

**PELICAN BAY SERVICES DIVISION  
WATER MANAGEMENT COMMITTEE MEETING  
AUGUST 3, 2017**

The Water Management Committee of the Pelican Bay Services Division met on Thursday, August 3 at 1:00 p.m. at the SunTrust Bank Building, 801 Laurel Oak Drive, Suite 302, Naples, Florida 34108. The following members attended.

**Water Management Committee**  
Tom Cravens, Chairman

Mike Shepherd  
Dave Trecker

**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**

Tom Barber, Agnoli, Barber & Brundage

**APPROVED AGENDA (AS PRESENTED)**

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 04/21/17 meeting minutes
5. Audience comments
6. \*Phase 2 lake bank erosion study results – presentation by Tom Barber (ABB)
7. Status of 2017 aerator installation
8. Systematic twice weekly monitoring of solar aerators
9. Evaluation of “Lake Evaluation Form” and potential use
10. Lake water quality
11. Other business
12. Adjournment

*\*indicates possible action items*

**ROLL CALL**

All members were present and a quorum was established

**AGENDA APPROVAL**

**Dr. Trecker motioned, Mr. Shepherd seconded to approve the agenda as presented. The motion carried unanimously.**

**APPROVAL OF 04/21/17 MEETING MINUTES**

**Mr. Shepherd motioned, Dr. Trecker seconded to approve the 04/21/17 meeting minutes as presented. The motion carried unanimously.**

**AUDIENCE COMMENTS**

None

**PHASE 2 LAKE BANK EROSION STUDY RESULTS**

Mr. Tom Barber, our ABB consultant, provided a presentation on his Phase 2 lake bank erosion study results, as provided in the agenda packet. He discussed the criteria examined, which resulted in a final ranking/score of the lake banks of the 45 lakes for which the PBSB has responsibility. Mr. Barber provided cost estimates for the ten worst ranked lakes, using four remediation options including (1) Option A: uses geoweb for the primary repair and turf mat for the secondary repair, (2) Option B: uses turf mat for both the primary and secondary repairs, (3) Option C: uses turf mat for the primary repair and re-grading for the secondary repair, and (4) Option D: provides for re-grading the primary repair and rototilling the secondary repair. He also commented that all of the options include littoral plantings in the cost estimates.

After discussion, the committee agreed by consensus on (1) the principle of a trial lake, (2) the selection of Lake 2-9 (St. Maarten/St. Thomas) as the trial lake, (3) the need to accrue sufficient funds to complete the trial lake project (the FY18 budget includes approximately \$150,000 for lake bank remediation), and (4) the selection of the method of remediation of the trial lake requires more discussion.

Mr. Dorrill commented on a more cost effective method of lake bank remediation whereby the lake bottom is dredged and materials are inserted into tubes which are used to shore up the lake banks. Mr. Barber commented on reasons not to choose this method.

Mr. Henry Bachman commented that as a taxpayer, he is paying taxes to the PBSB to maintain the functioning of the water management system, and lake banks do not affect this system.

**Mr. Shepherd motioned, Dr. Trecker seconded to recommend to the full board that we do the remediation of Lake 2-9 in fiscal year 2019 and begin accruing sufficient amounts to fund that project. The motion carried unanimously.**

**STATUS OF 2017 AERATOR INSTALLATION**

Ms. Jacob reported that she is currently working on the bid packet for the installation of 11 aerators. Her goal is to complete the project before the end of FY17.

**MR. DORRILL DEPARTED THE MEETING AT 2:20 PM**

**SYSTEMATIC TWICE WEEKLY MONITORING OF SOLAR AERATORS**

Mr. Cravens commented on the lack of hard data on the breakdowns of our solar aerator systems, including (1) repair costs, (2) length of down time, and (3) number of systems which have required repairs. Mr. Shepherd suggested installing an electronic

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clock in each aerator to monitor any lapses in aerator operation. Mr. Bolick agreed to report the cost of an electronic monitoring clock to the full PBSB Board at the September board meeting.

**EVALUATION OF "LAKE EVALUATION FORM" AND POTENTIAL USE**

Mr. Cravens commented on our lack of ability to evaluate the relative effectiveness of our existing methods to combat algae (aerators, bacteria, chemicals, littoral plantings, etc.) in our lakes. After discussion, the committee decided to discuss any practical method of analysis of lake treatment methods at a future date.

**LAKE WATER QUALITY**

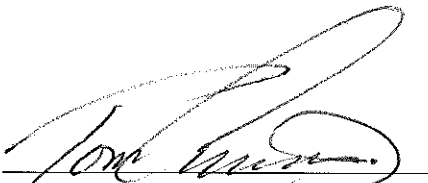
Dr. Trecker expressed concern over the high "out of spec" phosphorous readings reported in Clam Bay in April and May. His conclusions on 2016-2017 total phosphorus data in Pelican Bay lakes included, (1) there is no upward or downward trend in Basins 1-5, (2) Basin 3 shows the worst data, which may be impacting Inner Clam Bay, and (3) the Vizcaya lake consistently shows the worst data, which may be impacting Upper Clam Bay.

**OTHER BUSINESS**

None

**ADJOURNMENT**

**The meeting was adjourned at 2:55 p.m.**



Tom Cravens, Chairman

Minutes approved [] as presented OR [] as amended ON 2/26/18 date