

**PELICAN BAY SERVICES DIVISION
CLAM BAY COMMITTEE MEETING
JUNE 30, 2016**

The Clam Bay Committee of the Pelican Bay Services Division met on Thursday, June 30 at 1:00 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
Barbara Shea, Recording Secretary

Also Present

Mohamed Dabees, Humiston & Moore
Tim Durham, County Manager's Office
Arielle Poulos, Turrell, Hall & Associates
Jeff Rogers, 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 04/26/16 meeting minutes
4. Audience comments
5. Mangrove die-off report and photos
 - a. Rainfall data (*add-on*)
6. Tidal gauge data
 - a. June 1-27 tidal gauge data
 - b. Historical tidal gauge data
7. Hand-dug channels in Upper Clam Bay
 - a. Missing channels
 - b. Additional work or channels needed
 - c. Permit that may be needed
8. Shoal and meandering channels impacting tidal flow
 - a. Location
 - b. Previous work and bathymetric surveys done in this area
9. Monitoring and restoration of mangrove die-off
 - a. Post construction monitoring (*add-on*)
10. Extension of FDEP dredging permit
11. Timeline for osprey nesting platform near Marker 36
12. Performance to date of tidal gauges

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13. Copper results
14. Total nitrogen and total phosphorus results
15. Next meeting: August 31, September 1 or 2
16. Other
17. 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 amended with the addition of Items #5a and #9a. The motion carried unanimously.

APPROVAL OF 04/26/16 MEETING MINUTES

Mr. Ventress motioned, Mr. Hirniak seconded to approve the 04/26/16 meeting minutes as presented. The motion carried unanimously.

AUDIENCE COMMENTS

None

MANGROVE DIE-OFF REPORT, PHOTOS, OPINIONS, AND MONITORING

Ms. O'Brien reviewed the highlights of Mr. Tim Hall's 6/24/16 status report on the Upper Clam Bay mangrove die-off. She reported that the mangrove die-off area has doubled in size since January 2016, is estimated at 15 acres, and that Mr. Hall is not convinced that any new digging of hand-dug channels is required at this time.

Mr. Jeff Rogers, Turrell, Hall & Assoc., suggested the possibility of the occurrence of a natural transition in Upper Clam Bay of the white mangroves being replaced by red and black mangroves, which have a much better survival rate in a wetter environment. He has observed new growth of the red and black mangroves, although cannot supply data to quantify it.

Ms. Arielle Poulos, Turrell, Hall & Assoc., suggested the possibility of a lengthy time lag between the dredging of Clam Pass and seeing improvement in the tidal flow to Upper Clam Bay.

Mr. Rogers stated that Turrell, Hall & Assoc. will continue to monitor the die-off area and provide updates in 30 and 60 days and include percentages of white, red, and black mangroves in the die-off areas along with information on any new growth observed.

Dr. Mohamed Dabees, Humiston & Moore, reported on his "spot elevations" taken in Upper Clam Bay which show water levels two feet above normal. He noted that in general, there are no changes in water depths of Clam Bay and its main channels since 2008, and he has observed no restrictions of water flow. Dr. Dabees recommended continued monitoring of water

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levels and the size and composition of the die-off area; he recommended no digging of hand-dug channels at this time.

Ms. Linda Roth commented on (1) the ability of mangroves to survive in fresh water, and (2) the ability of red mangroves to survive in high water levels, followed by black mangroves which have a lesser ability, followed by white mangroves which have the lowest survival rate.

RAINFALL DATA (ADD-ON)

Ms. O'Brien reviewed a document, "Rainfall in inches at Naples Airport" which provided monthly rainfall for the last 30 months; total rainfall in 2015 was 30% less than 2014. The document was added to the record.

TIDAL GAUGE DATA

Ms. O'Brien reviewed the tidal gauge data reports for February through June 27, prepared by Humiston & Moore, which indicate that the current tidal exchange at the northern end of Clam Bay is similar to what it was before the April dredging event. Dr. Dabees recommended continued monitoring.

HAND-DUG CHANNELS IN UPPER CLAM BAY

Ms. O'Brien reviewed Mr. Tim Hall's recent report stating that he is not convinced new hand-dug channels are required at this time.

Mr. Dorrill commented that he will have continued discussions with our Clam Bay consultants to determine whether to begin the process of obtaining permits for new hand-dug channels and report back to the committee.

POST CONSTRUCTION MONITORING (ADD-ON)

Mr. Dorrill reported that Dr. Dabees has provided a post construction (Clam Pass dredging) monitoring proposal. All County Fund 111 and TDC funds budgeted for the Clam Bay dredging project have been depleted. Mr. Dorrill will meet with the Collier County Office of Management & Budget to request additional funds to pay for Humiston & Moore's proposal.

EXTENSION OF FDEP DREDGING PERMIT

Dr. Dabees confirmed that the request for a 5 year extension for our FDEP dredging permit has been approved; the new expiration is 2027 (expiring at about the same time as the USACE dredging permit).

TIMELINE FOR OSPREY NESTING PLATFORM NEAR MARKER 36

Mr. Dorrill reported that the Pelican Bay Foundation has agreed to allow the PBSB to build an osprey nesting platform on their property near Marker 36. Mr. Hoppensteadt, PBF President, has suggested that the PBSB choose an appropriate location. Mr. Jeremy Sterk, Earth Tech, will assist the PBSB with this task. The approximate cost to the PBSB is \$3,500; the PBF will not share in the cost.

PERFORMANCE TO DATE OF TIDAL GAUGES

Mr. Sterk reported no performance issues of the tidal gauges other than a few minor glitches in the modem and suggested that the initial trouble-shooting for the gauges be done by in-house staff.

COPPER RESULTS

Ms. O'Brien reported that Clam Bay copper results for March and April were good; all nine sampling sites met the FDEP's criteria for copper.

TOTAL NITROGEN AND TOTAL PHOSPHORUS RESULTS

Dr. Trecker reported that total nitrogen and total phosphorus for recent months are within FDEP criteria, except for TP at one site in Upper Clam Bay. The high level of phosphorus at this specific site has been an issue in the past and will continue to be monitored. The next quarterly report is expected in August.

NEXT CLAM BAY COMMITTEE MEETING

By consensus, the committee agreed that the next meeting of the committee would be on August 31 at 1:00 p.m.

ADJOURNMENT

The meeting was adjourned at 2:27 p.m.

Susan O'Brien

Susan O'Brien, Chairman

Minutes approved [] as presented OR [] as amended ON [8/31/16] date