

**PELICAN BAY SERVICES DIVISION
WATER MANAGEMENT COMMITTEE MEETING
AUGUST 14, 2018**

The Water Management Committee of the Pelican Bay Services Division met on Tuesday, August 14 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

Jacob Damouni (*absent*)
Mike Shepherd

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

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

Also Present

Tom Barber, Agnoli, Barber & Brundage
Rick Swider, PBSB Board

Trent Waterhouse, Pelican Bay Foundation

APPROVED AGENDA (AS PRESENTED)

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 04/16/18 meeting minutes
5. Audience comments
6. *Lake remediation method recommendation
7. Evaluation of blue tilapia effectiveness (M. Bolick)
8. Status of solar powered aerators (M. Bolick)
9. Evaluation of effectiveness of aerators in algae control
10. Discussion of algae control methods
11. *Recommendation regarding evaluation of storm sewer lines
12. Discussion of the value of collection of water chemistry data
13. Alternatives to existing boat ramps

ROLL CALL

Mr. Damouni was absent and a quorum was established

AGENDA APPROVAL

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

APPROVAL OF 04/16/18 MEETING MINUTES

Mr. Shepherd motioned, Mr. Cravens seconded to approve the 04/16/18 meeting minutes as presented. The motion carried unanimously.

AUDIENCE COMMENTS

None.

LAKE REMEDIATION METHOD RECOMMENDATION

Mr. Cravens commented on the four methods of lake bank remediation, with varied costs, as presented by Agnoli, Barber & Brundage to the committee last year. At that time, the committee chose the St. Thomas/St. Martin lake 2-9 as the first lake for lake bank remediation. Mr. Shepherd commented that the Budget Committee has included \$500,000 in the FY19 budget for this purpose, and a similar amount will be accrued in subsequent years for the repairs of additional lake banks.

Mr. Tom Barber, consultant with AB&B, reported on the completion of a survey of lake 2-9 and recommended three different types of repairs for separate parts of the lake bank which included (1) a sheet pile wall, (2) Geoweb, and (3) turf mat, with a total estimated cost of \$340,538.

Mr. Shepherd motioned, Mr. Cravens seconded to recommend to the full board that we proceed with repair of lake 2-9 using the wall repair feasibility summary as was presented with an estimated cost of \$340,000 and will come up for secondary approval when we know the actual cost. The motion carried unanimously.

EVALUATION OF BLUE TILAPIA EFFECTIVENESS AND OTHER METHODS OF ALGAE CONTROL

Mr. Cravens commented on the PBSB's stocking blue tilapia in 20 lakes (in April/May 2018) to determine their effectiveness in algae control. Mr. Bolick provided before and after photos of ten of these lakes. The committee noted that these photos show a significant reduction in algae, although some algae can still be observed on these lakes. Mr. Cravens suggested that a few additional months are needed to evaluate the effectiveness of the blue tilapia.

The committee discussed the current methods of PBSB algae control, including aerators, bacteria, and chemicals. Mr. Shepherd suggested that other methods should be looked at, including alum and copper sulfate. Mr. Cravens commented on his opposition to the use of copper sulfate, and suggested that many PB residents would be opposed to it. Mr. Shepherd and Mr. Cravens suggested that staff contact a vendor to provide a proposal for a trial use of alum in one PB lake. Mr. Trent Waterhouse suggested that the PBSB urge PB homeowners' associations to self-fund additional installations of blue tilapia in their respective lakes.

RECOMMENDATION REGARDING EVALUATION OF STORM SEWER LINES

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Ms. Jacob commented on recent inspections of stormwater pipes by Envirowaste. She has not received any video footage from their completed work, nor has she received a proposal for additional work that was requested.

Mr. Shepherd commented that he would like to include an estimate for inspecting and documenting all Pelican Bay stormwater piping as part of a possible PBSB/County debt financing package. This information would be used to request the associated repairs from the County Road & Bridge Dept.

Mr. Dorrill commented that staff will (1) obtain an estimate of the total length of pipe within the six PB drainage basins from AB&B, and (2) contact the County Procurement Dept. to determine whether the PBSB can hire another pipe inspecting contractor, if the two County contractors are non-responsive.

The committee requested that staff provide the video of the stormwater pipes, taken by Envirowaste, to the PBSB Board at the October board meeting.

THE VALUE OF COLLECTION OF WATER CHEMISTRY DATA

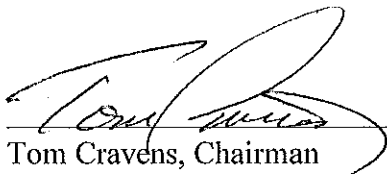
The committee discussed whether to continue spending \$50,000 annually for the collection and analysis of water chemistry data from Pelican Bay lakes and decided to bring this issue to the PBSB Board at the October board meeting.

ALTERNATIVES TO EXISTING BOAT RAMPS

Not discussed

ADJOURNMENT

The meeting was adjourned at 2:13 p.m.


Tom Cravens, Chairman

Minutes approved [] as presented OR [] as amended ON 10/18/18] date