

**PELICAN BAY SERVICES DIVISION  
CLAM BAY COMMITTEE MEETING  
DECEMBER 7, 2017**

The Clam Bay Committee of the Pelican Bay Services Division met on Thursday, December 7 at 1:30 p.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  
Gary Ventress

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

Mary McCaughtry, Operations Analyst  
Lisa Jacob, Associate Project Manager (*absent*)  
Barbara Shea, Recording Secretary

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

Mary Johnson, Pelican Bay Foundation  
Andrew McAuley, Earth Tech  
Jeremy Sterk, Earth Tech  
Dave Trecker, PBSB Board

**APPROVED AGENDA (AS PRESENTED)**

1. Roll call
2. Agenda approval
3. Approval of 10/03/17 meeting minutes
4. Audience comments
5. Clam Bay
  - a. Monitoring Irma recovery
  - b. Removing debris from hand-dug channels and waterways
  - c. Other debris removal
  - d. Die-off area assessment
  - e. Other
6. Clam Pass
  - a. Update on current conditions
  - b. November tidal ratio report
7. Water Quality
  - a. Copper results
  - b. Third quarter report on TP and TN
  - c. WIN data entry
  - d. Water sample collection
  - e. Discharge from Mystique construction project
8. Annual reports – due December 15, 2017
  - a. Clam Bay monitoring
  - b. Water Quality – due 30 days after October WQ results reported
  - c. Bathymetric and tidal monitoring

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- 9. Next meeting: January 4
- 10. Adjournment

**ROLL CALL**

All members were present and a quorum was established

**AGENDA APPROVAL**

**Mr. Hirniak motioned, Mr. Ventress seconded to approve the agenda as presented. The motion carried unanimously.**

**APPROVAL OF 10/03/17 MEETING MINUTES**

**Mr. Ventress motioned, Mr. Hirniak seconded to approve the 10/03/17 meeting minutes as presented. The motion carried unanimously.**

**AUDIENCE COMMENTS**

None

**CLAM BAY**

**MONITORING IRMA RECOVERY**

The committee reviewed the new infrared Clam Bay photo taken post-Irma (November 2017). Mr. Tim Hall, consultant with Turrell, Hall & Associates, reported observing post-Irma “budding out” on hurricane-damaged trees. The committee reviewed photos of Irma-damaged areas in Clam Bay, provided by Mr. Jeremy Sterk, consultant with Earth Tech, which were taken soon after the storm occurred. Mr. Sterk suggested and the committee agreed that similar photos of these areas would be taken in six months for comparison.

Mr. Sterk commented that PB sub-associations cannot, in general, remove debris from mangrove and upland conservation areas (for cosmetic reasons) without a permit. The SWFWMD would allow limited removal of “dead broken pieces” for safety reasons.

The committee agreed by consensus to add four mangrove plots in the Irma-impacted area, which would be monitored in March & September with a limited scope.

**REMOVING DEBRIS FROM HAND-DUG CHANNELS AND WATERWAYS**

Mr. Sterk recommended removing the Irma-related debris from the hand-dug channels and waterways as soon as possible, and estimated that approximately \$100,000 may be required to complete this work. Mr. Hall recommended cleaning out the main channels first. Mr. Bolick commented that his staff has completed some debris removal from the waterways.

**OTHER DEBRIS REMOVAL**

Mr. Dorrill reported that staff is in the process of pricing out debris removal in the waterways on the east and west sides of the berm.

**DIE-OFF AREA ASSESSMENT**

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Mr. Hall reported that he has observed signs of recovery in the mangrove die-off area. Mr. Sterk commented on his “health assessments” of trees in the “plot” areas, which are also showing improvement.

**CLAM PASS**

**UPDATE ON CURRENT CONDITIONS**

Dr. Dabees, consultant with Humiston & Moore, reported that the bathymetric survey was completed at the end of November, and he is currently working on the annual report. He commented on the recent super moon which caused the “spit” in Clam Pass to curve southward.

**NOVEMBER TIDAL RATIO REPORT**

Dr. Dabees commented that tidal ratios look decent and show positive trends.

**ESCARPMENT**

Ms. Mary Johnson questioned the cause of the current escarpment on the north side of Clam Pass, and whether it could be a result of the sand placed on the beach from the last beach renourishment project. Dr. Dabees commented that the escarpment is “part of nature” and not a result of sand placement. He suggested no action be taken. He would not be opposed to a call to the DEP to ask what they would suggest to correct the escarpment.

**WATER QUALITY**

**COPPER RESULTS**

Ms. O’Brien commented that copper levels in Clam Bay, as reported in the nine site copper table updated through August, are “borderline” at 16%.

**THIRD QUARTER REPORT ON TP AND TN**

Dr. Trecker provided a document entitled, “Observations and Recommendations” regarding the water quality trends within the six PB stormwater lakes, which was added to the record. He highlighted, (1) copper levels in upland lakes are at an all time low, (2) there appears to be movement of copper out of upland lakes into Clam Bay, (3) phosphorus and nitrogen levels have been steady in the lakes over a five year period, (4) the Vizcaya lake consistently shows the highest levels of phosphorus, (5) over half of the top 7 or 8 exceedances are golf course lakes, and (6) copper and phosphorus appear to be cycling from the sediment.

Ms. O’Brien commented that 2017 data shows more exceedances than in prior years.

Mr. Hall reported that May 2017 shows that 8 out of 9 sites broke exceedance. He noted that May data also shows exceptional winds which may have caused high sediment cycling. Likewise, he reported that January and July 2017 showed no exceedances, and these months were noted as “low wind” months. Mr. Hall will continue to study a possible correlation between monthly exceedances and high winds.

Ms. Mary Johnson commented on the high level of nutrients in the reclaimed water used for irrigation throughout Pelican Bay.

Ms. O’Brien commented that the Tomasko annual report is due in February.

**WIN DATA ENTRY**

Ms. O’Brien reported that the County Lab will be ready in February to input water quality data into the WIN system. However, it would be necessary for County Lab personnel to

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perform the water quality sampling. She suggested that staff obtain pricing for these proposed tasks.

**WATER SAMPLE COLLECTION**

Ms. O'Brien reported that no September samples were collected and that October results should be received soon.

**DISCHARGE FROM MYSTIQUE CONSTRUCTION PROJECT**

Ms. O'Brien commented on the discharge from the Mystique construction project which was discussed at the December PBSB board meeting. She suggested that any possible discharge be monitored, as the PBSB is responsible for water quality in Clam Bay.

**OTHER COMMENTS FROM MR. STERK**

Mr. Sterk provided photos comparing 2016 and 2017 seagrass in the southern end of Clam Bay. He has observed an overall seagrass reduction of two acres, most likely attributable to poor pre-dredge conditions. He expects the seagrass to rebound.

Mr. Sterk commented on Irma-damaged canoe Marker 12, and will contact the County for repair/replacement as the County is the holder of the permit and the responsible party.

**NEXT MEETING:**

By consensus, the committee agreed that the next meeting of the committee would be held on January 4 at 1:30 p.m.

**ADJOURNMENT**

**The meeting was adjourned at 2:59 p.m.**



Susan O'Brien, Chairman

Minutes approved [  ] as presented OR [  ] as amended ON [ 01-04-17 ] date