

Little McDonald, Kerbs, Paul Lake Annual Meeting
Saturday, July 10, 2021, 9:00 A.M.
Perham High School Studio Room
These minutes are not approved

Agenda

Old Business:

1. Introductions, Board members present: Jim Nigg, Blair Anderson, Dave Dunning, Boone Caughey, Joe Esser, Steve Kulik, Mark Plencner, Steve Nelson. Absent, Denny Davidson.
Guests, John Shockley, Ohnstad Twitchell Law Firm, Chad Engels, Moore Engineering.
2. The meeting agenda and meeting rules were approved with a motion from Joan Covington and a second from Roger Neitzke. Motion carried. The agenda is attached.
3. The minutes of the 2020 Annual Meeting were approved with a motion made by Al Bierdeman, followed by a second from David Wenzel. Motion carried. The approved minutes are attached.
4. Dave Dunning presented and explained the 2020 year- end financial report. A motion was made by Dennis Lunde followed by a second from Bruce Wessman to approve this financial report. Motion Carried. The 2020 Financial Report is attached.
5. A video that was produced in 2015 and used to describe the high water to State Legislators was viewed by the audience. Memories of sand bags, rip-rap projects and high waves were revived.
6. The proposed Kerbs, Little McDonald navigational channel was reviewed as presented by Joe Esser and Angela Willenbring. The LMKP-LID received notice on May 25, 2021 that the Minnesota Department of Natural Resources has approved our permit application to construct a navigational channel between Kerbs Lake and Little McDonald Lake. The channel will be fourteen feet wide, four feet deep and about one hundred feet long. The channel sides will be rip-raped with stone. The two hundred cubic feet of spoils will be placed on two-hundred fifty feet of land purchased by some Kerbs Lake residents and they formed a LLC for this purpose. This will be a one- way traffic flow with alternating traffic. DNR recommended speed and channel markings will be installed. Chad Engels also contributed information about the construction details of the channel. A Conditional Use Permit is required by Otter Tail County and this will be addressed at a future Otter Tail County Planning Commission meeting. The County Commission will also have to approve the project.
7. Mark Plencner reviewed the present By-Laws and the changes that were proposed by the Board of Directors. The most notable change was in the voting rights where each property owner will now have two votes with a maximum of two votes per parcel/resident. Questions were answered regarding this by Mark. A motion to pass was made by Roger Neitzke with a second from Kathryn

Anderson. Motion carried. The revised By-Laws will be posted on the LMKP-LID web page.

8. Moore Engineer, Chad Engels presented information about the permit application to the Minnesota Department of Natural Resources for construction of the navigational channel between Kerbs and Little McDonald lakes. The permit required much detail and supporting evidence. The DNR granted the permit and complemented Moore Engineering on the quality of their permit application.

New Business

9. Marcia Wiegandt, Jeff Lohman, David Wenzel, Glenn Schreier, Cindy and Larry Mollins, Trent and Magie Swanson and Bonita and Jim Haider were recognized for their continued efforts to maintain the LMKP-LID web page, take lake level readings and collect water samples along with secchi disc readings. Secchi Disc readings continue to get better with Kerbs at 16 feet, Little Mac at 28 and Kerbs 29.5 feet. Paul lake presently is at -3.3 inches OHW and Little McDonald at -1.75 inches.
10. Mike Kurkowski of Northwest Services gave a report on the mechanical operation of the pumphouse. Mike explained why the red light goes on and the multiple meaning of the alarms. Most often the alarm is activated because of repeated and often back wash cycles. Inconsistent or interrupted electrical supply has also produced alarms. Mike is alerted of the alarm situation electronically as a message is sent from the pump house to Mike's phone. Most of the needed repairs have been covered by the manufacture's warranties.
11. Roger Neitzke gave a report on Aquatic Invasive Species (AIS). He serves on the Otter Tail County AIS committee. Roger reminded residents to be sure they inform visitors to inspect their boats when arriving for a weekend. Spiney Water flea is the latest concern. Roger spoke to the history of having some funds set aside for treatment of an aquatic invasive outbreak. Often immediate treatment is the most effective. Dave Dunning will speak to this item in the proposed 2021-22 General Operating expenses
12. Dave Dunning, LMKP-LID treasurer, presented the 2021-22 General Operating Budget. Dave also stated that the \$247,000 held in reserve will have dedicated portions of that reserve as follows: \$16,000 for common leg repairs, \$75,000 for pump house repairs, and \$20,000 for Invasive Species treatment. Another \$15,000 will be used for the reduction of the 2021-22 General Operating Budget to \$70,000.
A motion was made to approve this budget and to allow the Board of Director's to use dedicated reserve funds for common leg pipe repairs, pump house repairs or AIS treatment in excess of \$5,000. This motion was made by Jim McLeod to approve the presented 2021-22 budget a second came from Dave Wenzel. This motion was approved.
13. The Board of Director's election results are: Tim Bertschi 156 votes, Mark Plencner, 128 votes, Angela Willenbring 127 votes and Dave Lydeen

105 votes. The top three vote totals, Tim, Mark and Angela, have been elected to the LMKP-LID Board of Directors. Each of the elected will serve a three year term.

Denny Davidson will be departing the Board of Directors after serving a three year term. Denny brought a construction management career to the Board and was very knowledgeable of the water flow between Paul and Little McDonald. Jim Nigg also departs after serving two three- year terms. Thanks to Denny and Jim for your willingness to serve

14. A motion to adjourn the meeting was made by Ardell Wiegandt with a second From Al Bierdeman. Motion carried, the meeting adjourned at 10:40 A.M.

The LMKP-LID Board of Directors held a meeting following the Annual Meeting to establish the Board of Director's Executive Committee. The meeting opened at 10:47 A.M. A motion was made by Angela Willenbring to have Dave Dunning be the Chairperson, second from Joe Esser. Motion Carried, 8-0. A motion from Steve Nelson, second from Angela W. to have Blair Anderson be the Vice-Chair. Motion carried 8-0. A motion was made to have Joe Esser be the treasurer with a second from Steve Kulik. Motion passed 8-0. The secretary will be Tim Bertschi as a motion from Joe E. with a second from Angela W. was passed 8-0. The meeting adjourned at 10:49 A.M.

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Saturday, July 10, 9:00 A.M., Perham High School, Perham, Minnesota

Agenda

OLD BUSINESS:

1. Introductions
2. Approve Minutes of LMKP-LID 2020 Annual Meeting Minutes.
Board recommends motion to approve.
3. Approve 2021 LMKP-LID Annual Meeting Agenda and Meeting Rules.
Board recommends motion to approve.
4. LMKP-LID 2020 Treasurer's Report, Dave Dunning
Board recommends motion to approve.
5. Memories from the past video.
6. LMKP-LID Little McDonald-Kerbs Lake Channel.
7. By-Laws revision, Mark Plencner
Board recommends motion to approve.
8. Engineer's Report, Chad Engels, Moore Engineering.

NEW BUSINESS:

9. Lake Level Information.
Secchi Disk, Paul Lake 16 feet, Kerbs, 29.5 feet, Little McDonald feet.
Water Levels.
10. Outlet Pumping Operations, Northwest Services, Mike Kurkowsi
11. Invasive Species, Roger Neitzke
12. 2021-22 General Operating Budget, Dave Dunning.
Board recommends motion to approve.
13. Board of Director's election results.
Board of Director's meeting to follow to establish Executive Committee.
14. Adjourn Meeting
Motion to approve.

LMKP-LID Annual Meeting Rules

1. The meeting will be conducted according to Robert's Rules of Order.
2. To obtain the floor, a member shall move to a microphone, state their name and identify the lake they live next to.
3. Comments from members shall be limited to three (3) minutes per member at a specific time.
4. If a question cannot be answered, because of the need to reference LMKP-LID records, the response will be e-mailed or posted USPA to the LID member within two weeks.
5. Minnesota State Health guidelines regarding Covid-19 will be followed for our business meeting.
6. John Shockley will serve as the meeting parliamentarian.

7. Glenn Schreier will serve as the meeting recorder.

Little McDonald Kerbs & Paul Lake Improvement District		
	Approved	Proposed Budget
Income/Expenses	2021	2022
INCOME	Budget	
LID Assessments from County	\$98,000.00	\$70,000.00
Total Income	\$98,000.00	\$70,000.00
OPERATING EXPENSES		
LID General Operating Expenses		
Member Mailings	\$400.00	\$400.00
Meetings Expense (facility & publishing)	\$500.00	\$500.00
PO Box	\$70.00	\$70.00
Office Expense/Web Site Management	\$400.00	\$400.00
Postage/ Misc	\$40.00	\$40.00
COLA (water testing)	\$1,200.00	\$1,200.00
Board of Directors Directors & Officer Liability Insurance	\$900.00	\$1,000.00
Environment (spraying insects)	\$4,800.00	\$4,800.00
Legal Expenses		\$5,000.00
Engineering Expenses		\$5,000.00
LID General Operating Expenses - Total	\$8,310.00	\$18,410.00
LID General Operating Special Projects		
Audit/Audit review	\$7,500.00	
Moore Engineering	\$5,000.00	
Ohnstad	\$5,000.00	
LID Special Projects Expenses - Total	\$17,500.00	\$0.00
LID General & Special Operating Expenses - Total	\$25,810.00	\$18,410.00
Outlet Expenses & Operations		
Electricity (Pumping) / Heat	\$36,000.00	\$30,000.00
Phone Line Arvig	\$500.00	\$640.00
Maintenance & Pumping Observations	\$16,000.00	\$16,000.00
Property Maintenance (snow removal mowing)	\$1,200.00	\$1,200.00
RMB Labs Testing	\$6,000.00	\$5,000.00
Liability Insurance - Pipeline/Pumphouse Common Leg	\$10,000.00	\$9,000.00
Locating Services	\$490.00	\$2,000.00
Otter Tail County	\$2,000.00	\$2,750.00
Outlet Operational Expenses - Total	\$72,190.00	\$66,590.00
Total General, Special Project & Outlet Operational Expenses	\$98,000.00	\$85,000.00
General Operating Fund Reduction		(\$15,000.00)
Annual Assessment	\$98,000.00	\$70,000.00

Little McDonald, Kerbs, Paul Lake Improvement District Pump Station

The Little McDonald Lake pumping station is located at 44930 East Little McDonald Drive off the eastern shore of Little McDonald Lake. The pumping station consists of a building containing two 150 horsepower vertical turbine pumps and motors, two automatically-flushing micron mechanical filter units, associated 480volt, 3 phase electrical supply systems, building heat, ventilation systems, and a main control panel with an alarm notification system. The lake water is brought into the pump station through a lake water intake screen located on the bottom of Little McDonald Lake and transferred to the pumping station wet well via an underground pipe. The pump wet well at the lift station is a ten- foot diameter, 26 feet deep underground precast concrete structure located within the pump station building.

From the pumping station intake wet well, the water is pumped, filtered, and discharged through a 24 inch and 30- inch pipelines to the Otter Tail River at a permitted maximum flow rate of 20 cubic feet per second (9,000 gallons per minute). The 24- inch pipeline extends from the Little McDonald Lake pump station to the east approximately 2.9 miles to 460 Street east of Devils Lake, where it combines with a pipeline from the Devils Lake pump station. From 460 Street, the 30- inch pipeline then extends north and east approximately 2.3 miles and outlets to the Otter Tail River. In addition, there are two 24- inch culverts installed which interconnect Paul Lake to Rusch Lake and Rusch Lake to Little McDonald Lake respectively. These culverts are meant to allow water, above the ordinary high -water levels of each lake, to flow to Little McDonald Lake.

The Otter Tail County Public Works staff will be responsible for monitoring downstream water levels. In the event that downstream water levels require the system to be shut off, or allow the system to be turned back on, as outlined in the approved Operating Plan, Otter Tail County Public Works staff will contact the Provider to turn the pumps off or on.

The Filter System

The AUTO SELF-CLEANING STRAINER (OMEGA-54K) is a sophisticated yet easy-to operate automatic filter, with a self-cleaning mechanism driven by electric motor. THE AUTO SELF-CLEANING STRAINER consists of 9 stainless steel weave-wire filter units installed in a single housing. The filter supports filtration degrees of 300 micron, and in 20" inlet/outlet diameter.

The AUTO SELF-CLEANING STRAINER starts the self-cleaning process when the pressure differential across the screens reaches a pre-set value or a predetermined lapse of time has passed. Cleaning each one of the filter elements is carried out by a suction scanner, which rotates inside the element in a spiral movement while removing the filtration cake from the screen and expels it out through the exhaust valve.

The 9 scanners rotation is operated by a 2-way (fwd/rev) drive unit, which is attached to the scanners by a multi- threaded shafts, providing the linear movement.

The exhaust valve is activated for the duration of the cleaning cycle by a 3-way solenoid.

During the self-cleaning process, which takes approximately 30 seconds, filtered water continues to flow downstream from the filter.

Water Pumped

The Pumps were started on September 5, 2018 for testing and were set to pump a combined 15 cfs/second.(cubic feet per second). Mike Kurkowski, the LMKP LID contracted maintenance person of Northwest Services, has since reduced the output of each pump to about 7.07 average cfs/sec. Mike feels this is the most efficient level for the pumps to operate at.

Since the pumps were started in September of 2018, **1,869,881,318** gallons of water have been pumped and filtered. Each pump produces about 188,000 gallons per hour per day. This is about 6,000 gallons per second.

Northwest Services, Mike Kurkowski, provides the maintenance of our pumping operation.

As the LMKP-LID is moving into the management stage of our project, Mike K. has experienced situations that you should be aware of regarding pumping operations.

Pumphouse lights. There are two lights, red and green, that are visible from East Little McDonald Dr. A green light means one or two pumps are operating. A red light indicates an alarm has been set and Mike is informed electronically. A red and green light states that an alarm was set, red light, and the pumps restarted, green light and are operating. This usually happens when the electrical supply is interrupted, often a few seconds will start the pumps to shut down automatically and when electricity resumes the pumps activate on their own.

No lights indicate the system is not operating.

The filtering system is very precise. Microscopic zebra mussel veligers cannot be sent downstream and must be filtered as stated in our permit terms from the Department of Natural Resources. When Little Mac turns over or high winds stir up the lake the filtering system is stressed. Usually the filter backwashes and cleans itself once every fifteen minutes. High levels of turbidity in the lake water can set the backwash procedure once every 15 seconds. Mike feels this could harm the mechanical pumping system and prefers to turn the pumps off until the lake water clears.

LMKP-LID has a contract with Lake Region Electric Cooperative (LREC) that gives us lower rates when electrical supply can be interrupted. When high electrical demand happens across the LREC electrical grid Lake Region Electric can stop our electrical supply with notification. This has happened when we had several days of 90 degree temperatures in June. Mike is notified in the morning and the power supply is discontinued from about 2 P.M. to about 7 P.M. The pumps shut down automatically when power is cut but need a manual start. If a heat trend is in the forecast Mike will keep the pumping operation off until electrical supply returns to normal.

The LMKP-LID has received questions about why the pumps are off. Hopefully this helps with understanding how and why our pumping systems works. Our permit with the Otter Tail County states that we can lower lake levels to ordinary high water and we cannot pump when lake levels are below ordinary high water.

Gallons pumped: 2018-, 805,913,823 gallons pumped
2019-, 265,208,860 gallons pumped
2020-. 798,758,635 gallons pumped
Total Gallons pumped, 1,869,881,318

All Time High Water Level, Little Mac, August 2, 2011, + 54.75 inches above ohw

These water levels were taken from Little McDonald records.

April 8, 2017, + 35 inches ohw, December 13, 2017, +29..25 inches ohw

May 5, 2018, + 31.75 in ohw, December 14, 2018, +12 in. ohw (pumping started in
September 2018)

April 28, 2019, + 10 in ohw, December 3, 2019, +11 in. ohw

April 27, 2020, + 19.80 ohw. December 5, 2020, + 11in. ohw

April 7, 2021, + 6.0 in ohw. June 23, 2021, **at OHW**

July 6, 2021, -1.2 in. ohw