

PELICAN BAY SERVICES DIVISION
Municipal Services Taxing & Benefit Unit

NOTICE OF PUBLIC MEETING

FEBRUARY 26, 2018

THE WATER MANAGEMENT COMMITTEE OF THE PELICAN BAY SERVICES DIVISION WILL MEET AT 2:00 PM ON MONDAY, FEBRUARY 26 AT THE PELICAN BAY SERVICES DIVISION, 3RD FLOOR OF THE SUNTRUST BUILDING, SUITE 302, LOCATED AT 801 LAUREL OAK DRIVE, NAPLES, FL 34108.

AGENDA

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 08/03/17 meeting minutes
5. Audience comments
6. Bay Colony beach dune swale maintenance & permit mod to restore drainage
7. Size of weir crest at discharge of OLS/Villages/Las Brisas lake
8. Current lake chemical treatments
 - a. Types of chemicals used
 - b. Established frequency standard of chemical applications
 - c. Annual cost per lake
9. Aerators
 - a. Annual maintenance costs, including service contract costs
 - b. Maintenance issues
 - c. Effectiveness
 - d. Status of installation of aerators – final phase
10. Blue tilapia test lakes
 - a. Annual cost of using blue tilapia (per lake)
 - b. *Authorization for restocking the Ridgewood Park lake
 - c. Consideration of expanded use of blue tilapia
11. Other business
12. Adjournment

**indicates possible action items*

ANY PERSON WISHING TO SPEAK ON AN AGENDA ITEM WILL RECEIVE UP TO THREE (3) MINUTES PER ITEM TO ADDRESS THE BOARD. THE BOARD WILL SOLICIT PUBLIC COMMENTS ON SUBJECTS NOT ON THIS AGENDA AND ANY PERSON WISHING TO SPEAK WILL RECEIVE UP TO THREE (3) MINUTES. THE BOARD ENCOURAGES YOU TO SUBMIT YOUR COMMENTS IN WRITING IN ADVANCE OF THE MEETING. ANY PERSON WHO DECIDES TO APPEAL A DECISION OF THIS BOARD WILL NEED A RECORD OF THE PROCEEDING PERTAINING THERETO, AND THEREFORE MAY NEED TO ENSURE THAT A VERBATIM RECORD IS MADE, WHICH INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED. IF YOU ARE A PERSON WITH A DISABILITY WHO NEEDS AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS MEETING YOU ARE ENTITLED TO THE PROVISION OF CERTAIN ASSISTANCE. PLEASE CONTACT THE PELICAN BAY SERVICES DIVISION AT (239) 597-1749 OR VISIT PELICANBAYSERVICESDIVISION.NET.

**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 _____] *date*