519 Front Beach Rd	4-Jul	30.25839	-85.96966
19	House, 13800 Front Beach Rd	21-Jul	30.19927	-85.84852
20	Days Inn, 12818 Front Beach Rd	21-Jul	30.19398	-85.83894
21	Tidewater Condo, 16819 Front Beach Rd	21-Jul	30.22007	-85.88696
22	House, 321 Beachside Dr	24-Jul	30.26308	-85.98151
23	Regency Condo, 5801 Thomas Dr	5-Aug	30.14624	-85.76215

Note: GPS unit failed, lat/lon estimated from Google Earth

Table 3. Loggerhead nest excavation data on Panama City Beach in 2014. Emergence success is defined as the number of emerged hatchlings divided by the total number of eggs. Rows in red are nests partially washed away by storms.

Nest No.	Eggs	Emerged	Live in Nest	Dead in Nest	Pipped Live	Pipped Dead	Unhatch	Emergence Success	Relocated or in situ
1	51	43	1	0	0	0	7	0.84	Relocated
2	87	79	0	0	0	0	8	0.91	In situ
3	92	90	0	0	0	0	2	0.98	Relocated
4	133	117	4	0	0	0	12	0.88	In situ
5	133	118	5	0	0	0	10	0.89	In situ
6	86	74	0	0	0	0	12	0.86	In situ
7	109	58	1	1	0	0	49	0.53	In situ
8	122	91	4	0	0	0	27	0.75	Relocated
9	133	120	0	2	0	0	11	0.90	In situ
10	93	61	8	1	0	0	23	0.66	In situ
11	91	77	0	0	0	0	14	0.85	Relocated
12	93	84	0	0	0	0	9	0.90	In situ
13	108	102	0	0	0	0	6	0.94	In situ
14	118	1	0	93	0	3	21	0.01	In situ
15	88	72	0	1	0	0	15	0.82	In situ
16	118	118	0	0	0	0	0	1.00	Relocated
17	125	95	19	1	2	1	7	0.76	Relocated
18	110	103	0	0	0	0	7	0.94	Relocated
19	101	98	0	0	0	0	3	0.97	In situ
20	156	141	8	0	0	0	7	0.90	In situ
21	113	85	2	0	0	2	24	0.75	Relocated
22	123	0	0	0	0	0	123	0.00	In situ
23	73	51	0	0	0	0	22	0.70	In situ
24	101	97	0	0	0	0	4	0.96	In situ
25	128	118	0	0	0	1	9	0.92	Relocated
26	84	75	0	0	0	0	9	0.89	In situ
27	105	45	0	0	0	0	60	0.43	Relocated
28	106	59	5	0	0	0	42	0.56	In situ
29	85	81	1	0	0	0	3	0.95	In situ
30	132	130	1	0	0	0	1	0.98	In situ
31	143	134	0	0	0	0	9	0.94	Relocated
32	95	72	0	0	0	0	23	0.76	In situ
33	95	80	0	6	0	2	7	0.84	In situ
34	144	127	0	0	0	0	17	0.88	Relocated
35	112	63	0	29	0	7	13	0.56	In situ
36	137	67	41	0	7	0	22	0.49	Relocated
37	94	89	2	0	0	0	3	0.95	In situ
TOTAL	4017	3115	102	134	9	16	641	0.78	

Table 4. Obstacles encountered by loggerheads during nesting attempts on Panama City Beach in 2014. Latitude/longitude data were obtained from a GPS unit.

Crawl No.	Crawl Type	Address	Latitude	Longitude	Incident Date	Obstacles Encountered
22	Nest	Tidewater Beach Resort, 16819 Front Beach Rd	30.21985	-85.88631	15-Jul	lounge chairs
26	Nest	Beachcomber by the Sea Motel, 17101 Front Beach Rd	30.22135	-85.88930	21-Jul	lounge chairs
32	Nest	Moonspinner Condo, 4425 Thomas Dr	30.13397	-85.74663	5-Aug	lounge chairs
21	False crawl	Tidewater Beach Resort, 16819 Front Beach Rd	30.22007	-85.88696	21-Jul	sand castle pit
23	False crawl	Regency Condo, 5801 Thomas Dr	30.14624	-85.76215	5-Aug	lounge chairs

Table 5. Sea turtle strandings on Panama City Beach from 1 May to 31 October 2014. Latitude/longitude data were obtained from a GPS unit.

No.	Date	Location	Latitude	Longitude	Species	Shell Length (inches)	Final Disposition
1	5-May	Schooners, 5121 Gulf Dr	30.14095	-85.75545	Loggerhead	38	Disposed in landfill
2	10-May	Ocean Towers Condo, 11211 Front Beach Rd	30.18277	-85.81937	Green	28.2	Disposed in landfill
3	10-Jun	Long Beach Resort, 10511 Front Beach Rd	30.17783	-85.81112	Loggerhead	31	Disposed in landfill
4	11-Jun	Gulf Crest Condo, 8715 Surf Dr	30.16645	-85.79083	Green	19.2	NMFS
5	13-Jun	Palmetto Inn, 17255 Front Beach Rd	30.22393	-85.89496	Kemp's ridley	UNK	Released into Gulf
6	13-Jun	Seahaven Condo, 15100 Front Beach Rd	30.20837	-85.86542	Kemp's ridley	24.7	Disposed in landfill
7	13-Jun	Splash Condo, 17729 Front Beach Rd	30.22819	-85.90289	Kemp's ridley	22	NMFS
8	15-Jun	Aquavista Condo, 17155 Front Beach Rd	30.22270	-85.89230	Kemp's ridley	15	Disposed in landfill
9	27-Jun	Dan Russell Pier	30.21460	-85.87728	Loggerhead	29.2	NMFS
10	9-Jul	Holiday Inn SunSpree, 11127 Front Beach Rd	30.18188	-85.81821	Green	13.6	NMFS
11	19-Jul	Grandview Condo, 10713 Front Beach Rd	30.17937	-85.81366	Kemp's ridley	21.2	NMFS
12	16-Oct	House, 21208 Front Beach Rd	30.24978	-85.94925	Loggerhead	29.8	NMFS
13	26-Oct	Seltzer County Park, Thomas Dr	30.15805	-85.77847	Loggerhead	34.1	Disposed in landfill
14	27-Oct	Dunes of Panama Condo, 7205 Thoms Dr	30.15638	-85.77498	Loggerhead	UNK	Disposed in landfill

Attachment 1

Nesting reports

4 November 2014

Prepared by:

Kennard Watson
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Prepared for:

Dan Rowe
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32413



**FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
FISH AND WILDLIFE RESEARCH INSTITUTE
SEA TURTLE NESTING REPORT FOR 2014**

1. PRINCIPAL PERMIT HOLDER INFORMATION

Principal Permit Holder:		Permit Number:	
Organization:			
Address:			
County:		Email Address:	
Day Telephone (include area code):		Night Telephone:	
Beach Name:			
Point of Contact & Phone #		Email Address for Point of Contact: (if different from above)	

2. GENERAL SURVEY INFORMATION

Survey Boundary Information: Please describe survey boundaries geographically. If boundaries have changed, please enter the new boundaries in the space below. Be specific and use known landmarks that can be found on a map (or include a marked map).

Beginning Survey Boundary:			
Ending Survey Boundary:			
Beach Length: KM (miles):		Was this the same survey area as last year? (Y or N)	

IF NO, please explain the specific differences, new survey length, AND why the survey area changed:

Start Date of Survey (mm/dd/yy):		End Date of Survey (mm/dd/yy):	
Time of Day Surveyed: Start (include AM or PM)		Finish (include AM or PM)	
Number of Days Per Week Surveyed:			
Total # of Days Surveyed in 2014 (this is the total # of days between start and end dates MINUS any missed days):			

If you did not survey 7 days per week throughout the nesting season, please describe your survey schedule (how many days per week, what days of the week). It is recommended to adhere to a fixed schedule if 7 days/week is not possible (e.g., 5 days/week every week), and these days would preferably be consecutive.

If you did not survey 7 days per week, how were tracks counted on the day that surveys resumed after a missed day?

Were all non-nesting crawls (false crawls) counted during your survey? Yes or No	
How many people were involved in surveying your nesting beach this season?	

3. NESTING BEACH MANAGEMENT INFORMATION

Do you collect GPS data for your nests? (Y / N)		Do you save (electronic or paper files) these data? (Y/N)	
If nests were RELOCATED, were they relocated Individually (Ex: simply moving the nest directly landward of the original location or otherwise maintaining natural nest spacing) or in a Group with other relocated nests (i.e., self-releasing and/or restraining hatchery)?			
Please give reasons for relocating nests. (Example: nest located below high tide line, in high foot traffic area, etc.)			
If a HATCHERY was used, please give reasons AND specific location:			

4. FATE OF NEST INFORMATION

How many nests were marked?	
How many marked nests were negatively affected by predators other than humans during the course of the season? Note: this includes both partially and completely predated nests	
List all non-human predators that were documented predated nests this season:	
If predator control methods <i>other than screening/caging</i> were employed, please describe below:	
How many marked nests were negatively affected by the nesting female or another nesting sea turtle?	
How many marked nests were negatively affected by roots (<i>i.e., damaged eggs, impeded hatchling emergence</i>)?	
How many marked nests were negatively affected by erosion, accretion, inundation, and storm-related events PRIOR to hatching? <i>Note: this <u>does not</u> include stake loss.</i>	
Please give details:	
How many marked nests were taken or disturbed by humans (Example: nest dug into, eggs removed, etc.)? <i>Note: this <u>does not</u> include stake removal.</i>	
Please give details:	
If human disturbances occurred, were they reported to law enforcement? Yes or No	
Unmarked Nests: If known, please enter any comments regarding fate of unmarked nests on your beach. (Example: 14 unmarked nests were predated by raccoons, etc.)	
How many disorientation events occurred on this survey area in 2014?	
If disorientation events occurred, have all disorientation reports been submitted to FWC? Yes or No	

I certify the above information to be true and accurate to the best of my knowledge. **(type in name & date)**

	Date:
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**FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
FISH AND WILDLIFE RESEARCH INSTITUTE
SEA TURTLE NESTING REPORT FOR 2014**

1. PRINCIPAL PERMIT HOLDER INFORMATION

Principal Permit Holder:	Permit Number:
Beach Name:	

2. GENERAL NESTING DATA for All nests on this survey area (Marked, Unmarked, & Misidentified Nests)

	<i>C. caretta</i> (Loggerhead)	<i>C. mydas</i> (Green Turtle)	<i>D. coriacea</i> (Leatherback)	<i>E. imbricata</i> (Hawksbill)	<i>L. kempii</i> (Kemp's Ridley)
Total # of Nests					
Total # of Non-Nesting Emergences (False Crawls)					
Date (mm/dd/yy) of First Documented Nest					
Date (mm/dd/yy) of Last Documented Nest					

Total # of Nests Prior to 15 May:					
Total # of Nests After 31 Aug:					

Comments:	
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In the spaces below, please provide information on the initial nest treatment (e.g., in situ, screened, relocated, etc.). For example, if the initial treatment was in situ with no protection, it should be included in "(a) # of Nests left in place without additional protection" even if you later relocate the nest due to erosion.

Nest Data for nests left in place (where the turtle deposited the clutch): These nests may be left without additional protection, screened with a self-releasing flat screen, or covered with self-releasing or restraining above-ground cages.

Record the number of nests by category and species. For each species, rows a+b+c+d should equal the total number of nests left in place. Please check to make sure this is the case.	<i>C. caretta</i> (Loggerhead)	<i>C. mydas</i> (Green Turtle)	<i>D. coriacea</i> (Leatherback)	<i>E. imbricata</i> (Hawksbill)	<i>L. kempii</i> (Kemp's Ridley)
TOTAL # OF NESTS LEFT IN PLACE (a + b + c + d)					
(a) # of Nests left in Place without Additional Protection					
(b) # of Nests left in Place with Self-Releasing Flat Screen					
(c) # of Nests left in Place with Self-Releasing Cage					
(d) # of Nests left in Place with Restraining Cage					

Relocated Nest Data: Relocated nests are those where the clutch is removed from its original site of deposition and reburied at another site. These nests may be relocated to individual sites or as a group to a hatchery (a permanent or semi-permanent fenced or caged area where many nests are re-buried as a group). As with nests left in place, relocated nests may be left without additional protection, covered with self-releasing flat screen, or covered with a self-releasing for restraining above-ground cages. Hatcheries may be self-releasing (hatchlings escape unaided) or restraining (hatchlings cannot escape unaided).

Record the number of nests by category and species. For each species, rows a+b+c+d+e+f should equal the total number of relocated nests. Please check to make sure this is the case.	<i>C. caretta</i> (Loggerhead)	<i>C. mydas</i> (Green Turtle)	<i>D. coriacea</i> (Leatherback)	<i>E. imbricata</i> (Hawksbill)	<i>L. kempii</i> (Kemp's Ridley)
TOTAL # OF NESTS RELOCATED (a + b + c + d + e + f)					
(a) # of Relocated Nests without Additional Protection					
(b) # of Relocated Nests with Self-Releasing Flat Screen					
(c) # of Relocated Nests with Self-Releasing Cage					
(d) # of Relocated Nests with Restraining Cage					
(e) # of Relocated Nests to Self-Releasing Hatchery					
(f) # of Relocated Nests to Restraining Hatchery					

Additional Comments for the 2014 Season

Beach Name:

<p>Nesting Beach Management Information (e.g., predation, storms, poaching, etc.)</p>	
<p>General Nesting Data (e.g., nests, false crawls)</p>	
<p>Nest Success Data</p>	
<p>Miscellaneous Comments Regarding Data</p>	

Attachment 2

Nest productivity and nourishment monitoring worksheets

4 November 2014

Prepared by:

Kennard Watson
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Prepared for:

Dan Rowe
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32413

LOGGERHEAD NEST PRODUCTIVITY WORKSHEET

Beach Name	Permit Holder	Permit Number	Year	Nest Marking Scheme	Total # of CC Nests Marked for this Productivity Sample <small>This # should match the total # of entries listed on this worksheet.</small>	Species and Nest Label <small>Use species codes on information sheet.</small>	Beach Zone Where Nest Was Found	Date Nest Was Made <small>mm/dd/yyyy</small>	Clutch Size Counted When Nest Was Made <small>Voluntaried eggs only. If not counted on the date the nest was laid, please enter "UNK"</small>	Treatment <small>Use "treatment code" on the information sheet. Explain under "additional notes" if and when the initial treatment changed.</small>				Predated?	Rovats Invaded Eggshells?	Eggs Scattered by Another Turtle?	Vandalized?	Poached?	Nest Washed Over? (no eggs washed away)	Nest Washed Out? (eggs either washed away completely or partially)	First Emergence Date <small>If no emergence signs are noted, please leave blank.</small>	Subsequent Emergence Date(s) <small>If there were no emergences after the "first emergence", please leave blank.</small>	Was Nest Inventoried?	If Not Nest Inventoried, Why Not? <small>Examples: stakes lost, complete predation, eggs all washed away, project limitations, nest poached, could not find nest again.</small>	Date Nest was Inventoried	Hatched Eggs		Unhatched Eggs <small>hatchling still in egg</small>				Additional Notes About this Nest		
										# of Hatchlings in Nest		# of Empty Shells <small>Count shells fragments that are >50% complete. It represents hatchlings that have emerged + hatchlings left in the nest</small>	# of Pipped, But Hatchling Still In Shell													# of Whole Eggs <small>All signs of embryos inside</small>	# of Damaged Eggs <small>Damaged by predators, rots, nesting female, or during relocation.</small>							
										Dead	Live		Dead															Live						
Panama City	Kennard Watson	38	2014	AIH	37	CC-1	12	06/09/14	55	E	E	N													0	1	44	0	0	7	0	2 unhatched eggs collected at excavation for UCF student Simona Ceriani.		
Panama City	Kennard Watson	38	2014	AIH	37	CC-2	33	06/11/14	UNK	A	A	N														0	0	79	0	0	7	1	7 unhatched eggs collected at excavation for UCF student Simona Ceriani.	
Panama City	Kennard Watson	38	2014	AIH	37	CC-3	29	06/12/14	92	E	E	N														0	0	90	0	0	2	0	Nest cavity had odd shape, very wide with eggs only 3-4 layers deep. 2 unhatched eggs collected at excavation for UCF student Simona Ceriani.	
Panama City	Kennard Watson	38	2014	AIH	37	CC-4	23	06/16/14	UNK	A	A	N															0	4	121	0	0	11	1	10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-5	28	06/21/14	UNK	A	A	N															0	5	123	0	0	8	2	Tourists saw nesting turtle emerge from water - 10:40 pm and called police. 8 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-6	3	06/22/14	UNK	A	A	N															0	0	74	0	0	11	1	One egg discovered outside of clutch while searching for eggs on morning nest was found. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-7	16	06/26/14	UNK	A	A	N															1	1	60	0	0	34	15	Excavation revealed 16 fused egg pairs, the largest number ever seen in an excavated nest on our beach, also found lots of maggots in nest. 10 regular whole eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-8	34	06/26/14	125	E	E	N															0	4	95	0	0	24	3	10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-9	18	06/28/14	UNK	A	A	N															2	0	122	0	0	10	1	Found 1 cracked egg at top of nest when installing data logger on 6/30. Egg discarded. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-10	11	06/29/14	UNK	A	A	N															1	8	70	0	0	18	5	10 unhatched eggs collected at excavation for UCF student Simona Ceriani. Excavation revealed oblong eggs and maggots in nest.
Panama City	Kennard Watson	38	2014	AIH	37	CC-11	23	06/30/14	93	E	E	N															0	0	77	0	0	13	1	Yellowish green color on 2 bottom eggs seen during relocation. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-12	30	06/30/14	UNK	A	A	N															0	0	84	0	0	9	0	8 unhatched eggs collected at excavation for UCF student Simona Ceriani. 1 egg accidentally opened had fully formed albino hatchling.
Panama City	Kennard Watson	38	2014	AIH	37	CC-13	17	07/01/14	UNK	A	A	N															0	0	102	0	0	6	0	6 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-14	26	07/01/14	UNK	A	A	N															93	0	94	3	0	7	14	Excavation revealed 93 dead pre-emergent hatchlings. Nest was flooded the day before single hatchling emerged. 14 broken eggs suggest crab activity.
Panama City	Kennard Watson	38	2014	AIH	37	CC-15	33	07/02/14	UNK	A	A	N															1	0	73	0	0	7	8	7 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-16	32	07/03/14	123	E	E	N															0	0	118	0	0	0	0	
Panama City	Kennard Watson	38	2014	AIH	37	CC-17	27	07/06/14	125	E	E	N															1	19	115	1	2	7	0	Two notches observed on rear carapace of nesting turtle. 7 unhatched eggs collected at excavation for UCF student Simona Ceriani. 19 live turtles found during excavation were mostly at bottom of nest, some with worn coloration and deformed.
Panama City	Kennard Watson	38	2014	AIH	37	CC-18	2	07/06/14	110	E	E	N															0	0	103	0	0	6	1	Eggs on bottom of clutch had green film. Pictures taken. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani. Sand surrounding nest was compacted with significant shell hash.
Panama City	Kennard Watson	38	2014	AIH	37	CC-19	27	07/06/14	UNK	A	A	N															0	0	98	0	0	3	0	Turtle crawled near large drainage ditch before nesting. 3 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-20	33	07/08/14	UNK	A	A	N															0	8	149	0	0	4	3	4 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-21	6	07/10/14	114	E	E	N															0	2	87	2	0	23	1	Two beach chairs found stacked over nest when surveyor arrived. No damage to eggs. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-22	21	07/15/14	UNK	A	A	N															0	0	0	0	0	123	0	Nesting turtle became wedged between lounge chairs and had to be helped, according to bystanders. Volunteers arrived after turtle returned to water - 4am. Obstructed nesting attempt form completed. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani. Of the remaining ones, 71 had no embryos, 1 embryo, and 41 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-23	34	07/16/14	UNK	A	A	N															0	0	51	0	0	19	3	10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-24	35	07/18/14	UNK	A	A	N															0	0	97	0	0	4	0	Bystanders saw nesting turtle - 11 pm and called authorities, but FWC failed to notify us. 4 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-25	1	07/20/14	133	E	E	N															0	0	118	1	0	9	0	Initial egg count may be 125 or 134 (volunteers lost count). 9 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-26	22	07/21/14	UNK	A	A	N															0	0	75	0	0	9	0	Nesting turtle went around 2 sets of lounge chairs. Obstructed nesting attempt form completed. Nest hatched at sunset so no disorientation. 9 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-27	35	07/22/14	108	E	E	N															0	0	45	0	0	59	1	10 unhatched eggs collected at excavation for UCF student Simona Ceriani. Roots in nest and on a couple of eggs. Unhatched eggs not collected for research showed 54 with no obvious embryos and 5 with disassembled embryos.
Panama City	Kennard Watson	38	2014	AIH	37	CC-28	25	07/27/14	UNK	A	A	N															0	5	64	0	0	41	1	Turtle exited near a storm drain after nesting. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-29	23	07/29/14	UNK	A	A	N															0	1	82	0	0	3	0	3 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-30	3	08/04/14	UNK	A	A	N															0	1	131	0	0	1	0	Turtle abandoned egg chamber before successfully nesting a few feet up the beach, slightly disoriented on return.
Panama City	Kennard Watson	38	2014	AIH	37	CC-31	3	08/04/14	148	E	E	N															0	0	134	0	0	5	4	5 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-32	1	08/05/14	UNK	A	A	N															0	0	72	0	0	19	4	Nest found between beach chairs, obstructed nesting attempt form completed.
Panama City	Kennard Watson	38	2014	AIH	37	CC-33	27	08/07/14	UNK	A	A	N															6	0	86	2	0	5	2	Turtle crawled 102 ft before entering water after nesting. Stakes washed away during un-named storm on Oct 14, found nest with sub-meter GPS unit, 1 dead pre-emergent and 5 dead on beach. Based on number of hatched eggs, nest assumed to have hatched on night of 10/13, just before or during storm. Hatchlings found dead on beach were counted as dead in nest for evaluation purposes. 5 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-34	1	08/08/14	147	E	E	N															0	0	127	0	0	15	2	Rare daytime hatch with turtles emerging under clear skies (no rain that day), observers saw turtles emerge at 2 pm and call FWC hotline. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-35	29	08/09/14	UNK	A	A	N															29	0	92	7	0	12	1	Stakes washed away during un-named storm on Oct 14, found nest with sub-meter GPS unit, 7 dead pre-emergent and 4 dead on beach. Based on number of hatched eggs, nest assumed to have hatched on night of 10/13, just before or during storm. Hatchlings found dead on beach were counted as dead in nest for evaluation purposes. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani.
Panama City	Kennard Watson	38	2014	AIH	37	CC-36	34	08/17/14	144	E	E	N															0	41	108	0	7	15	7	Initial egg count may be in error according to surveyor who assisted. Hatchlings emerged in several small groups over period of 4 days. May have been affected by cool fall weather. At initial emergence, 30 hatchlings found on beach at 6:47 AM just outside of nest perimeter where they were motionless in cool temps. They perked up when released at water's edge. 10 unhatched eggs collected at excavation for UCF student Simona Ceriani. Excavation delayed to 5 days after initial emergence due to rain.
Panama City	Kennard Watson	38	2014	AIH	37	CC-37	4	07/27/14	UNK	A	A	UNK															0	2	91	0	0	3	0	Nest originally identified as false crawl. Crew had a small body pit which volunteers searched for eggs without success. Hatchlings found during survey on morning of 9/26. Condo pool lights contributed to disorientation. 3 unhatched eggs collected at excavation for UCF student Simona Ceriani.

*****MANDATORY FIELDS - THIS PAGE TO BE COMPLETED UPON SUBMISSION*****

PROJECT NAME:	Bay County Beach Restoration (MOD 25)
COUNTY:	BAY
DEP PERMIT NUMBER:	0128852-001-JC
DATE SAND PLACEMENT COMPLETED (mm/yyyy):	Dec-11
TYPE OF SAND PLACEMENT :	ON - Nourishment - Offshore Sand Source
LENGTH OF PROJECT/SAND PLACEMENT AREA (kilometers):	11.7 km (estimate)
LENGTH OF REFERENCE/CONTROL AREA (kilometers):	16.6 km (estimate)
YEAR OF MONITORING:	YR 3 = 3rd season following sand placement
NEST MARKING SCHEME (indicate if different for each species):	ALL
MARINE TURTLE PERMIT HOLDER(S) (name and MTP number):	Kenard Watson 038
FLORIDA DEP R-MONUMENT (start):	Eastern Reach: R-81 (30.15298; -85.770653) to R-92 (30.13296; -85.745265)
FLORIDA DEP R-MONUMENT (end):	Western Reach: R-5 (30.261495; -85.97681) to R-29 (30.231585; -85.909352)
NESTING BEACH NAME:	Panama City Beach

Species	Within Project Area	Total # of Nests Counted (Marked and Unmarked)	Total # of False Crawls Counted (Marked and Unmarked)
LOGGERHEAD	Yes	26	11
LOGGERHEAD	No	11	12
GREEN	Yes	0	0
GREEN	No	0	0
LEATHERBACK	Yes	0	0
LEATHERBACK	No	0	0

Attachment 3

Disorientation incident reports

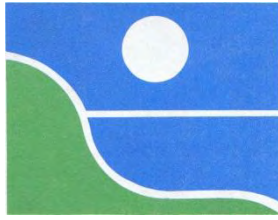
4 November 2014

Prepared by:

Kennard Watson
St. Andrew Bay Resource Management Association
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Prepared for:

Dan Rowe
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30 October 2014

Kennard Watson, Turtle Watch Coordinator
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Meghan Koperski
Florida Fish and Wildlife Conservation Commission
19100 SE Federal Highway
Tequesta, Florida 33469

Dear Meghan:

This letter summarizes results of disorientation incidents during the 2014 nesting season on Panama City Beach (Permit 038). We documented significant hatchling disorientations this season, with 1545 of 2628 loggerhead hatchlings (58.8%) affected by artificial lights at 20 nests. Additionally, three adult female loggerheads were disoriented on the beach while returning to the water after nesting. The following provides detailed results for each incident and includes a description of the survey area, methodology used to quantify disorientations, and types of lights contributing to disorientation incidents.

Survey Area, Nest Marking, and Monitoring Procedure. The survey area extends 17.6 miles from St. Andrews State Park to Camp Helen State Park. This entire area is now under a lighting ordinance, passed in 2009 by the City of Panama City Beach and Bay County. We found 37 loggerhead nests here in 2014. With one exception, all were marked with four stakes, orange survey tape, and an informational sign with the nest number. The exception was a nest left unmarked (37), because it was mistakenly identified as a false crawl. It was later identified from hatchlings tracks. We checked the marked nests for signs of emergence each morning (6-8 am), early evening (7-9 pm), and late night (10-12 pm). The early morning checks were done by the surveyors, while volunteers performed the early evening and late-night checks. The start date for nighttime monitoring was determined from the measured sand temperature in the vicinity of the nest. Nighttime monitoring of the nests is not required by our permit but is performed due to the serious lighting problems in our survey area.

Method to Quantify Hatchling Disorientations. We submit disorientation reports only for main emergences and not for small numbers of hatchlings that may emerge afterward. All reports are submitted electronically to local code enforcement officers during the season, usually within three days of the incident. Most incidents are documented during night surveys by volunteers who are at the nest when the hatchlings emerge or arrive shortly after the emergence while hatchlings are still on the beach and tracks are fresh. Volunteers collect disoriented hatchlings and estimate the number of turtles reaching the water by observing the animals or counting tracks. Volunteers note the location of lights attracting the hatchlings and document the sky condition at the time of emergence, including the presence or absence of moonlight. When volunteers are present during the emergence, the number of disoriented hatchlings is determined by how many the volunteers collect, in addition to any turtles observed reaching the water after wandering. Nest excavation data are used to adjust some disorientation estimates. For example, if

volunteers arrive after an emergence and see all tracks leading away from the water, the nest is assumed to have 100% disorientation and the number of disoriented hatchlings is obtained from the excavation data. Disoriented turtles collected at the nest site are released at Sunnyside Beach, the darkest part of our survey area.

Hatchling Disorientation Results. Table 1 shows results for 30 nests that hatched at night, including those at which no disorientation occurred. The seven remaining nests were excluded because one failed to hatch (22), three hatched during the day (26, 34, 36), and no data were obtained for three hatched nests due to surf and rain which washed away the tracks (27, 33, 35). The column for “Total Emerged” represents the main emergence which excludes stragglers that may have emerged afterwards. The column for “Local Gov” indicates the jurisdiction of the nest location, either Panama City Beach or Bay County. Information also is provided on the method used to document the hatchling emergence. Results show that 1545 of 2628 hatchlings were disoriented by artificial lights, giving a combined disorientation of 58.8%. Turtle Watch personnel observed the main emergence at 23 nests. The remaining seven nests were documented by tracks observed and hatchlings collected after the emergence.

Adult Disorientation Results. Table 2 shows results of three disorientation incidents involving adult loggerheads. For each incident, disorientation was determined based on a wandering track found during the morning survey after the turtle had returned to the water. Figure 1 shows locations of all disorientation incidents in 2014.

Lights Contributing to Hatchling Disorientation. Figure 2 shows the types of lights contributing to hatchling disorientation incidents this year. Street lights were the largest contributor at 16%, continuing a trend from previous years. Other contributors were condo exterior lights (15%), condo interior lights (11%), and parking lot lights (12%). Note that interior lights are not covered by the lighting ordinance. The figure includes a miscellaneous category called “other” which contributed 9%. Lights in this category consisted of fireworks, condo pool lights, and an outdoor vending machine.

If you have questions on the enclosed material, please contact me during business hours at (850) 234-4643 or at pcbturtle@yahoo.com. Thanks.

Sincerely,

Kennard Watson

Kennard Watson
Turtle Watch Coordinator

Attachments: 20 hatchling disorientation reports, 3 nesting turtle disorientation reports

Table 1. Nighttime loggerhead hatchling emergences on Panama City Beach in 2014 (30 nests).

Nest No.	Nearest Landmark	Incident Date	Total Emerged	Number Disoriented	Percent Disoriented	Method Used to Document Hatchling Emergence	Report Filed	Local Gov
1	Edgewater Beach Resort, 11212 Front Beach Rd	18-Aug	43	35	81%	Night survey: hatchlings observed emerging from nest	Yes	City
2	Ramsgate Condo, 23011 Front Beach Rd	18-Aug	79	68	86%	Night survey: hatchlings observed emerging from nest	Yes	County
3	House, 20816 Front Beach Rd	13-Aug	90	0	0%	Night survey: hatchlings observed emerging from nest	No	County
4	Sandpiper Beacon Resort, 17403 Front Beach Rd	25-Aug	107	107	100%	Night survey: hatchlings observed emerging from nest	Yes	City
5	House, 20608 Front Beach Rd	25-Aug	114	8	7%	Night survey: hatchlings observed emerging from nest	No	County
6	Townhouse, 5920 Gulf Dr	23-Aug	74	73	99%	Night survey: hatchlings observed emerging from nest	Yes	County
7	House, 14204 Front Beach Rd	29-Aug	46	46	100%	Morning survey: tracks identified and hatchlings collected	Yes	City
8	House, 298 Beachside Dr	22-Aug	91	70	77%	Night survey: hatchlings observed emerging from nest	Yes	County
9	Seascape Inn, 14929 Front Beach Rd	31-Aug	120	120	100%	Night survey: tracks identified and hatchlings collected	Yes	City
10	Grandview Condo, 10713 Front Beach Rd	28-Aug	61	55	90%	Night survey: hatchlings observed emerging from nest	Yes	City
11	Seachase Condo, 17351 Front Beach Rd	1-Sep	77	77	100%	Night survey: hatchlings observed emerging from nest	Yes	City
12	House, 21312 Front Beach Rd	29-Aug	84	61	73%	Night survey: hatchlings observed emerging from nest	Yes	County
13	Fontainebleau Terrace, 14401 Front Beach Rd	4-Sep	102	102	100%	Night survey: hatchlings observed emerging from nest	Yes	City
14	House, 19400 Front Beach Rd	2-Sep	1	0	0%	Night survey: bystander report	No	County
15	Shoreline Villas, 23007 Front Beach Rd	4-Sep	72	0	0%	Night survey: tracks identified	No	County
16	Townhouse, 22401 Front Beach Rd	6-Sep	118	0	0%	Night survey: hatchlings observed emerging from nest	No	County
17	House, 19907 Front Beach Rd	5-Sep	95	3	3%	Night survey: hatchlings observed emerging from nest	No	County
18	Schooner's, 5121 Gulf Dr	1-Sep	103	91	88%	Night survey: hatchlings observed	Yes	County

						emerging from nest		
19	Pineapple Villas, 19979 Front Beach Rd	4-Sep	98	67	68%	Night survey: hatchlings observed emerging from nest	Yes	County
20	Ramsgate Condo, 23011 Front Beach Rd	7-Sep	141	0	0%	Morning survey: tracks identified	No	County
21	Townhouse, 7901 Surf Dr	10-Sep	82	6	7%	Night survey: hatchlings observed emerging from nest	No	County
23	House, 387 Beachside Dr	19-Sep	51	44	86%	Night survey: hatchlings observed emerging from nest	Yes	County
24	Pinnacle Port Condo, 23223 Front Beach Rd	18-Sep	97	97	100%	Night survey: hatchlings observed emerging from nest	Yes	County
25	Moonspinner Condo, 4425 Thomas Dr	12-Sep	118	6	5%	Night survey: hatchlings observed emerging from nest	No	County
28	House, 17885 Front Beach Rd	28-Sep	59	59	100%	Night survey: hatchlings observed emerging from nest	Yes	City
29	House, 17485 Front Beach Rd	6-Oct	81	65	80%	Morning survey: tracks identified and hatchlings collected	Yes	City
30	House, 5407 Gulf Dr	2-Oct	130	62	48%	Night survey: hatchlings observed emerging from nest	Yes	County
31	House, 5407 Gulf Dr	2-Oct	134	134	100%	Night survey: hatchlings observed emerging from nest	Yes	County
32	Moonspinner Condo, 4425 Thomas Dr	3-Oct	71	0	0%	Night survey: hatchlings observed emerging from nest	No	County
37	Mariner West Condo, 6213 Thomas Dr	26-Sep	89	89	100%	Morning survey: tracks identified and hatchlings collected	Yes	County
TOTAL			2628	1545	58.8%			

Table 2. Adult loggerhead disorientation incidents on Panama City Beach in 2014 (3 nests).

Crawl No.	Crawl Type	Nearest Landmark	Incident Date	Observations	Report Filed	Local Gov
13	Nest	Fontainebleau Terrace, 14401 Front Beach Rd	1-Jul	Turtle crawled east parallel to shore about 100 ft before entering water after nesting.	Yes	City
27	Nest	Pinnacle Port Condo, 23223 Front Beach Rd	22-Jul	Turtle crawled east parallel to shore about 70 ft before entering water after nesting.	Yes	County
33	Nest	House, 19907 Front Beach Rd	7-Aug	Turtle crawled west parallel to shore about 100 ft before entering water after nesting.	Yes	County

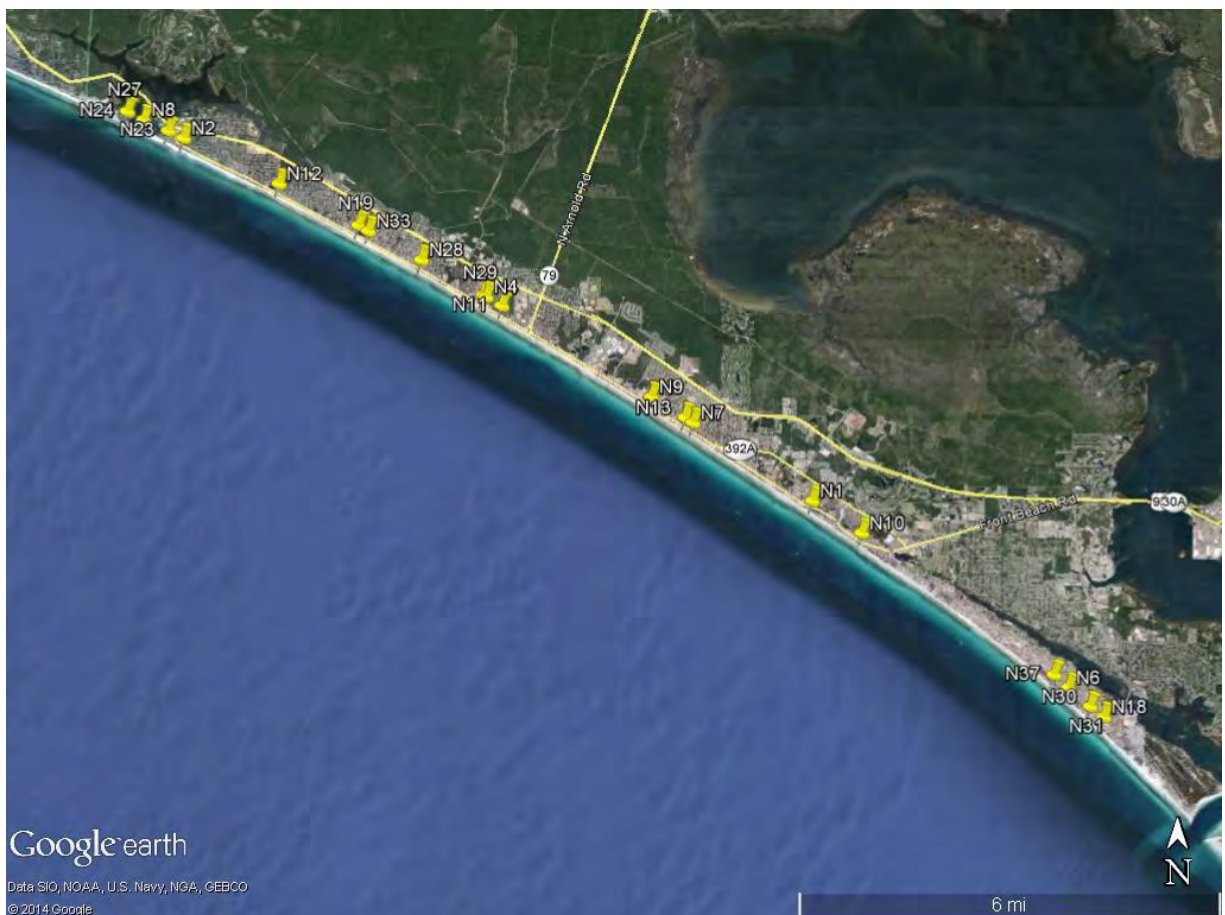


Figure 1. Map showing locations at which hatchling and adult turtle disorientation reports were filed on Panama City Beach in 2014 (33 nests).

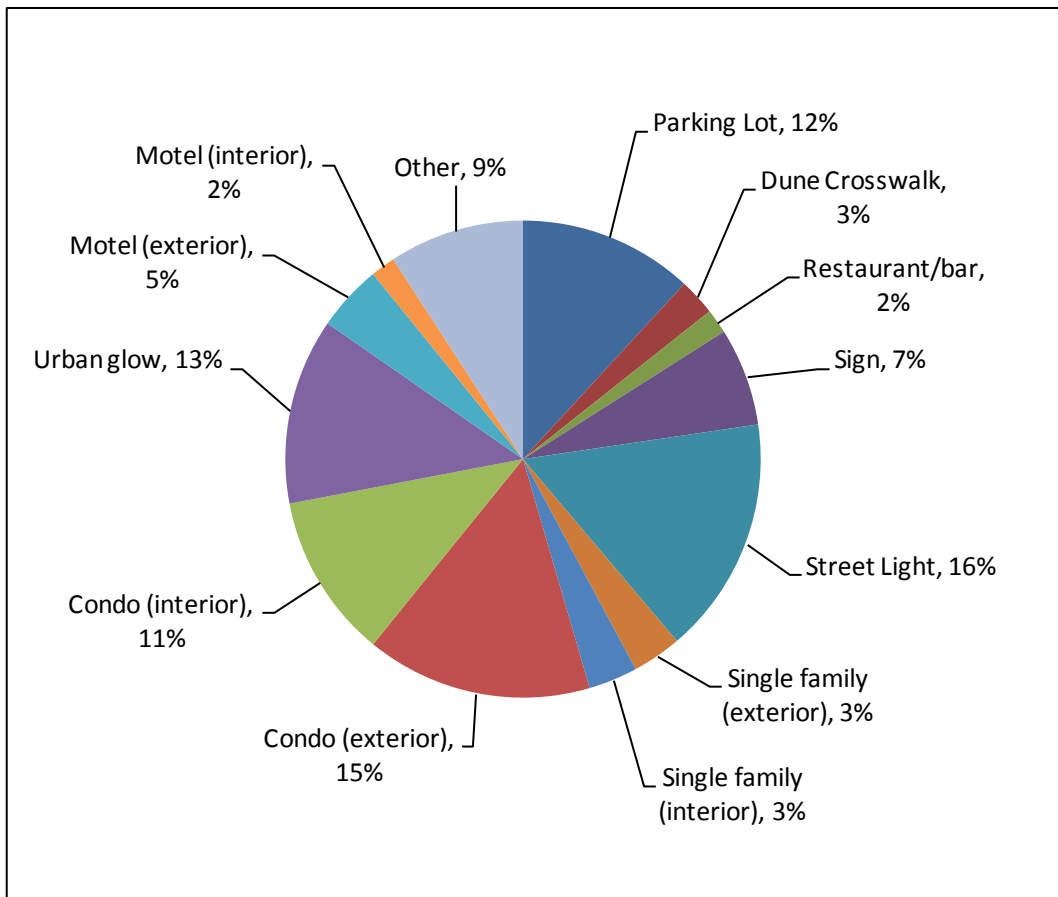


Figure 2. Lights contributing to hatchling disorientation incidents on Panama City Beach in 2014 (20 nests).

Nesting turtle disorientation incident reports

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Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: _____ Date of Incident: _____

Observer's Name: _____

Telephone (include area code): _____ E-mail address: _____

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

City: _____ County: _____

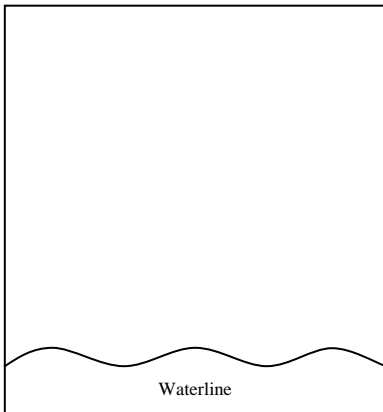
Local nest ID#: _____ Zone nest was located in: _____

Nest GPS Coordinates (*use decimal degrees: i.e., Lat 26.845412 Long -80.458796*):

Latitude: _____ Longitude: _____

SPECIES: (check one) <input type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult – Nesting Emergence <input type="checkbox"/> Adult – False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
--	---	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: _____

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input type="checkbox"/> NO <i>If "YES" indicate the number: _____</i>	

Addresses/landmarks turtle(s) disoriented towards: _____

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): _____

Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer

Date

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Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: _____ Date of Incident: _____

Observer's Name: _____

Telephone (include area code): _____ E-mail address: _____

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

City: _____ County: _____

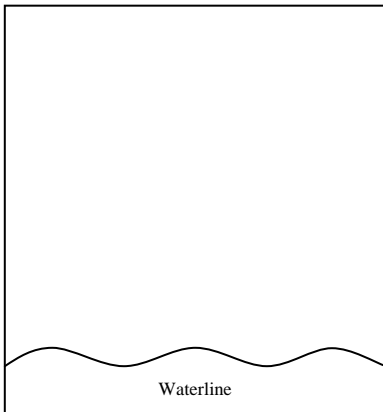
Local nest ID#: _____ Zone nest was located in: _____

Nest GPS Coordinates (*use decimal degrees: i.e., Lat 26.845412 Long -80.458796*):

Latitude: _____ Longitude: _____

SPECIES: (check one) <input type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult – Nesting Emergence <input type="checkbox"/> Adult – False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
--	---	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: _____

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: _____

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): _____

Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer

Date

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Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: _____ Date of Incident: _____

Observer's Name: _____

Telephone (include area code): _____ E-mail address: _____

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

City: _____ County: _____

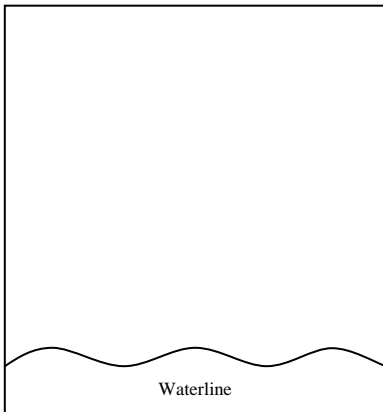
Local nest ID#: _____ Zone nest was located in: _____

Nest GPS Coordinates (*use decimal degrees: i.e., Lat 26.845412 Long -80.458796*):

Latitude: _____ Longitude: _____

SPECIES: (check one) <input type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult – Nesting Emergence <input type="checkbox"/> Adult – False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
--	---	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: _____

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input type="checkbox"/> NO <i>If "YES" indicate the number: _____</i>	

Addresses/landmarks turtle(s) disoriented towards: _____

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): _____

Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer

Date

Hatchling disorientation incident reports

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 38 Date of Incident: 8/18/2014
 Observer's Name: Lorna Patrick
 Telephone (include area code): 850-814-1470 E-mail address: timor.lorna@comcast.net

Location of Disorientation Event: (address, beach name and/or nearest landmark): 11212 Front Beach Rd Edgewater Beach Resort (west side)

City: Panama City Beach County: Bay

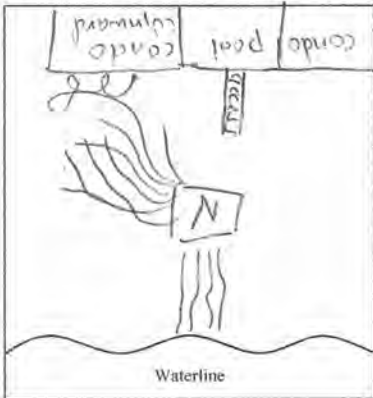
Local nest ID#: 1 Zone nest was located in: 12

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.185778 Longitude: -85.824264

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 8/21/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Windward Condo at Edgewater

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|--|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input checked="" type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): While much improvement has been made on exterior lighting many condo units had their interior lights on and curtains open.

Local authority provided a copy of this report: City County FWC Other: _____

[Signature]
 Signature of Observer

8-19-14
 Date

KPW 14 08 18 02 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 2-18-14

Observer's Name: Marilyn Agee

Telephone (include area code): (917) 574-3016 E-mail address: marilynagee@aol.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): 23011 Front Beach

City: Panama City County: Bay

Local nest ID#: 2 Zone nest was located in: 33

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
Latitude: 30.259959 Longitude: -85.973695

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 8/21/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Urban glow to the east

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input checked="" type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary):

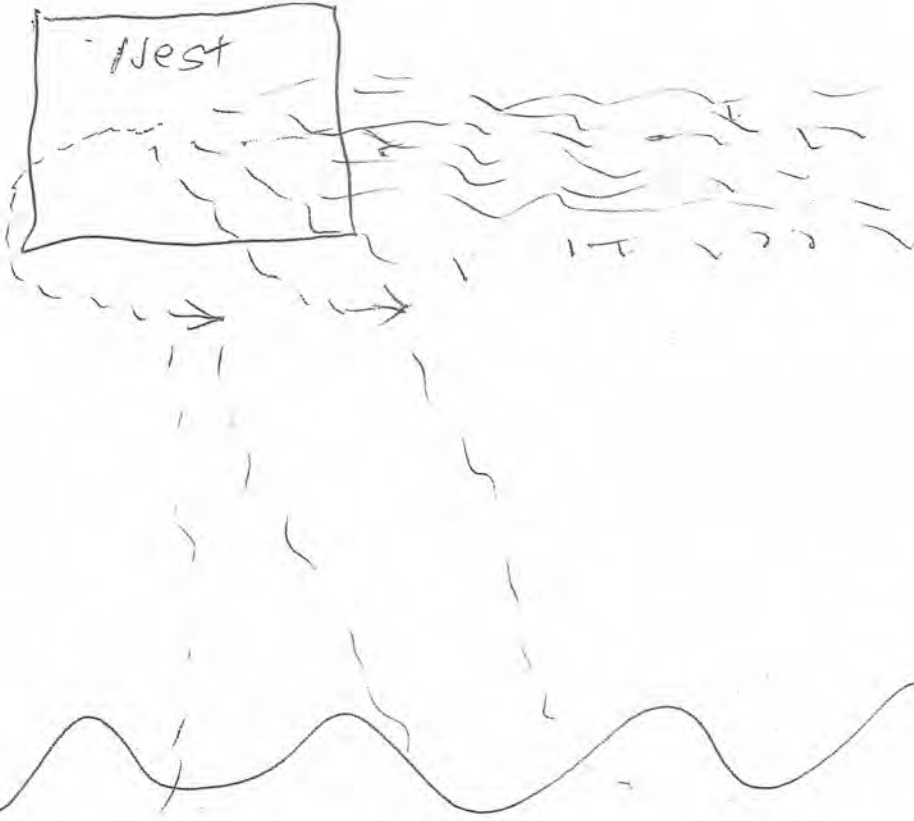
Local authority provided a copy of this report: City County FWC Other: _____

Marilyn S. Agee
Signature of Observer

8-18-14
Date

Ramsgate Condals

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FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

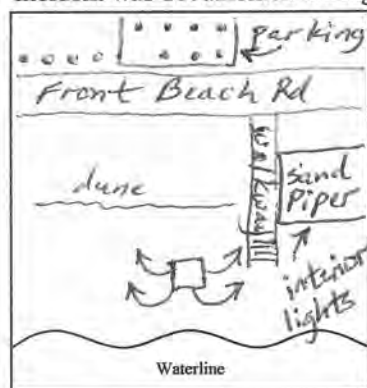
Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 14-038 Date of Incident: 25 Aug 2014
 Observer's Name: Kennard Watson
 Telephone (include area code): (850) 238-9895 E-mail address: pcbturtle@yahoo.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): Sandpiper
Beacon Resort, 17403 Front Beach Rd, 32413
 City: Panama City Beach County: Bay
 Local nest ID#: 4 Zone nest was located in: 23
 Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
 Latitude: 30.22742 Longitude: -85.90170

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 8/29/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: 7 parking lot pole lights and several street lights on north side of Front Beach Rd next to Sandpiper Beacon Motel

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input checked="" type="checkbox"/> other: <u>motel interior lights</u> |

Additional comments (use back if necessary): Hatchlings were drawn to parking lot and street lights which were brightest lights in vicinity of nest. Numerous interior lights from motel were visible, but exterior lights were shielded. All disoriented hatchlings collected ~9:20pm

Local authority provided a copy of this report: City County FWC Other: _____

Kennard Watson
 Signature of Observer

8/30/14
 Date

KPW-14-08-23-01-BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 14-038 Date of Incident: 8-23-14

Observer's Name: Patricia Kelly & Lydia Ambrose

Telephone (include area code): (850) 769-0552 E-mail address: patricia-kelly@fwc.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

5920 Gulf Dr. (townhouse)

City: Panama City Beach County: Bay

Local nest ID#: 6 Zone nest was located in: 3

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.14714 Longitude: -85.76334

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

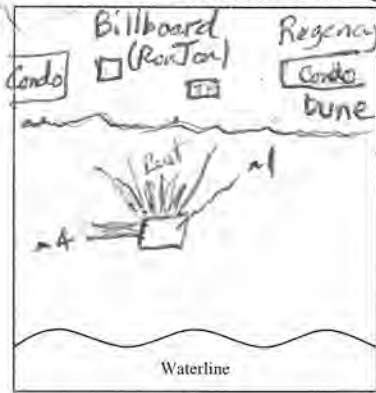
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 8/26/14



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Street lights and lighted sign in vicinity of townhouse at 5920 Gulf Dr

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input checked="" type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input checked="" type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): We were at nest when nest emerged so we able to collect the disoriented turtles. The direction the hatchlings went did not have any blaring, obvious lights. They went North + Northwest of nest.

Local authority provided a copy of this report: City County FWC Other: _____

Lydia A. Ambrose
Signature of Observer

8-23-14
Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 38 Date of Incident: 8-29-14

Observer's Name: Nancy Evou

Telephone (include area code): 850-624-4239 E-mail address: Nancy.evou@noaa.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): 14204 Front Beach Rd.

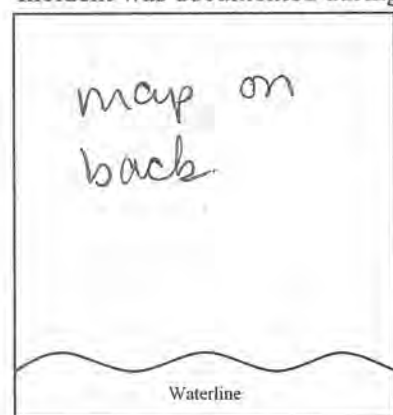
Bid-A-Wee Beach
City: Panama City Beach County: Bay

Local nest ID#: 7 Zone nest was located in: 16

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
Latitude: 30.20157 Longitude: -85.85255

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 9/1/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: 2

Addresses/landmarks turtle(s) disoriented towards: street lights on Front Beach Rd and interior lights in pool area of Fontainebleau Condo, 14401 Front Beach Rd

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input checked="" type="checkbox"/> street light	<input checked="" type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

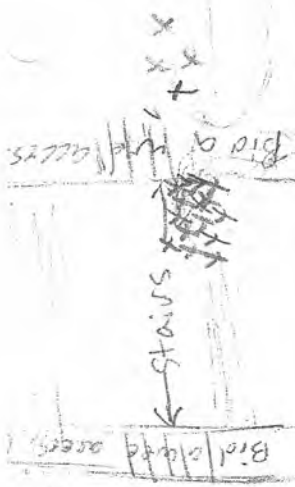
Additional comments (use back if necessary): collected 19 live hatchlings, released in water on site. 2 found dead covered in ants. 1 possibly picked up by sea gull ~ tracks resembled gull tracks visible. 5 tracks, followed to water.

Local authority provided a copy of this report: City County FWC Other: _____

Nancy Evou
Signature of Observer

8-29-14
Date

DUNE
 Dune valley 2
 DUNE
 Dune Valley 1
 DUNE



Tire cuts
 Tire cuts
 Tire cuts



Came out in morning
 while tracking
 other tracks

(1) X = live hatch
 (2) V = dead hatch

water

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MvFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: MTP-14-038 Date of Incident: 22 Aug 2014
 Observer's Name: Kennard Watson
 Telephone (include area code): (850) 238-9895 E-mail address: pcbturtle@yahoo.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): 298 Beachside Dr, house 32413
 City: Panama City Beach County: Bay
 Local nest ID#: 8 Zone nest was located in: 34
 Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
 Latitude: 30.264187 Longitude: -85.982974

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 8/25/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: turtles crawled east toward no particular landmark (see below)

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input checked="" type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input checked="" type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): Hatchlings crawled to an area illuminated by 4 walkway lights toward east side of nest which was in shadow of dune. Urban glow of PC Beach also visible to east. Collected 70 disoriented turtles and released at Sunnyside Beach. Walkway lights were unshielded and white

Local authority provided a copy of this report: City County FWC Other: _____

Kennard Watson
 Signature of Observer 8/23/14
Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: MTP-14-038 Date of Incident: 8-31-14

Observer's Name: Marilyn Agee

Telephone (include area code): (917) 574-3076 E-mail address: marilynagee@aol.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

17,939 Front Beach Rd Seascape Inn

City: Panama City Beach County: Bay

Local nest ID#: 9 Zone nest was located in: 18

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.20687 Longitude: -85.86243

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/3/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Origins, Seascape Inn
Street lights, Sunrise Beach Resort

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

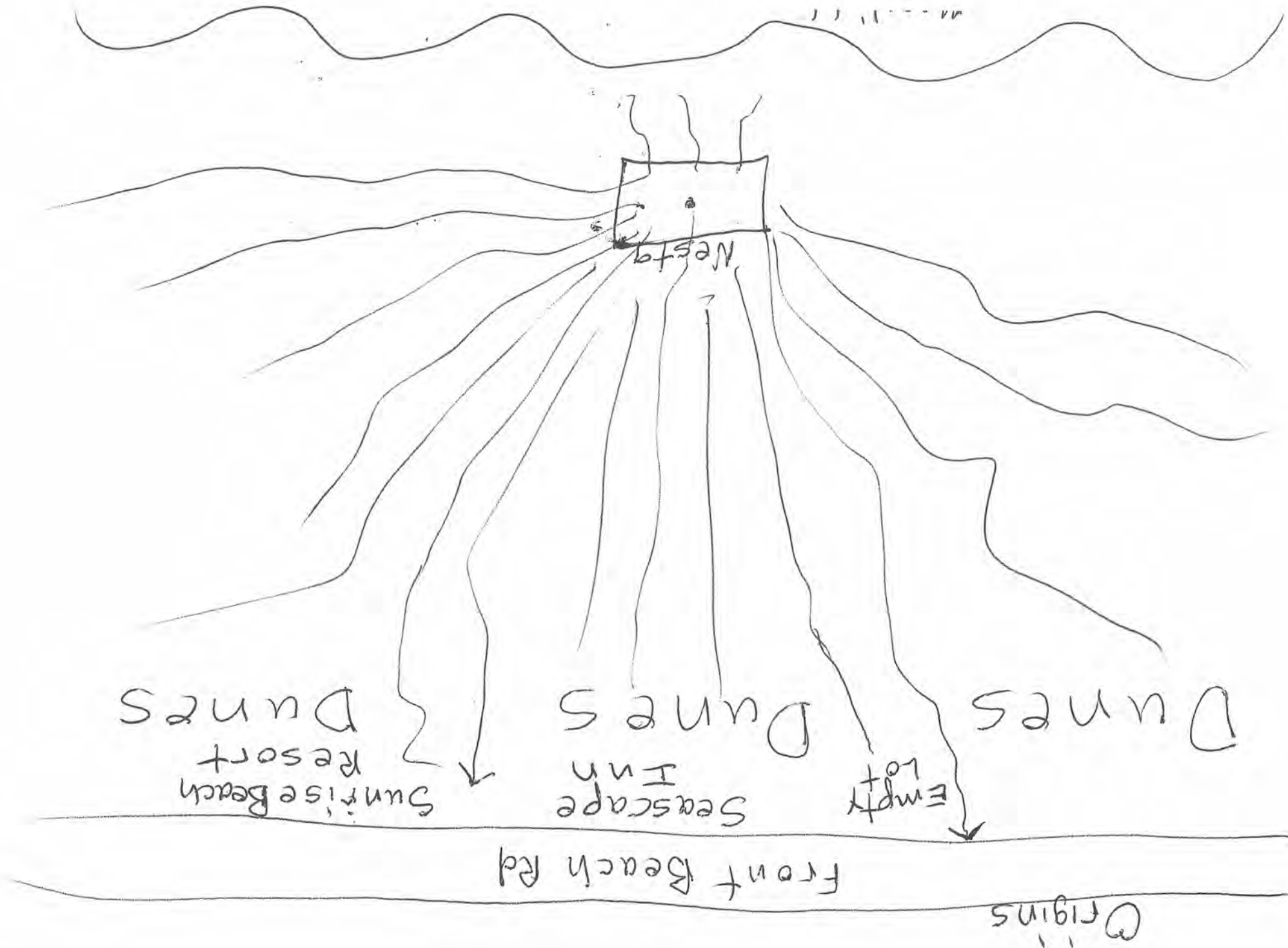
<input type="checkbox"/> parking lot	<input checked="" type="checkbox"/> street light	<input checked="" type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input checked="" type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input checked="" type="checkbox"/> other: <u>motel</u>

Additional comments (use back if necessary): Nest was not being monitored at time of emergence. Knowledgeable bystander attempted to hold gathered hatchlings for us, but a policeman made her put them in the water.

Local authority provided a copy of this report: City County FWC Other: _____

Marilyn Agee
Signature of Observer

8-31-14
Date



KPW-14-08-28-01-BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: MTP-14-038 Date of Incident: 8-28-14

Observer's Name: Marilyn Agee
Telephone (include area code): (919) 574-3078 E-mail address: marilynagee@aol.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): 10, 713 Front Beach Rd. Grandview Condo Pub. Access 35-A

City: Panama City County: Bay

Local nest ID#: 10 Zone nest was located in: 11

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.17390 Longitude: -85.81249

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated <u>None</u>
--	---	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 8/31/14



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50 <u>All</u>	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? If "YES" indicate the number: _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Addresses/landmarks turtle(s) disoriented towards: Holiday Inn - Front Beach Rd. Grandview Condo 10713 Front Beach Ocean Villas

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> parking lot <u>garage</u> | <input checked="" type="checkbox"/> street light | <input checked="" type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input checked="" type="checkbox"/> other: <u>motel exterior lights</u> |

Additional comments (use back if necessary): lights from condos were not very bright, but the Holiday Inn had an entire side of the building reflecting more bright white lights.

Local authority provided a copy of this report: City County FWC Other: _____

Marilyn S. Agee
Signature of Observer

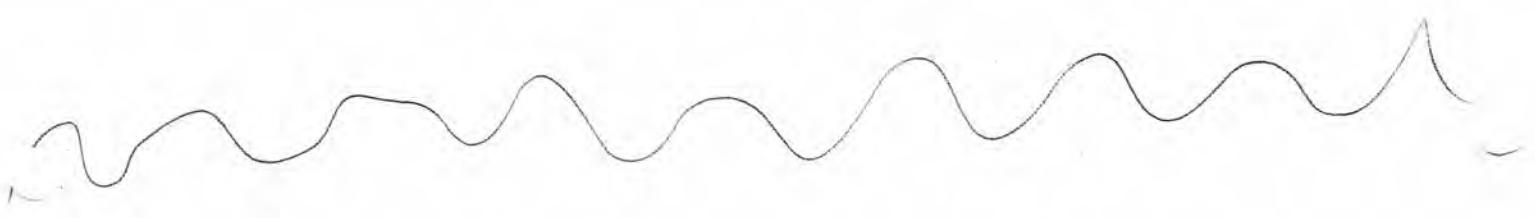
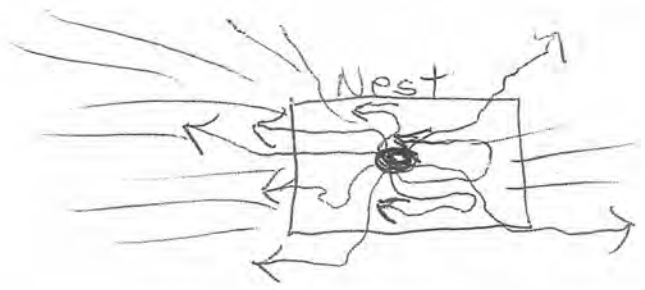
8-28-14
Date

Bright lights
Friday
Even

Some lights
Grandview

[No Lights]

Some lights
Ocean Villas



FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

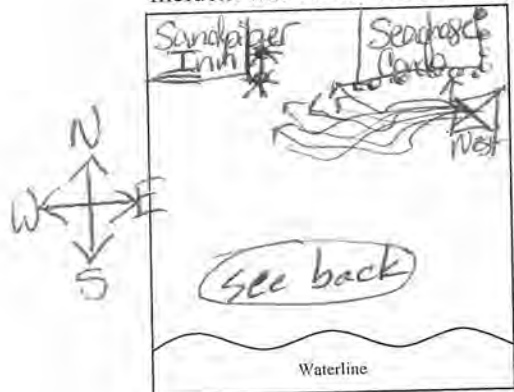
Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: _____ Date of Incident: Sept. 1, 2014
 Observer's Name: Karen Simonsen + John Simonsen
 Telephone (include area code): (850) 233-4454 E-mail address: speetalk36@gmail.com
 Location of Disorientation Event: (address, beach name and/or nearest landmark): 17351 Front Beach Rd., Seachase Condo (East Side)
 City: Panama City Beach County: Bay
 Local nest ID#: 11 Zone nest was located in: 23
 Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
 Latitude: 30.22557 Longitude: -85.89799

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 9/1/14



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? If "YES" indicate the number: _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Addresses/landmarks turtle(s) disoriented towards: Sandpiper Inn + Seachase Condo
17403 Front Beach Rd. + 17351 Front Beach Rd. / PCB, FL.

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

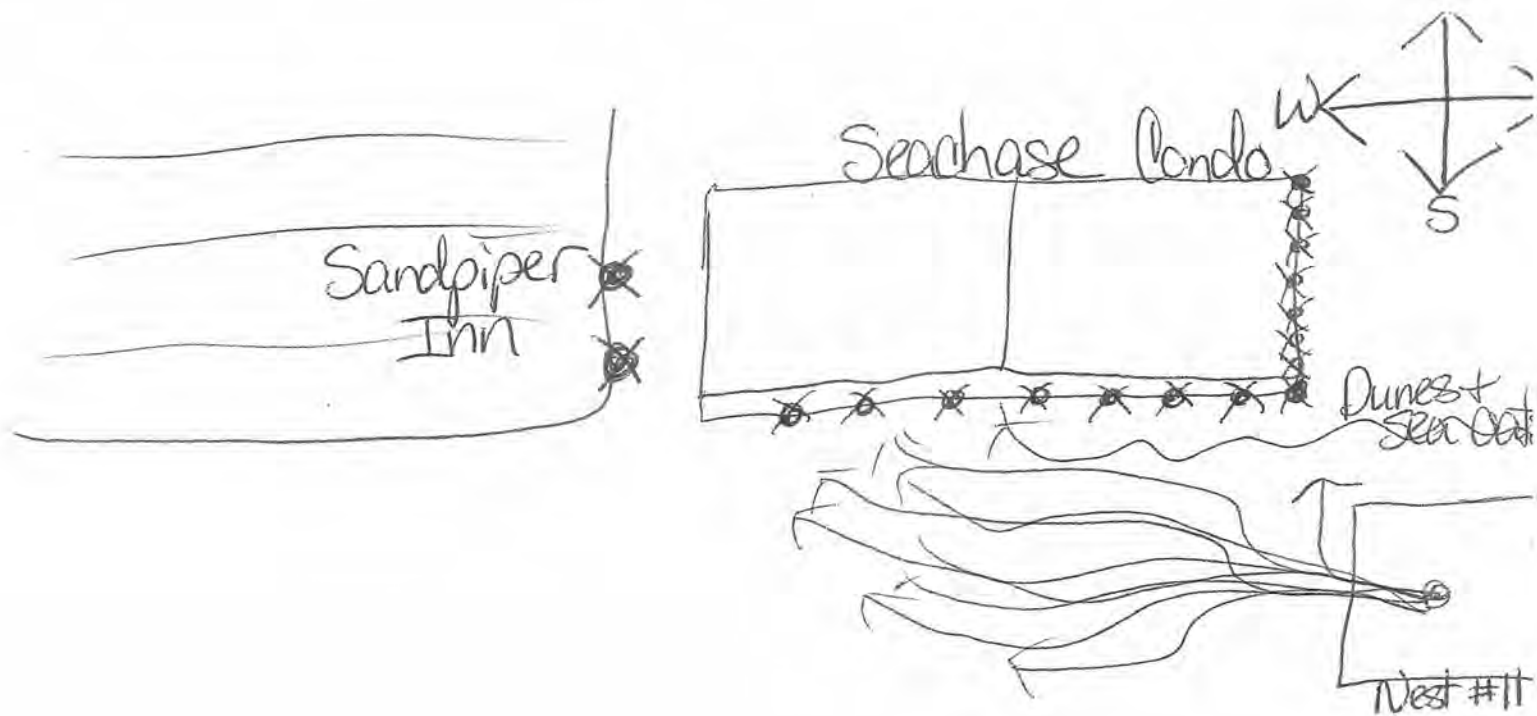
- | | | |
|---|--|--|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input checked="" type="checkbox"/> other: <u>motel</u> |

Additional comments (use back if necessary): Outside lights located in the corners of Sandpiper Inn + Seachase Condo, as well as the 8 lights lined along the bottom floor contributed to their disorientation. All headed West while only one went North.

Local authority provided a copy of this report: City County FWC Other: _____

Karen Simonsen
 Signature of Observer

9/1/14
 Date



All 77 turtles were disoriented by the exterior lights of Sandpiper Inn & the Seachase Condo. One turtle headed North toward the Condo while the rest went West.

Water

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: MTP-19-038 Date of Incident: 8-29-14

Observer's Name: Marilyn Agee

Telephone (include area code): (917) 574-3076 E-mail address: marilyn.agee@aol.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

21,312 Front Beach Rd, Sunnyside Beach

City: Panama City Beach County: Bay

Local nest ID#: 12 Zone nest was located in: 30

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.25062 Longitude: -85.95101

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

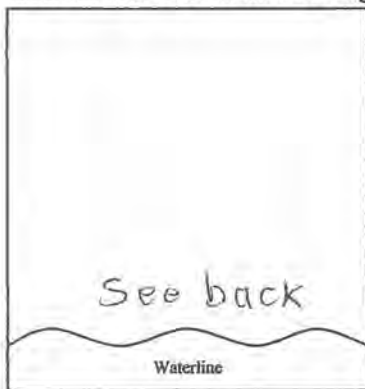
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/1/14



Number of turtles disoriented:
 1
 2-10
 11-50
 >50

Disoriented turtles reaching the water:
 All
 Some
 None
 Not investigated

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: 2 very bright business floodlights directly across Front Beach Rd from Sugar Sands and Public Access

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input checked="" type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Although the beach at Sunnyside has no visible lights behind it, those 2 bright lights a few blocks away shine directly down on the nest (picture available)

Local authority provided a copy of this report: City County FWC Other: _____

Marilyn S. Agee
 Signature of Observer

8-29-14
 Date

House
21, 312

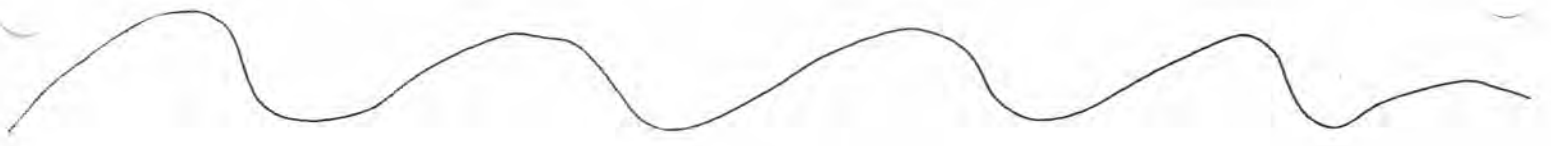
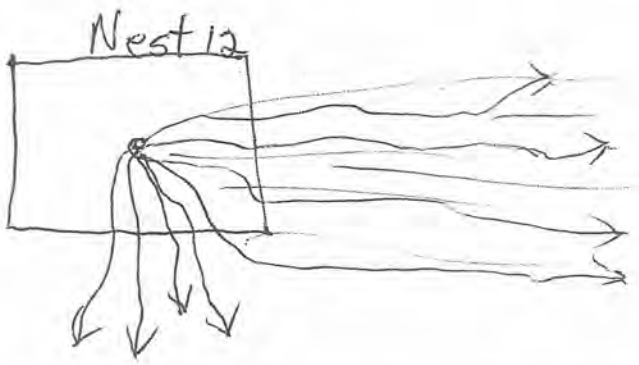
Very bright
yellow lights



Front Beach Rd

(Dark beach)

Sugar Sands Public Access 84 } Sor urb glou



KPW-14-09-04-01-BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 09-04-2014

Observer's Name: Melissa Byars

Telephone (include area code): (950) 276-4280 E-mail address: mrbyars@knology.net

Location of Disorientation Event: (address, beach name and/or nearest landmark): Bid-a-Wee Beach at Fontainebleu Terrace 14401 FRONT Beach Road,

City: Panama City Beach County: BAY

Local nest ID#: 13 Zone nest was located in: 17

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.202628 Longitude: -85.854476

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
--	---	--

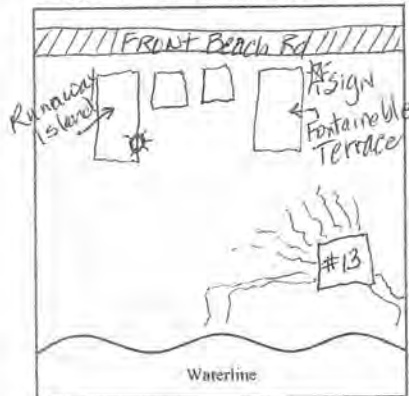
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/7/14



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO
If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: 14401 Front Beach Rd @ Fontainebleu Terrace and some toward Runaway Island @ 14521 Front Beach Rd

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) <u>Fontainebleu Terrace</u> |
| <input checked="" type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input checked="" type="checkbox"/> sign <u>VERY BRIGHT @ Fontainebleu Terrace</u> | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): 102 hatchling emerged 7:56 pm. All were disoriented, 8 went to water (including 1 straggler) and 94 were released at Sunny Side. Most hatchlings went toward lighting at Fontainebleu Terrace. Approx 5 seemed to be attracted to flood light at Runaway Island & traveled parallel to shore before entering water.

Local authority provided a copy of this report: City County FWC Other: _____

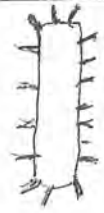
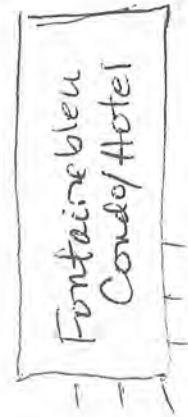
Melissa Byars
Signature of Observer

09-04-2014
Date

← Front Beach Road →



Very Bright
Floodlight
@ Runaway
Island
Restaurant



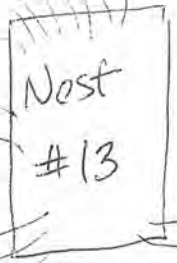
Bright
Fontainebleu
Sign @ Road

Some lighting
From hotel/condo

Bid-a-Wee
access →



Direction
of disoriented
Hatchlings



← waterline →

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: MTP-14-038 Date of Incident: 9-1-14

Observer's Name: Marilyn Agee

Telephone (include area code): (917) 574-3076 E-mail address: marilynagee@aol.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

Schooners 5133 Gulf Dr.

City: Panama City Beach County: Bay

Local nest ID#: 18 Zone nest was located in: 2

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.141140 Longitude: -85.754915

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/4/14



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Condo lights east of Schooners, although yellow, cast a bright glow.

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input checked="" type="checkbox"/> other: <u>fireworks</u> |

Additional comments (use back if necessary): Schooners had obviously dimmed their lights for the impending hatch. Lights near pool of Seychelles Condo were brightest in vicinity of nest

Local authority provided a copy of this report: City County FWC Other: _____

Marilyn S. Agee
Signature of Observer

9-1-14
Date

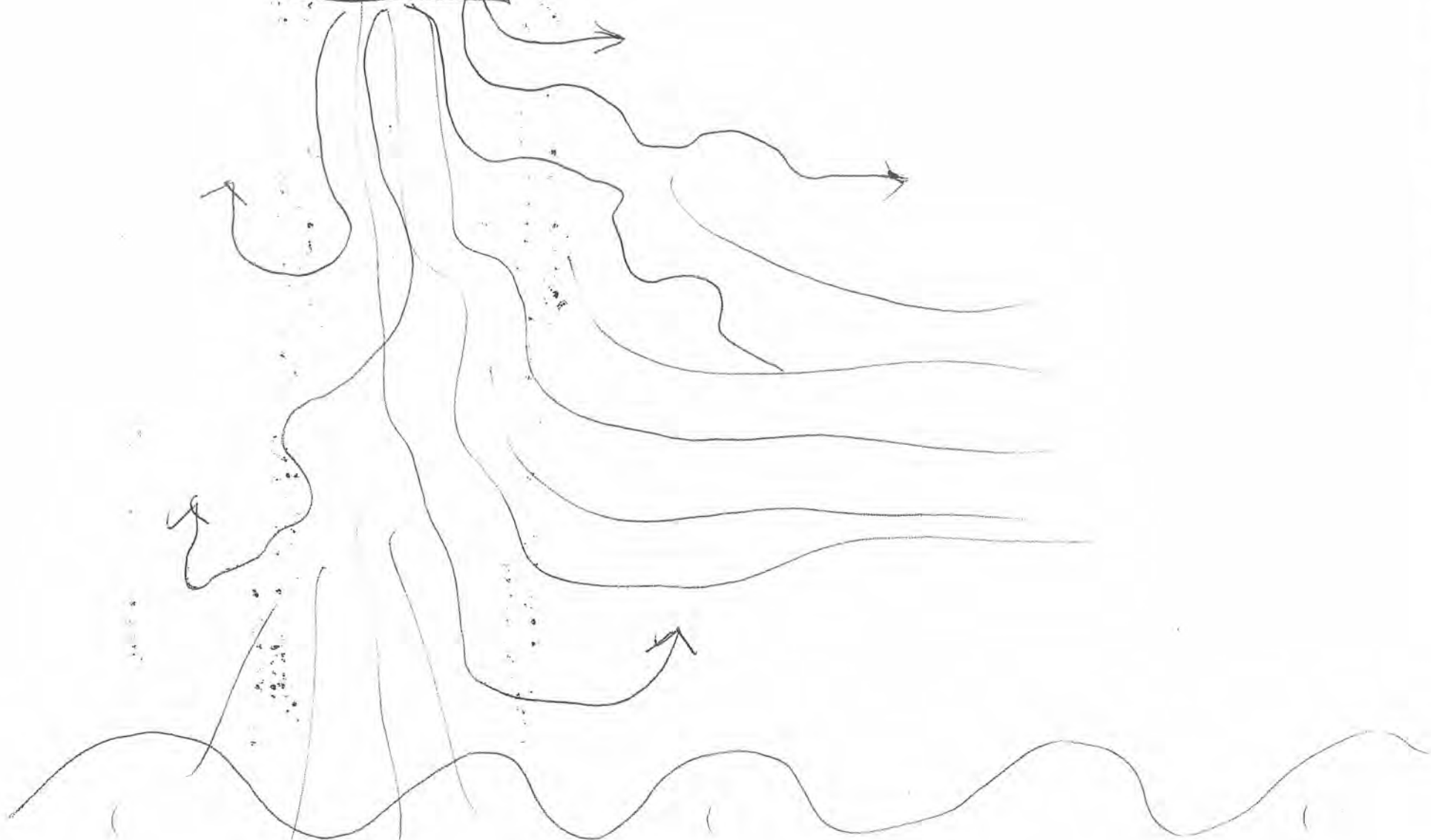
Schooners

Condos

Yellow lights

Dunes

Nest 18



12-60304K1

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 4 Sept 2014

Observer's Name: Betsy & Roger Straley

Telephone (include area code): 850-769-7244 E-mail address: possummama53@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): Pineapple Villas 19979 Front Beach Road, Panama City Beach, FL

City: Panama City Beach County: Bay

Local nest ID#: 19 Zone nest was located in: 27

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.24207 Longitude: -85.93208

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/7/14



see back

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: see below

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input checked="" type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Sign = Panama Pineapple Villas Sign

parking lot = Carousal and Thomas Donuts

* numerous hatchlings had to be picked up to keep them from going into the retention pond

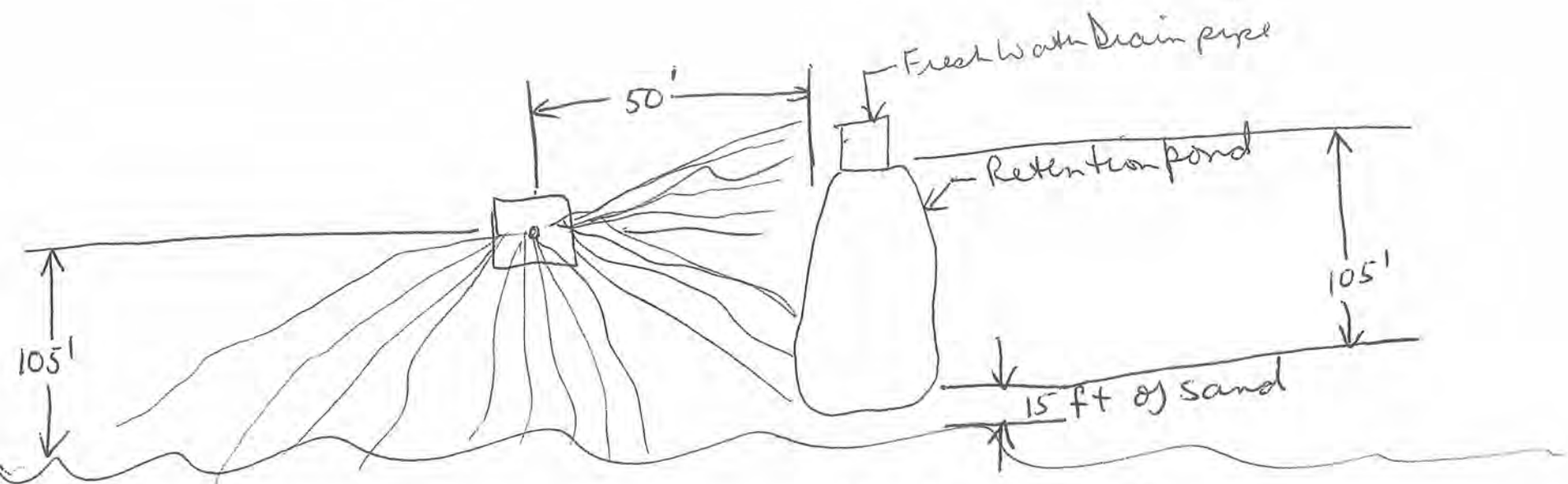
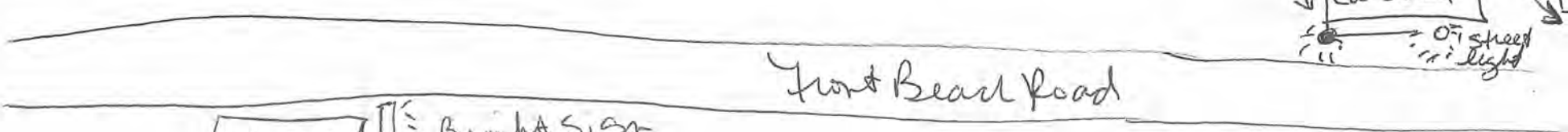
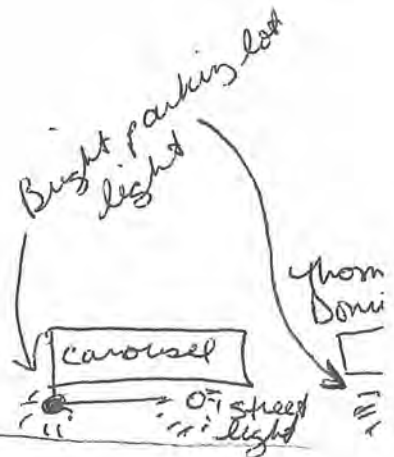
Local authority provided a copy of this report: City County FWC Other: _____

Gail Straley
Signature of Observer

4 Sept 2014
Date

Not to scale

* it is about .5 miles from the nest site to the Carousel Store



Gulf of Mexico

KPW 14 09 19 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 14-038 Date of Incident: 9/19/14

Observer's Name: Karen Simpson

Telephone (include area code): (850) 233-4454 E-mail address: spetalk3@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): 387 Beachside Dr / PCB, FL / west end of beach / Carillon Beach / walkover #7

City: Panama City Beach County: Bay

Local nest ID#: 2310 Zone nest was located in: 34

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.26147 Longitude: -85.97734

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/22/14



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Carillon Beach / Walkover #7
387 Beachside Drive / Panama City Beach

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input checked="" type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

* Additional comments (use back if necessary): It was dark there at the nest
except for the (land/urban glow) a few miles east of the
nest. There was no moon out again so it remained dark
over the water. The sand was polished + began to show signs of movement

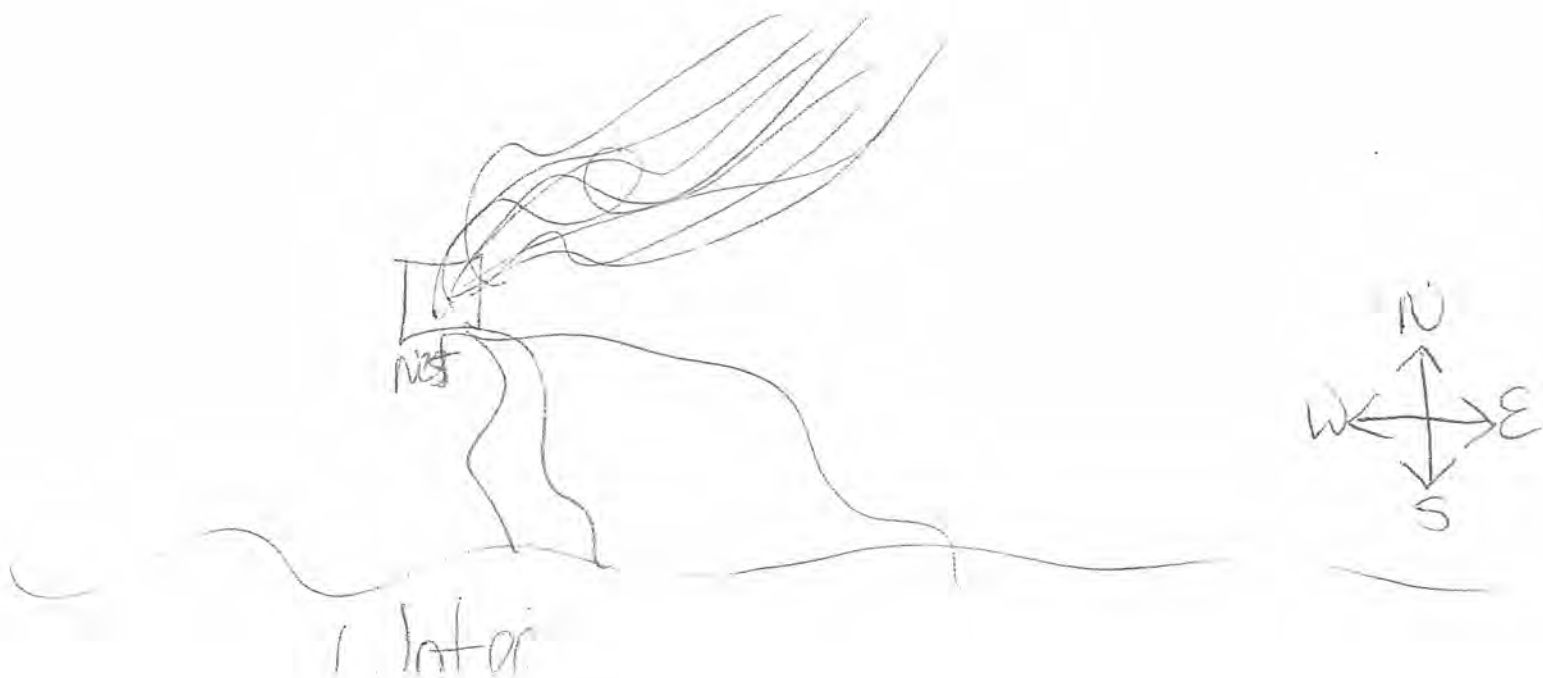
Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer: Karen Simpson Date: 9/19/14

* Back



* at 7:57 pm. By 8:19 pm the first few turtles began to emerge. They were slightly lethargic at first (72°) + began to head East where the only light was down the beach caused by the Urban / Condo Glow. Only 3 made it to the water while the rest headed East. There were a few holes + footprints that caused many of them to slow down. We relocated 43 disoriented turtles at Sunnyside.



KPW 14 09 18 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 14-038 Date of Incident: 9/18/14

Observer's Name: Karen Simonsen

Telephone (include area code): (850) 233-4454 E-mail address: spetalk3@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): Pinnacle Port Condominiums

23223 Front Beach Road / Condo Bldg. C1 / Panama City Beh., FL

City: Panama City Beach County: Bay

Local nest ID#: 24 Zone nest was located in: 35

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.26544 Longitude: -85.98704

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/21/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Pinnacle Port Condos / Bldg. C1

23223 Front Beh. Rd. / Panama City Beh.

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input checked="" type="checkbox"/> other: <u>Pool lights</u>

Additional comments (use back if necessary): Nest 24 was only approx. 30 ft. from the water, however, when they began to emerge at 8:35pm, all turtles headed NE toward the most visible lights which was the pool of Pinnacle Port. We had to pick up + relocate all 40 turtles. There were turtle friendly lights on exterior of building.

* There was no moon.

Local authority provided a copy of this report: City County FWC Other: _____

Karen Simonsen
Signature of Observer

9/18/14
Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 14-038 Date of Incident: 9/28/14

Observer's Name: Tina Buddi and Julie Fountain

Telephone (include area code): (850) 630-6301 E-mail address: tinabuddi@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark):
17885 Front Beach Rd

City: Panama City Beach County: Bay

Local nest ID#: 28 Zone nest was located in: 25

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.23498 Longitude: -85.91711

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO

If "YES" report date of excavation: _____



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: 17885 Front Beach Road parking lot lights and 19440 Front Beach Rd (Carousel) outdoor light

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): The main light issue was from the condos directly behind the nest had a parking lot lined with big round lights that could be seen between each building from the beach.

Local authority provided a copy of this report: City County FWC Other: _____

BUDDI.TINA.M.1178654
876

Digitally signed by BUDDI.TINA.M.1178654876
DN: cn=U.S. Government, ou=DoD, ou=FWC,
ou=CONTRACTOR, cn=BUDDI.TINA.M.1178654876
Date: 2014.09.29 10:38:42 -0500

9/29/14

Signature of Observer

Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 38 Date of Incident: 10-6-14

Observer's Name: Nancy Evox

Telephone (include area code): 850-624-4239 E-mail address: nancy.evox@noaa.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): 17485 Front Beach Road, house access 68

City: Panama City County: Bay

Local nest ID#: 29 Zone nest was located in: 23

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.22779 Longitude: -85.90244

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
		Incident was documented during: (check one) <input checked="" type="checkbox"/> Morning Survey <input type="checkbox"/> Night Survey <input type="checkbox"/> Daytime Was the incident photographed? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Was the source nest found? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Was the nest excavated? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If "YES" report date of excavation: <u>10/9/14</u>



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "YES" indicate the number: _____	

Addresses/landmarks turtle(s) disoriented towards: street lights and vending machine near landmark Condo, 17501 Front Beach Rd

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input checked="" type="checkbox"/> street light <u>South side of road</u>	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input checked="" type="checkbox"/> other: <u>coke machine</u>

Additional comments (use back if necessary): Spectators state they started seeing hatchlings going into water at 6am. Some hatchlings went back behind nest and to west. They were picked up and put in cooler. 2 hatchlings taken by sea gulls.

Local authority provided a copy of this report: City County FWC Other: _____

Nancy Evox
Signature of Observer

10-6-14
Date

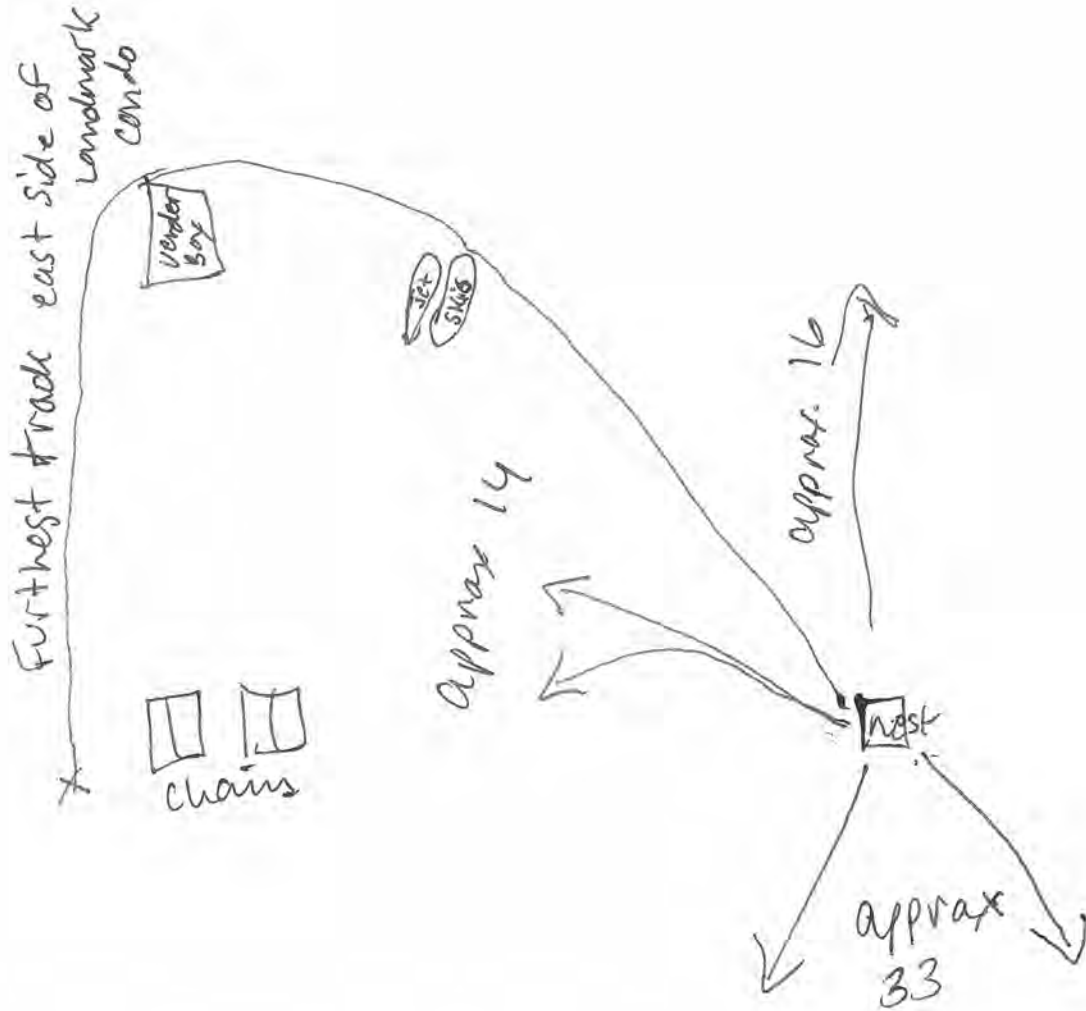
Landmark Condo

street light
lighted coke machine
drive access

vacant lot

10/15/00

Sand Piper Corridor



of 14, 11 to H2O
 of 14, 1 picked up by person
 of 14, 2 picked up by sea gulls
 27 of 33 to H2O

these are estimated #s based on Spectators.
 Remaining 22 taken to Sunnyside Bch for release.

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 14-038 Date of Incident: 10/2/14

Observer's Name: Kennard Watson

Telephone (include area code): (850)238-9895 E-mail address: pcbturtle@yahoo.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): house at 5427 Gulf Dr

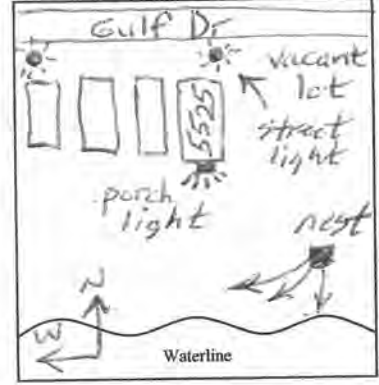
City: Panama City Beach County: Bay

Local nest ID#: 30 Zone nest was located in: 3

Nest GPS Coordinates (use decimal degrees; i.e., Lat 26.845412 Long -80.458796):
 Latitude: 30.14327 Longitude: -85.75819

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated		
			Incident was documented during: (check one)	
			<input type="checkbox"/> Morning Survey <input checked="" type="checkbox"/> Night Survey <input type="checkbox"/> Daytime	
			Was the incident photographed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Was the source nest found? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Was the nest excavated? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If "YES" report date of excavation: <u>10/5/14</u>	
			Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	

Disoriented turtles reaching the water:
 All Some None Not investigated



Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: 2 barn-type street lights on south side of Gulf Dr, bright porch light on house at 5525 Gulf Dr

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input checked="" type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input checked="" type="checkbox"/> single family home (interior)	<input type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input checked="" type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): 62 disoriented turtles crawled west toward no particular landmark. Street lights and house lights were brightest in vicinity. Turtles released at Sunnyside Beach

Local authority provided a copy of this report: City County FWC Other: _____

Kennard Watson
 Signature of Observer

10/3/14
 Date

APW 14 10 02 02 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MvFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: MTP-14-038 Date of Incident: 10/02/2014

Observer's Name: Janis Boatright

Telephone (include area code): 850-866-9998 E-mail address: pcjanis@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): House address 5427

City: Panama City Beach FL County: Bay

Local nest ID#: 31 Zone nest was located in: 3

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.143445 Longitude: -85.758130

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input checked="" type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	---	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 10/5/14



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Crawled westward toward no particular landmark. Street lights & house lights 5325 Gulf Dr brightest in vicinity of nest.

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|---|---|
| <input type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input checked="" type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input checked="" type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): There were lights from a 2 story A-frame type home with floor to ceiling glass with a bright exterior light at the top of the porch. This was the most significant light source during the hatching.

Local authority provided a copy of this report: City County FWC Other: _____

[Signature]
Signature of Observer

10/02/2014
Date

KPW-14-09-26-01-BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 38 Date of Incident: 9-26-14
Observer's Name: Nancy Evou
Telephone (include area code): 850-624-4239 E-mail address: nancy.evou@noaa.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): Mariner West
6213 Thomas Dr

City: Panama City Beach County: Bay

Local nest ID#: 37 Zone nest was located in: 4

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
Latitude: 30.149770 Longitude: -85.76680

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 9/28/14

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If "YES" indicate the number: <u>1</u>	

Addresses/landmarks turtle(s) disoriented towards: unshielded balcony lights and interior lights at Mariner West and bright yellow lights at pool of Princess Condo, 6415 Thomas Dr

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)
 parking lot street light condominium (interior)
 dune crossover single family home (interior) condominium (exterior)
 restaurant/bar single family home (exterior) sky glow/urban glow Princess
 pier sign other: pool lights Condo

Additional comments (use back if necessary): I got a call from Jimmy, beach vendor, stating a few people told him they had found a bunch of hatchlings on beach and put them in the water. Count unknown, when I got there tracks were every where on west end of →

Local authority provided a copy of this report: City County FWC Other: _____

Nancy Evou
Signature of Observer

9-29-14
Date

Noriner West Condo. After more searching found they were
going even further west. Called Lyndal Yates, Iris & Rick
to help track. Furthest track found was 351 paces
west of nest, in front of Summerhouse Condo. While
we were on the beach, beach goers had put 1 hatchling
in the water. We were able to find nest and mark it
off. 1 dead hatchling found in path of Summerwind
Condo, looks like crab damage. Kept, in freezer @ AMFS.
Dive found in crab hole & rebased on site immediately.
no damage to hatchling. Photos taken.

Attachment 4

Obstructed Nesting Attempt reports

4 November 2014

Prepared by:

Kennard Watson
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Prepared for:

Dan Rowe
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32413

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MTP-14-038 Date of Incident: July 21, 2014

Observer's Name: William Barry Bradley

Telephone (include area code): 850-960-9000 E-mail address: bradleybarry15@gmail.com

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): Tidewater Beach Resort
16819 Front Beach Road, Panama City Beach

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.22007 Longitude -85.88696

City: Panama City Beach County: Bay

Local nest ID#: 21 Zone nest/false crawl was located in: 21

Obstruction(s) encountered: (please circle)

- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe): _____

Describe Event: Loggerhead false crawl was found during morning survey on July 21. Tracks indicated that the turtle emerged from the water and was obstructed by wooden beach chairs in front of Tidewater Beach Resort.

William B. Bradley
Signature of Observer

July 22, 2014
Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MT P-14-038 Date of Incident: 8/5/14
Observer's Name: Barry Bradley
Telephone (include area code): 850-960-9000 E-mail address: bradleybarry15@gmail.com
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): Regency towers
5801 Thomas drive, Panama City beach, 32408

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.14624 Longitude -85.76215

City: Panama City beach

County: Bay

Local nest ID#: FC23

Zone nest/false crawl was located in: 1

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe):

Describe Event: False crawl was found during morning survey
on 8/5/14, tracks show that turtle ran into a wooden beach
chair then turned around and went back into the water

Barry Bradley

Signature of Observer

8/6/14

Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
 Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
 Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: 7-15-2014
 Observer's Name: Isis Koenders
 Telephone (include area code): 850-249-2921 E-mail address: ISISK@usa.net
 Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl
 Location of nest or false crawl (address, beach name and/or nearest landmark):
16819 Front Beach Rd - (Behind tide-water condos)
PCB, FL

GPS Coordinates of nest or false crawl location:
 (in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):
 Latitude _____ Longitude _____
 City: Panama City Beach County: Bay
 Local nest ID#: 22 Zone (nest) false crawl was located in: _____
 Obstruction(s) encountered: (please circle)

- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe): _____
 Describe Event: turtle came up & nested between 2 rental beach chairs, but got stuck & could not get out when leaving the nest so 2 observers moved the *
chairs

 Signature of Observer Date 7-15-14

Event photograph attached
 * chairs back so she could crawl back to the water. turtle was on the beach sometime around 3.30 am & back in the water by the time we arrived at 4 am.

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MTP-14-038 Date of Incident: 07/21/2014

Observer's Name: Jessica Graham and Annette DeSercey

Telephone (include area code): 3215368932 E-mail address: graham.jessica.e@gmail.com

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): 17101 Front Beach Rd. Just in front of Beachcomber Inn

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.22135 Longitude -85.88930

City: Panama City Beach County: Bay

Local nest ID#: 26 Zone nest/false crawl was located in: 22

Obstruction(s) encountered: (please circle)

- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe): Beach service beach chairs

Describe Event: The beach chairs that are permitted to be left on the beach overnight obstructed the turtles emergence and return to the water. The chairs were placed approximately 4 ft apart which allowed just enough room for this turtle to squeeze through. It was obvious that the turtle was a bit larger as there was evidence of flipper marks underneath the chairs. The small space did allow the turtle to navigate around them. She had a slightly harder time navigating on her way out as shown by the zigzagging of the track.

Signature of Observer

07/21/2014

Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MvFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MT P-14-038 Date of Incident: 8/5/14
 Observer's Name: Barry Bradley
 Telephone (include area code): 850-960-9988 Email address: bradleybarry15@gmail.com
 Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl
 Location of nest or false crawl (address, beach name and/or nearest landmark): MoonSpinner Condominium 4425 Thomas Drive, Panama City beach 32408

GPS Coordinates of nest or false crawl location:
(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):
 Latitude 30.13397 Longitude -85.74663
 City: Panama City beach County: Bay
 Local nest ID#: 32 Zone nest/false crawl was located in: 1

- Obstruction(s) encountered: (please circle)
- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe):
 Describe Event: Nest was found in between wooden beach chairs. The vendor who rented beach chairs said that he saw a mound of sand between the beach chairs and
Barry Bradley 8/6/14
 Signature of Observer Date

smoothed it out because he didn't know what it was. This happened before I arrived at the nest.

Event photograph attached