

**PELICAN BAY SERVICES DIVISION  
CLAM BAY COMMITTEE MEETING  
OCTOBER 3, 2017**

The Clam Bay Committee of the Pelican Bay Services Division met on Tuesday, October 3 at 10:00 a.m. at the SunTrust Bank Building, 801 Laurel Oak Drive, Suite 302, Naples, Florida 34108. In attendance were:

**Clam Bay Committee**  
Susan O'Brien, Chairman

Bohdan Hirniak (*absent*)  
Gary Ventress

**Pelican Bay Services Division Staff**  
Neil Dorrill, Administrator  
Marion Bolick, Operations Manager (*absent*)

Mary McCaughtry, Operations Analyst  
Lisa Jacob, Associate Project Manager  
Barbara Shea, Recording Secretary

**Also Present**

Jennifer Bobka, Earth Tech  
Mohamed Dabees, Humiston & Moore  
Tim Hall, Turrell, Hall & Associates

Mike Shepherd, PBSB Board  
Jeremy Sterk, Earth Tech  
Dave Trecker, PBSB Board

**APPROVED AGENDA (AS AMENDED)**

1. Roll call
2. Agenda approval
3. Approval of 06/08/17 meeting minutes
4. Audience comments
5. Clam Bay
  - a. Condition of mangroves
  - b. Water level logger data
  - c. Hand-dug channel maintenance
  - d. Other updates
6. Clam Pass
  - a. Update on current conditions
  - b. September tidal ratio report
  - c. Bathymetric surveys and findings
  - d. Dredging Clam Pass
7. Water Quality
  - a. Sediment report
  - b. Copper results
  - c. 2<sup>nd</sup> quarter report on TP and TN
  - d. Adding water clarity to WQ parameters
  - e. WIN data entry
  - f. Water quality sampling August & September (*add-on*)
8. Annual reports – due December 15, 2017
  - a. Clam Bay monitoring

**Pelican Bay Services Division Clam Bay Committee Meeting  
October 3, 2017**

---

- b. Water Quality – due 30 days after October WQ results reported
  - c. Bathymetric and tidal monitoring
- 8A. Clam Pass Park update (*add-on*)
- 9. Next meeting: January 4
  - 10. Adjournment

**ROLL CALL**

Mr. Hirniak was absent and a quorum was established

**AGENDA APPROVAL**

**Mr. Ventress motioned, Ms. O'Brien seconded to approve the agenda as amended, with the addition of items #7f and 8A. The motion carried unanimously.**

**APPROVAL OF 06/08/17 MEETING MINUTES**

**Mr. Ventress motioned, Ms. O'Brien seconded to approve the 06/08/17 meeting minutes as amended. The motion carried unanimously.**

**AUDIENCE COMMENTS**

None

**CLAM BAY**

**CONDITION OF MANGROVES**

The committee reviewed before (August 22) and after (September 19) photos of the Clam Bay mangroves, provided by Humiston and Moore, to assess the damage from Hurricane Irma. October 2 aerial photos, taken by Earth Tech, were also reviewed. Mr. Hall commented that “replacing mangroves” is FEMA reimbursable.

**WATER LEVEL LOGGER DATA**

Mr. Sterk provided water level logger data through the prior week, and commented that the Clam Bay system has easily handled various summer rain events, and drainage has improved in comparison to last summer. He reported that logger #3 is “down” as a result of the hurricane and will be reinstalled. Ms. Jacob reported that canoe marker #12 has been uprooted and needs to be reinstalled.

**HAND-DUG CHANNEL MAINTENANCE**

Mr. Sterk commented on comparison photos (March & June) of Clam Bay hand-dug channels; the next inspection will be in early November. He commented that additional funds may be necessary for additional channel clean-up resulting from Hurricane Irma. Near-term attention is needed to clean out debris and fallen trees from these channels. Mr. Hall commented that only mangrove debris in the channels should be removed. Mr. Dorrill commented that staff will follow up on the suggested near-term clean-up work. Ms. Bobka commented that although the mangroves show leaf loss and stress, she has observed minimal mangrove mortality.

After committee discussion of the lack of “plots” in the Irma-impacted area, Mr. Sterk agreed to come back to the committee with new proposed plots for monitoring the Irma-impacted areas.

**OTHER UPDATES**

Mr. Sterk reported on his pre-hurricane observations of considerably reduced acreage of seagrass in the southern end of Clam Bay, most likely a result of poor pre-dredge conditions.

**CLAM PASS**

Dr. Dabees provided a post-hurricane update on the conditions in Clam Pass. He noted increased sand deposits in Sections B & C resulting from the storm surge. He suggested a survey of Sections B & C to document the storm's impact. He reported that 9000 yards of sand was removed from the inlet during the summer dredging project; 2944 yards of sand was deposited on the Pelican Bay beach.

Ms. O'Brien commented that we are due to obtain a bathymetric survey to fulfill the Clam Bay Management Plan's requirement of an annual survey. Mr. Dorrill commented that the cost of the survey, including analysis, is approximately \$6,500.

Ms. Jacob suggested that the PBSB Board considers including the cost of annual maintenance dredging in future PBSB budgets. Dr. Dabees suggested that the PBSB budget include "dredging reserve funds" to address any future dredging emergencies. Dr. Trecker commented that per the Clam Bay Management Plan, certain conditions must exist in order to start the planning process of a Clam Pass dredging event. He suggested that the PBSB Board consider internal funding for "maintenance dredging."

**WATER QUALITY**

**SEDIMENT REPORT**

Mr. Hall commented on his April 2017 Clam Bay Sediment & Surface Water Copper Analysis Report included in the agenda packet, highlighting high copper levels in the sediment in the north end of Clam Bay. Dr. Trecker provided a document (which was added to the record) entitled, "Sediment measurements in Clam Bay" which provided his conclusions on the THA report including (1) there is an enormous amount of copper in the sediment, (2) the ratios of water/sediment copper are very similar in the three bays, and (3) the copper in both the sediment and water column is highest in Upper Clam Bay and lowest in Outer Clam Bay. He commented that one cannot assume that improved "flushing" in the Clam Bay system would improve Clam Bay copper levels.

Dr. Trecker also provided documents (which were added to the record) on phosphorus data in Clam Bay and Pelican Bay lakes during 2016 & 2017. He suggested that the high levels of phosphorus in the Vizcaya lake and Laurel Oaks lake may be contributing to the high phosphorus levels in Upper Clam Bay.

**COPPER RESULTS**

Ms. O'Brien commented that copper levels in Clam Bay remain "about the same" as reported in the nine site copper table, updated through July.

**SECOND QUARTER REPORT ON TP AND TN**

Mr. Hall reviewed the 2<sup>nd</sup> quarter Tomasko report on TP and TN (included in the agenda packet), highlighting the problematic phosphorus levels in Clam Bay. The 3<sup>rd</sup> quarter report should be available shortly.

**ADDING WATER CLARITY TO WQ PARAMETERS**

**Pelican Bay Services Division Clam Bay Committee Meeting  
October 3, 2017**

---

Mr. Hall recommended adding water clarity to WQ parameters; water clarity data may show that Clam Bay nutrient levels are sourced from the sediment. He suggested using a Secchi disk to obtain water clarity data. Staff will follow up on the status of Secchi disk training by selected PBSB personnel.

**WIN DATA ENTRY**

Mr. Hall reported that the County is in the process of changing their lab management system, and currently is not producing "adapt reports" which are used for input into WIN.

**WATER QUALITY SAMPLING AUGUST & SEPTEMBER (ADD-ON)**

Mr. Hall reported that (1) August samples were not adequately preserved at the County Lab as a result of a reported loss of refrigeration in the lab; Mr. Hall recommended discarding these samples, (2) August copper results will be provided by the County Lab, (3) as a result of Hurricane Irma, no samples were extracted in September. Mr. Dorrill and Mr. Hall agreed that THA would obtain October samples for water quality testing.

**ANNUAL REPORTS**

Committee members, consultants, and staff reviewed due dates of annual reports including, (1) the Clam Bay monitoring report and the bathymetric and tidal monitoring report are due on Dec. 15, and (2) the water quality report is due 30 days after the October WQ results are reported.

**CLAM PASS PARK UPDATE (ADD-ON)**

Ms. Jacob reported that the Clam Pass Park boardwalk was damaged by Hurricane Irma and is closed indefinitely (to trams and pedestrians). The County has hired an engineer to evaluate the boardwalk for safety purposes.

**NEXT MEETING:**

By consensus, the committee agreed that the next meeting of the committee would be held on December 7 at 1:30 p.m.

**ADJOURNMENT**

**The meeting was adjourned at 11:55 a.m.**



Susan O'Brien, Chairman

Minutes approved [] as presented OR [] as amended ON [ 12-7-17 ] date