

NOTICE and AGENDA
CITY OF TREASURE ISLAND, FLORIDA
BEACH STEWARSHIP COMMITTEE
CITY HALL AUDITORIUM, 120 108th AVENUE, TREASURE ISLAND, FLORIDA 33706
WEDNESDAY, OCTOBER 11 2017 AT 1:30 PM

Welcome to the City of Treasure Island Beach Stewardship Committee Meeting. If you wish to speak on a topic which is on today's agenda, a speaker's form [available in the rear of the room] must be completed and given to the Chairperson. Please do not address the Board from your seat, but rather from the podium where your comments can be heard by all and recorded as required by Florida law. Unscheduled topics may be presented under the Public Comments section of the agenda.

1. Meeting Called to Order
2. Pledge of Allegiance
3. Roll Call

Heidi Horak (Chair)	District 4
Deborah Boyer	District 3
George Greenfield	District 2
Don Nolan	District 1
Greg Taylor (Vice-Chair)	Appointed by Mayor
Vice-Mayor Larry Lunn	Commission Representative

4. Acceptance of the July 12, 2017 Meeting Minutes
5. Changes to the Agenda
6. Beach Renourishment Update
7. Coastal Lighting Discussion
8. Beach Trail Update
9. Sea Oat Planting Summary
10. Discussion of Committee's Purpose and Goals
11. Comments from Committee Members and Staff
12. Public Comments
13. Adjournment and Next Meeting Date is January 10, 2018

For any person desiring to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. The requirements of this section do not apply to the notice provided in s. 200.065(3). (F.S. Chapter 286.0105) NOTE: Any transcript shall be requested and made by the individual requesting same at his or her own expense. Therefore a court reporter may be desired or required accordingly.

Any person with a disability who needs any accommodation in order to participate in this proceeding is entitled to assistance at no cost. Please contact the office of the City Clerk in writing at 120 – 108 Avenue, Treasure Island FL 33706 or by phone at 727 547 4575 at least two working days prior to the meeting to advise what assistance is needed.

POSTED: 10/4/17-10/11/17

MINUTES
CITY OF TREASURE ISLAND, FLORIDA
BEACH STEWARSHIP COMMITTEE
CITY HALL AUDITORIUM, 120 108th AVENUE, TREASURE ISLAND, FLORIDA 33706
WEDNESDAY, JULY 12, 2017 AT 1:30 PM

1. Meeting Called to Order

Meeting was called to order at 1:30 by Chair Heidi Horak.

2. The Pledge of Allegiance

The Pledge of Allegiance was led by Vice-Mayor Larry Lunn.

3. Roll Call

Heidi Horak (Chair)	District 4	Present
Deborah Boyer	District 3	Present
George Greenfield	District 2	Absent
Don Nolan	District 1	Present
Greg Taylor (Vice-Chair)	Appointed by Mayor	Present
Vice-Mayor Larry Lunn	Commission Representative	Present

Deputy City Clerk Pam Middleton said George Greenfield sent an email stating he would not be able to make the meeting.

4. Acceptance of the April 12, 2017 Meeting Minutes

There were some minor changes to the minutes. Mr. Taylor made a motion to accept the amended minutes. It was seconded by Mr. Nolan and the voice vote was unanimous.

5. Changes to the Agenda—None

6. Dr. Ping Wang of USF to Discuss Beach Management Plan

Dr. Wang did a presentation on the new Beach Management Plan. He discussed the make-up of the beach, beach nourishment and how it pertains to Treasure Island. He studies the beaches during normal conditions and after storms. Dr. Wang discussed the storm surges which can cause dune erosion, as well as tidal influence.

Dr. Wang discussed several different zones of the beach including the landward and seaward zone. He briefly discussed storm berms and sandbars. Beach renourishment is borrowing sand from one area and pumping it onto another section. A dyke is built and sand moving machines are used to flatten it out. When the pipes are moved away the beach looks natural. This has been the primary method used in Treasure Island, instead of building structures. He believes beach renourishment is the best way to combat beach erosion. When the sand is put

in place, they study how the sand moves across the beach. They construct according to detailed specifications and let nature take its course. He discussed longshore spreading.

John's Pass is to the north of Treasure Island and Blind Pass is to the south. To understand how Treasure Island works, one must understand the John's Pass/Treasure Island/Blind Pass system. Dr. Wang just finished an inlet management study of both John's Pass and Blind Pass for the FDEP. The John's Pass ebb shoal sticks out about a mile. It is shallow water. There are also areas of Treasure Island that are considered erosional hot spots which are near the inlet. Dr. Wang said an erosional hot spot develops when more sand is leaving than coming in, which creates a sand transport gradient. A transport gradient can be caused by longshore sand transport and cross-shore sand transport.

Dr. Wang discussed some statistical wave analysis data. The waves that come from southwest tend to move the sand up along the coast. Waves that come from northwest move sand from north to south. There is more sand moving from north to south than south to north. The northerly waves that come with winter cold fronts tend to be a little bigger and moves more sand.

Dr. Wang showed a computer wave model that is used by the Army Corp of Engineers. The model is used specifically for inlets and barrier island types of beaches. The wave is very sensitive to the depth. He discussed wave height. He said the beach doesn't really erode because the sand is moving. Erosion takes place when there is an imbalance, in which case more sand is leaving than coming in. Sunshine Beach has a focus wave that makes it erode. He said Sunset Beach is right out of the shadow zone and has bigger waves. An old dredge pit along the shoreline focuses the waves and makes them larger. The higher wave adds to the erosion.

Dr. Wang said they would like to see if the flow in and out of an inlet has anything to do with erosion. Sunshine Beach has a flooding tide. The waves break and stir up the sediment and the tidal current will bring it into the inlet. When the jetty was built in 2000, the sand accumulated quickly. The Blind Pass inlet is smaller. Sunset Beach erosion is not has heavily influenced by tides. The shadow zone of the waves is enough to cause Sunset Beach's erosion.

Nourishing the beach doesn't eliminate the cause. It is difficult to eliminate the problems at all areas by building structures and that is why structures aren't built anymore. Assistant Public Works Director Stacy Boyles wanted to know what effect filling in the dredging pit would have on the erosion. Dr. Wang said a computer generated model was used for the inlet management and it reduced the wave by just a little bit. The shadowing effect contributed more to the waves. Filling in the pit doesn't seem to do too much. In fixing the problem at one place you start a new problem at another place. Mr. Taylor asked for some clarification regarding structures. Dr. Wang discussed groins and jetties. The north jetty of John's Pass in the 1960's actually helped the erosion at Madeira Beach, but by extending the jetty other issues were created.

Dr. Wang said the Treasure Island nourishment has been fairly successful. There have been studies on the 2006, 2010 and 2014 nourishment, how they have behaved and how it helps with the management plan. He discussed the volume loss. Both Sunshine and Sunset Beaches are losing sand at a very uniformed pace. The 2010 nourishment showed that sand loss occurred at a steadier pace. Tropical Storm Debby didn't really change the linear trend. It was a very rough winter in 2014. Sunshine was in good shape and resulted in more sand on Sunset Beach.

Sunshine Beach is eroding at approximate 12,000 cubic yards a year. If the nourishment cycle is every 4 years, then 80,000 cubic yards of sand is needed. Sunset Beach is longer than Sunshine Beach. Sunset Beach is eroding at about 45,000 cubic yards a year. If the renourishment is every 4 years Sunset Beach will need 200,000 cubic yards. If the renourishment cycle is every 5 years then it would need 250,000 cubic yards. The Army Corps has the data. The FDEP emphasized managing the beach through a sediment budget. They have been collecting data across the beach for quite a while. There is sand moving by natural processes and sand is also put on the beach. He incorporated the Sand Key nourishment from 2012, as well as the Treasure Island nourishment from 2010 into the sediment budget. He explained the southerly movement of the sediment and where it ended up. The John's Pass ebb shoal is gaining 70,000 cubic yards a year. When the sand gets into the channel, it has negative influence on the navigation. Most of the sand ended on the outer edge.

Several Sunshine Beach nourishments borrowed sand from John's Pass. They are looking at the recovery of the area where they borrowed the sand. John's Pass should be dredged about every six years or else the sand keeps returning to the channel. There is an emergency management plan in place to share sand and the budget helped to justify that. Dr. Wang discussed the groin at Sunset Beach with the Army Corps of Engineers. Ms. Boyles said the residents from The Mansions asked if the Army Corps or the County would extend the nourishment to the south monument. Ms. Boyles said it has been further recommended by Dr. Wang. Dr. Wang said the data supports that decision. It is a popular area that is eroding badly. The recommendation would be to extend the south boundary by 1,000 feet and it would help the beach.

Dr. Wang discussed how the dune system on Sunset Beach was hit pretty hard during Tropical Storm Debby. The dune moved landward about 18 feet. The winter storm moved it landward as well. He suggested that when they build the beach that a dune is also built back up. It takes decades for dunes to grow. He discussed the emergency sand sharing project. It hasn't been used yet, but it is good to have.

Ms. Boyles asked Dr. Wang if reconstruction of the dune is part of the next nourishment cycle. Dr. Wang said he talked to the County and recommended that. The data supports it, but they are not allowed to pile sand which is required when building a dune. Ms. Horak said the only way the dunes have been increased on Sunset Beach is by sea oat planting and the natural

process. That takes quite a while. Maybe this could be a good reason to implement the sand-sharing within Treasure Island. Ms. Boyles said the sand-sharing permit is older and she doesn't believe it has the stipulations to make dunes. Dr. Wang said he was told to use the sand-sharing during a dramatic event. Ms. Horak asked if the Blind Pass Management Plan was incorporated into his models. Dr. Wang said yes.

Mary Lou Johnson-Evans has been a resident here for many years. She wanted to know if it was true that they couldn't rake up the seaweed with the garbage tangled in it. Ms. Boyles said they are not allowed to remove seaweed from the beach. There is a provision to put it back into the water. Ms. Johnson-Evans said they are just pushing the garbage and seaweed back into the water. Ms. Boyles said there are beneficial organisms in the seaweed. Ms. Horak said it is called "beach wrack". It is vital to the water and used as a food source for beach species. It does collect the human garbage as well. She suggested removing the pieces of garbage out of the seaweed.

7. Sea Oat Planting

Ms. Horak said they need volunteers on July 15, 2017 from 7:00-11:00 a.m. Meet at the beach at 102nd Avenue and Gulf Blvd. Ms. Boyles said the late Dennis Velasco was great about getting volunteers. Ms. Horak asked if they could send the information out on all social media. She said the sea oats do create protection for the beach.

8. Beach Renourishment Update

Ms. Boyles said there were last minute changes to whether or not the City was going to get nourishment this year. Several easements were not acquired in Sand Key. They had a huge area that eroded outside of the initial calculations. It turns out they need twice as much sand as initially thought needed. This will affect whether or not Treasure Island gets sand. The bid is going out and the City should have an answer by September. However, the bid priorities listed as Sand Key first, then Sunshine Beach and then Sunset Beach. Sunshine Beach needs less sand, which means they may get it before Sunset Beach. It is a matter of money.

9. Beach Trail Update

Ms. Boyles said the city just received the 90% construction plans. They are commenting on them and hope to have them go out to bid tentatively by August with construction starting at the end of the year.

10. Comments from Committee Members and Staff

Ms. Boyer said she walked and worked the beach over the holiday weekend in support of the "Leave No Trace" ordinance. She said she met several people who were very grateful that the volunteers were informing the public, and she met others that were not. She was curious about the additional trash cans especially at Sunset Beach. She suggested the cigarette butt dispenser. Ms. Boyles said the conditions of the beach change with every storm. It becomes

so narrow that they cannot safely get anything there. The City did just receive its new beach vehicle. They've ordered the trash cans. It is challenging on a holiday weekend. They did two "Leave No Trace" pick-ups a day, assisting the turtle surveyors in the mornings. She asked Ms. Boyer to call if there is an area she feels needs a trash can. Ms. Boyer asked if trash cans could be mounted on the dune walkovers.

Ms. Boyles said since the "Leave No Trace" campaign was launched, she has had a lot of people from Sunset Beach offer to volunteer. Standard procedures would have to be put into place. She suggested the Beach Stewardship Committee take ownership. Ms. Horak suggested contacting the civic associations. Ms. Boyles said they are bringing amendments to the "Leave No Trace" ordinance to the Commission. The beach access sign art contest is completed and they will be built soon.

11. Public Comments

Mary Lou Johnson-Evans asked if cigarette containers would be added to the future beach trail design. Ms. Boyles said they are ordering them for the beach trail. Ms. Johnson-Evans suggested the City give portable cigarette butt depositories out to the public. She said she picked up sparklers and fireworks after the holiday weekend. She suggested the City issue tickets for littering. She appreciates the public works crew. There are times that stuff blows out of the truck. She gave her contact information.

Ms. Horak said she went to the Department of Environmental Protection website to read up on the sea grape trimming. She suggested that a link be put on the Treasure Island website.

12. Adjournment and Next Meeting Date is October 11, 2017

The meeting was adjourned at 2:49 p.m.