

MUDHEN LAKE REHABILITATION DISTRICT MEETING

March 12, 2022

Meeting was called to order at Daniels Town Hall at 8 AM by Mike Huber on Saturday, March 12, 2022. There were 6 members in attendance at the Town Hall and 14 online for live presentation. 7 attendees viewed the recorded session.

I. Secretary's report was read by Mary Sagstetter. Motion was made to approve secretary's report by Mike Huber. Motion was seconded by Ryan Tader. Motion carried.

II. Treasures report was read by Kandy Unger.

Current balances: Total Funds= \$12,417.10 Checking \$263.31 Savings \$12,153.79

See attached for breakdown of finances.

Motion made to approve treasurers report by Chuck Awe. Motion was seconded by Ryan Tjader. Motion carried.

Old Business:

A. Lake Update

1. ILIDS Report – Mike will contact Eric Lindberg to put in the ILIDS camera. Installation date is typically in early May.
2. Lake Monitoring –we need to make sure that Steve Hoffman has the oxygen monitoring
3. Purple Loosestrife – Discuss and set a date for the harvest during June meeting.

B. Update for the MUDHEN Lake outlet study

1. Review of Feasibility Study -Mike introduced Chris Goodwin, PE Manager/Water Resources, Ayres Associates Inc. Chris shared the Feasibility and options for the lake structure. There are two key issues, DNR permitting options and the easements. A handout was shared and visually available for those attending online. The study is also attached to these minutes.

This meeting was recorded. Option for listening to the meeting was available for one week after the meeting. Audio of recorded session is available per request.

2. Public Comments

Chris answered the following questions during the meeting:

- How do you know there are 2 outflow flow locations if you did not walk the area southeast of the bridge?
- For the easement decisions, would property owners have a map or something that shows what the 100-year flood level/line would be?
- Would financial impact to property owners be given when you present the easement decision?
- An easement is a give from the owner to the recipient. What is the 'give'. What exactly can be done within that easement, if granted.
- You indicated the structure would be smaller/simpler than originally thought (if it was going to take all the water). Do we have a better sense of the scale of the cost?

- If only 1/3 of the water is going under the bridge, then a dam will not matter.... we need to know where the rest of the water is going.
- How many landowners are we talking about?
- How much will it cost to find where the 2/3 of the outflow water is going?
- How many landowners would the cost be split amongst?
- We talk about effects of high water, how about effects of prolong low water?
- Could we get a flowchart and approximate timing of the entire process? With only 4 meetings per year, it is important to make as much progress as possible at each meeting.
- We talk about effects of high water, how about effects of prolong low water?
- How many landowners are on the lake?

Recorded session contains the answers provided. Before moving forward with any options, the Lake District needs to review permitting options with the DNR.

IV. New Business

- A. Discussion on how to move forward with flooding/flowage easements and funding.
 This was listed as next steps, yet Mike feels that this is premature at this time as Chris needs to check with the DNR. Our funds have been exhausted with Ayres. We have paid one invoice and the other is now due. Chris will move forward with contacting the DNR, Mike will keep in touch with Chris to determine what steps are next both financially and with the study.

Mike Huber adjourned the meeting.

Respectfully Submitted,
Mary Sagstetter
 Secretary

XX

Reports On-line:

2021 MUDHEN LAKE ILIDS (lake camera) report located at:

https://docs.google.com/document/d/1Ycl21h6ylFjCgll8seFkMnM3g1_4DrLEVJ4GbFzrJ8Q/edit?usp=sharing

MUDHEN Aquatic Plant Management Plan: 2018 – 2023:

<https://www.burnettcounty.com/DocumentCenter/View/7374>

Mud Hen Lake Rehab District Meeting Minutes:

<https://townofdaniels.com/mudhen-lake-rehab-district>

Upcoming Mud Hen Lake Rehab District Board Meetings:

June 11, 2022/ **Annual Meeting** August 13, 2022 / October 8, 2022

All meetings are held at 8 AM at Daniels Town Hall

MUDHEN LAKE REHAB DISTRICT QUARTERLY REPORT

3/1/22

Date	Description of Deposit or Expense	Check #	Total Beginning Balance \$14,580.72		Checking Balance \$389.94		Savings Balance \$14,190.78	
			Received	Expense	Received	Expense	Received	Expense
10/06/21	Burnett Cunty Land & Waters (Donation)	1099		\$150.00		\$150.00		
10/06/21	League of WI Cities (RFP Ad)	1100		\$161.00		\$161.00		
10/23/21	League of WI Municipalities (RFP Ad)	1101		\$150.00		\$150.00		
10/25/21	Transfer from Savings				\$500.00			\$500.00
10/27/21	Check #1099 Deducted Twice by Bank			\$150.00		\$150.00		
10/29/21	Interest		\$0.11				\$0.11	
11/30/21	Interest		\$0.11				\$0.11	
12/31/21	Interest		\$0.11				\$0.11	
01/18/22	Transfer from Savings				\$3,100.00			\$3,100.00
01/18/22	Ayres (Feasibility Study)	1102		\$3,115.63		\$3,115.63		
01/31/22	Interest		\$0.10				\$0.10	
02/09/22	Deposit - 1st Half Taxes		\$1,562.50				\$1,562.50	
02/28/22	Interest		\$0.08				\$0.08	
Total			\$1,563.01	\$3,726.63	\$3,600.00	\$3,726.63	\$1,563.01	\$3,600.00

Total					Checking		Savings	
Beginning Balance	\$14,580.72				Beginning	\$389.94	Beginning	\$14,190.78
+ Total Receipts	\$1,563.01				+ Receipts	\$3,600.00	+ Receipts	\$1,563.01
Sub total	\$16,143.73				Sub total	\$3,989.94	Sub total	\$15,753.79
- Total Expenses	\$3,726.63				- Expenses	\$3,726.63	- Expenses	\$3,600.00
Ending Balance	\$12,417.10				Ending Bal.	\$263.31	Ending Bal.	\$12,153.79

Environmental Sentry Protection, LLC

PO Box #1301
Maple Grove, MN 55311
6122751440
eric@lakesentry.net



Estimate

ADDRESS

Mud Hen Lake

SHIP TO

54840

ESTIMATE # 1198

DATE 02/02/2022

ACTIVITY	QTY	RATE	AMOUNT
2022 Estimate			
Service:Monthly Service Unlimited video capture/storage, website access, 500 video/month review, real-time reporting, network management, suspect AIS violation documentation to enforcement, remote system and camera maintenance, component repair service, training, off-site assistance.	6	245.00	1,470.00T
Service:Install Onsite install of housing, replace gaskets/desiccant, test system performance	1	200.00	200.00T
Service:Deinstall Electronics Sleeve and Store Remove camera and electronics from housing. Attach 5' red/white utility marker to housing and leave in place. Store electronics and charge batteries.	1	125.00	125.00T
Service:Mileage Mileage rate for travel (30% of actual mileage) install and deinstall	120	0.75	90.00T
Monthly sevice includes review of 3000 videos. Please advise if you would like us to view all videos for your site.			
		SUBTOTAL	1,885.00
		TAX	0.00
		TOTAL	\$1,885.00

Accepted By

Accepted Date

MEMORANDUM

Site: Mud Hen Lake

From: Chris Goodwin, PE, Jenna Lepper.

Date: March 13, 2022

Project No: 26-1319.00

Re: Feasibility Study

Introduction:

Lake levels in Mudhen lake historically were controlled by boards placed in the outlet stream underneath an existing snowmobile bridge. The DNR determined that this structure was unauthorized and required the lake district to remove the boards and supports. The purpose of this study was to evaluate options to construct a new dam at the location of the existing structure.

The overall goal of the Lake District was to evaluate options to restore the lake to historic levels experienced when the boards were in place. Due to budget limitations the scope of this study was significantly reduced to a high-level evaluation of options to restore lake elevations.

Relevant elevations are presented in the table below. Of note are the minimal impact the removed structure actually has on flood elevations and the one foot difference between the historic lake elevation and the lidar wetland elevations.

Average Historic Lake Elevation	970.00 ft
Average Historic Lake Elevation (Last 5 years)	969.62 ft
Lake Elevation Day of Survey	969.19 ft
100-Year Lake Elevation no boards (Existing)	971.14 ft
100-Year Lake Elevation with boards	971.25 ft
Lidar Elevation of Wetland Overflow	971.00 ft

The study found that more flow exits Mudhen lake to the south through a wetland complex than goes through the existing structure. See Figure 1 below.



Figure 1

Before moving forward with any options, the Lake District needs to review permitting options with the DNR. Our model shows that the structure the DNR required removed, increased the 100 year flood elevation by 0.11 feet. We found that replacing the existing structure is likely not permissible under Chapter 31 as a dam (not functioning as a dam), but a permit should be pursued for a water control structure under Chapter 30. This will require a detailed study to determine how wide and what elevation the overflow should be design to. The next step to would be to share these findings with the WDNR and discuss permit options under Chapter 30.