

**PELICAN BAY SERVICES DIVISION
WATER MANAGEMENT COMMITTEE MEETING
NOVEMBER 18, 2016**

The Water Management Committee of the Pelican Bay Services Division met on Friday, November 18 at 11:00 a.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

Scott Streckenbein
Dave Trecker

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

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

Also Present
Susan O'Brien, PBSB Board

Jeremy Sterk, Earth Tech Environmental

APPROVED AGENDA (AS AMENDED)

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 10/20/16 meeting minutes
5. Audience comments
6. Water quality status of lakes (recent reports)
7. Sediment analyses
8. Monitoring Clam Bay for the presence of herbicides used to treat algae in Pelican Bay lakes.
9. Cost-effectiveness of various treatments
10. More complete information on the "lake spray records"
11. Lakes selected for "microfloc" testing
 - 1-7 (Naples Grande front lake) and 3-5 (The Club Clubhouse lake)
 - A. Update on three lakes (*add-on*)
12. Plans to deal with lakebank erosion
13. Adjournment

ROLL CALL

All members were present and a quorum was established

AGENDA APPROVAL

Mr. Streckenbein motioned, Dr. Trecker seconded to approve the agenda as amended with the addition of item #11A. The motion carried unanimously.

APPROVAL OF 10/20/16 MEETING MINUTES

Mr. Streckenbein motioned, Dr. Trecker seconded to approve the 10/20/16 meeting minutes as presented. The motion carried unanimously.

AUDIENCE COMMENTS

None

WATER QUALITY STATUS OF LAKES (RECENT REPORTS)

Dr. Trecker commented on the November 2016 report by CH2M Hill entitled, "Pelican Bay Stormwater Lakes Water Quality Monitoring Program: August 2016 Sampling Event Data Review" and highlighted that there has essentially been no change in total nitrogen and total phosphorus in Pelican Bay lakes since 2011.

Mr. Cravens commented that all of the continual education of PB residents over the last five years has resulted in no reduction in nutrients.

Dr. Trecker commented on a telephone conversation he had with Bill Morris who heads a water management group in Pelican Pointe, a community located just north of Venice, FL, and commented on their experiences/recommendations/discoveries on aeration, littoral plantings, chemicals, recycled water, phosphate-containing fertilizers, blue tilapia and shoreline buffers.

SEDIMENT ANALYSES

Dr. Trecker reviewed current lake sediment data in ten lakes as compared to April 2016 and August 2013. He noted that little change is apparent. His conclusions were, (1) nearly all lake copper (over 99.99%) is in the sediment, (2) soluble copper levels in Clam Bay remain low, (3) high levels of sediment phosphorus (94 to over 99%) and steady levels of soluble phosphorus continue to fuel algae growth, and (4) since sediment levels in most lakes tested remain very low at 1-3% (although levels in lakes 2-9, 2-12, and 1-2 show levels of 13-20%), it appears dredging will not be needed for decades.

MONITORING CLAM BAY FOR THE PRESENCE OF HERBICIDES USED TO TREAT ALGAE IN PELICAN BAY LAKES

Mr. Cravens commented on the opinion received from Mr. Donn Brown, President of Earth Tech Environmental concerning adverse affects from herbicides (Hydrothol 191, Tribune, and Rodeo) to Clam Bay: Mr. Brown's opinion is that he would find it highly unlikely that these herbicides could be linked to the die-off in Clam Bay since these chemicals have a half-life of 1-5 days and therefore, dissipate through microbial degradation.

COST-EFFECTIVENESS OF VARIOUS TREATMENTS & MORE COMPLETE INFORMATION ON THE "LAKE SPRAY RECORDS"

Mr. Cravens commented on staff's continued work on cost analyses of various lake treatments.

LAKES SELECTED FOR "MICROFLOC" TESTING

Mr. Bolick commented that the Naples Grande front lake and the Club Clubhouse lake have been selected for "microfloc" testing. Ms. Jacob reported that a CH2M Hill proposal for a "microfloc" trial in two test lakes has been requested but not received.

UPDATE ON THREE LAKES (ADD-ON)

Mr. Cravens provided a powerpoint presentation update on three lakes:

(1) Ridgewood Park Island Lake: Mr. Cravens provided photos of apparent surface microcystis (cyanobacteria) on this lake which was restocked with blue tilapia in July. Mr. Bolick commented that this lake will be treated with peroxide within the next few days and that the lake is scheduled for an aerator installation during this fiscal year.

(2) St. Maarten Lake: Mr. Cravens provided photos of surface algae on this lake, despite the lake having four aerators. Mr. Bolick commented that this lake will be sprayed within the next few days.

(3) Community Center Lake: Mr. Cravens provided photos of this lake which was restocked with blue tilapia in July. No algae was observed. The committee suggested that staff obtain a list of communities (from our tilapia vendor) using blue tilapia (to treat algae) to contact to explore their experience with blue tilapia.

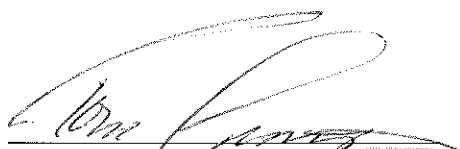
Dr. Trecker announced that on Dec. 9 the President's Council will conduct an informal discussion of lake management for information sharing. Dr. Trecker will attend.

PLANS TO DEAL WITH LAKEBANK EROSION

Staff provided a proposal of \$37,200 from Agnoli, Barber & Brundage, Inc. to provide (1) an analysis/inspection of 47 of the PBSB master system lakes, (2) a sound analysis method to determine the most logical order of future lake remediation based on risk assessment, and (3) provide a report summarizing findings and specifics of a future plan for lake remediation. Based on committee consensus, Mr. Dorrill will obtain a new ABB proposal for an updated study, cross section surveys, evaluation and proposed plan to mitigate lake bank erosion of only those lakes measured in 2014.

ADJOURNMENT

The meeting was adjourned at 12:00 p.m.


Tom Cravens, Chairman

Minutes approved [] as presented OR [] as amended ON [01-26-17] date