

DELAVAN LAKE SANITARY DISTRICT

MINUTES

SPECIAL MEETING

May 2, 2018

2:00 P.M.

CALL TO ORDER.

President Miller, called the meeting to order at 2:00 P.M. at the Delavan Lake Sanitary District located at 2990 County Rd F South, Delavan, Wisconsin.

ROLL CALL. Present: Thomas Miller, President
Kim O'Keefe, Commissioner
Thomas Johnson, Commissioner
Richard Beers, Commissioner
David Reider, Commissioner - Excused

Visitors: Dale Robertson, USGS
Also Present: Administrator Jim DeLuca,
Lake Manager Charlie Handel,
Audrey Greene

DECLARATION OF A QUORUM.

President Miller declared a quorum present for doing business.

COMMENTS AND SUGGESTIONS OF CITIZENS PRESENT

No citizens present.

DISCUSSION/POSSIBLE ACTION REGARDING DELAVAN LAKE PELLET TESTING

Commissioner O'Keefe began the discussion by explaining to Dale Robertson that DLSD has agreed to pay the Town for ½ of the cost for using sediment reducing pellets in the wetland ponds. His concern is what happens to the phosphorous that are attached to the sediments when they are reduced. And, what is the best way to measure the phosphorous in the sediment and/or water to determine what happens to it? Commissioner Johnson wondered if the pellets are doing the job they are intended for and what impacts do they have on the

water. Commissioner Beers stated that this meeting is to plan a study. What to measure and why, where and how often.

Dale Robertson, USGS responded, explaining that he has been involved in 2 previous discussions about the pellets, at the DLSD February 21, 18 regular meeting and on March 6, 2018 in Madison with DLSD staff, Lake and Pond Solutions staff, Aquafix staff and Landon Wiet of Natural Lake Biosciences. Dale stated that he doesn't believe the pellets have been tested except for a very small area of a lake in Florida. Dale explained that Phosphorous does not become a gas like nitrogen and therefore so it can not simply dissipate into the air. Dale explained that a change in the sediment depth will be fairly easy to measure but that measuring Phosphorous in the sediments will be more difficult. Phosphorous concentration in water samples above the sediments will be easier to measure.

Following a lengthy discussion it was decided that water samples would be taken at 5 locations on the lake every two weeks. These locations are: at the Mound Road Bridge, Highway 50 bridge, at the Deep Hole and the East and West Ponds. USGS currently takes readings once a month at Mound Road, Highway 50 and the Deep Hole. Samples will be tested for both Total and Dissolved Phosphorous. In order to measure changes to the sediment levels in the wetland ponds and Inlet, staff gauges will be placed in the each pond and in (8) locations of the Inlet, before the pellets are introduced in May. These Inlet locations will be (4) where pellets will be added and (4) across the channel where no pellets will be added. Once the staff gauges are in, the sediment level will be measured with a secchi disk. These levels will be measured on a continuing basis through the summer at 2 weeks following the addition of pellets. For example, the first pellets will be introduced May 15th and the sediments at the staff gauges will be measured 2 weeks later. Two weeks after that, additional pellets will be added and 2 weeks later sediments at the staff gauges will be measured again. This will continue until the last pellets are added around September 15th and a final measurement of sediments will be taken 2 weeks later.

Commissioner Johnson suggested that in order to measure phosphorous concentration in the sediments, it would be easier to reduce factors that can influence results if we placed sediment and lake water in tanks with aeration and measured the phosphorous in the water above the sediments. After discussion it was decided that DLSD staff would set up tanks, add sediment and lake water then add the appropriate amount of pellets to duplicate the pellet

addition in the field. Water samples will be taken at predetermined intervals and analyzed for total phosphorous and dissolved phosphorous. Dale will provide guidance to set up this test.

Dale Robertson requested a meeting with himself, Heidi Bunk, DNR and Charlie Handel, DLSD at the Waukesha DNR office sometime before the fall turnover to discuss the possibility of opening the dam to produce a lake flush during fall turn over to decrease the levels of phosphorous in the lake.

COMMENTS AND SUGGESTIONS OF CITIZENS PRESENT

No citizens present.

ADJOURNMENT

There being no further items to discuss, Commissioner O'Keefe made a motion to adjourn the meeting. Commissioner Beers seconded the motion which passed unanimously. The meeting adjourned at 4:30 p.m.



Kim O'Keefe, Secretary

Date Approved: 6/20/2018