



The Dead Lake Association
Annual Meeting
August 5, 2023



Lakes reflect the character of the land and the people within the lakeshed. Individual and community stewardship is necessary for the long-term health of the lake.

Dedicated to Clean Water

AGENDA
DEAD LAKE ASSOCIATION ANNUAL MEETING
Cactus Meeting Room, Perham, MN
August 5, 2023
5:00 pm

Welcome: Don Janes

Introduction of Board Members a

*Jim Hatlevig is retiring from the board. Thank you, Jim, for all that you do.

Past Minutes of 2022 **(Please read before start of meeting)**

Treasurer's Report **(Please read before start of meeting)**

Overview of Activities:

New Business

Board Nominations

Vote (paid members only can vote)

Speaker: AIS Detector, Lee Mindemann, Star Lake

Adjourn

NOTE: There will be an hour social following the meeting. Try your hand at the games for chances to win one of the prizes.

Dead Lake Association Annual Meeting
August 5, 2022
Cactus, Perham MN

Co-chair, Don Janes, called the meeting to order at 5:05 P.M. He introduced board members who have completed their term of service: Diane Lund, Denny Trudell, Judy Herzog, and Mike Herzog. Jim Hatlevig and Carolyn Reynolds will continue on the board. Mr. Janes introduced a qualified slate of candidates recommended by the board and called for nominations from the floor. Ernie West made a motion to approve the slate of candidates. The motion was seconded by Dave Stang. Motion carried. New board members are Donna Arntson, Ward Arntson, Larry Ewer, Craig Lund and Stephanie Johnson. Don Janes and Terry Janes will begin a second term on the board.

Jim Langlie spoke to members about help available through a 911 call. The Dent Fire and Rescue Department services include lift assistance, initial emergency care and assistive technology for CPR.

A motion was made by Mike Herzog to approve the minutes from the 2021 Annual Meeting. Second by Terry Sullivan. Motion Carried.

The Treasurer's Report was previously accepted by the Board of Directors, sent out to members and included in the Annual Meeting Packet. Motion to accept the Treasurer's Report by Larry Ewer. Second by Mike Herzog. Motion carried.

A motion to adjourn was made by Mike Herzog. Second by Judy Herzog. Motion carried and meeting adjourned at 5:33 P.M.

Respectfully submitted, Terry Janes, DLA Secretary



DEAD LAKE ASSOCIATION

Annual Financial Report

INCOME & MEMBERSHIP COMPARISON					
JANUARY1 - JULY 20, 2022			JANUARY1 - JULY 19, 2023		
	<u>MEMBERS</u>	<u>AMOUNT</u>		<u>MEMBERS</u>	<u>AMOUNT</u>
	54	\$ 2,365.00		92	\$ 3,935.00
BANK SETTLEMENT COMPARISON					
		30-Jun-22			30-Jun-23
		\$ 33,596.51			\$ 33,515.75 \$ (80.76)
CURRENT BANK BALANCE					
		7/20/2022			7/19/2023
		\$ 31,820.95			\$ 33,844.55 \$ 2,023.60
INVESTMENTS					
		6/30/2022		6/30/2023	
GENERAL OPERATING		\$ 15,524.85		\$ 15,553.85	\$ 29.00
RAINY DAY RESERVE		\$ 45,476.83		\$ 48,123.97	\$ 2,647.14
BOARD DESIGNATED		\$ 93,640.16		\$ 106,192.97	\$ 12,552.81
DONOR DESIGNATED		\$ 28,724.85		\$ 33,755.83	\$ 5,030.98
TOTAL INVESTMENTS		\$ 183,366.69		\$ 203,626.62	\$ 20,259.93
		7/20/2022		7/19/2023	
GENERAL OPERATING		\$ 15,490.10		\$ 15,636.64	\$ 146.54
RAINY DAY RESERVE		\$ 45,968.82		\$ 48,699.87	\$ 2,731.05
BOARD DESIGNATED		\$ 96,109.35		\$ 108,281.73	\$ 12,172.38
DONOR DESIGNATED		\$ 29,891.34		\$ 34,561.20	\$ 4,669.86
TOTAL INVESTMENTS		\$ 187,459.61		\$ 207,179.44	\$ 19,719.83

DEAD LAKE ASSOCIATION EXPENSES

Date	Name	Description	Amount
01/04/2022	Carey C Lund	One Year Zoom Membership	(\$31.16)
01/14/2022	Postmaster	Annual PO Box Fee	(\$84.00)
03/18/2022	Carey C Lund	IONOS DLA.ORG web page	(\$14.00)
06/10/2022	East Otter Tail Deer Hunters Association	East Ottertail Deer Hunters Association	(\$250.00)
05/11/2022	Otter Tail County COLA	Water testing & membership	(\$1,165.00)
05/11/2022	The Cactus	Summer Fund Raiser 2021	(\$500.00)
06/28/2022	Country Financial	Liability Insurance	(\$227.00)
07/11/2022	University of Minnesota Foundation	Minnesota Aquatic Invasive Species Research	(\$2,000.00)
07/15/2022	Perham Printing	414 Newsletter Printing	(\$330.41)

Date	Name	Description	Amount
01/04/2023	Carey C Lund	USPS Annual PO Box Rental	(\$90.00)
01/05/2023	Smith & Sem, LTD	SMITH & SEM LTD ECHECK	(\$500.00)
01/06/2023	Cash	CK # 1856 Annual Meeting	(\$90.00)
04/23/2023	Otter Tail County COLA	Water testing & membership	(\$1,245.00)
04/24/2023	East OtterTail Deer Hunters	Lake Management Betterment Project	(\$250.00)
06/15/2023	Country Financial	Administrative Insurance	(\$227.00)
06/15/2023	Carey C Lund	Expense for GODADDY.COM 31.16Qu	(\$46.16)
06/17/2023	USPS	Returned Newsletters	(\$10.71)
06/30/2023	USPS	Returned Newsletters	(\$0.63)

Dead Lake Annual Report
August 5, 2023

This is a volunteer organization

Board membership, water sampling, putting out rock markers, wildlife surveys, outreach, working with regulatory agencies and fundraising is all done by volunteers. This report is done with an appreciation for the people that have given time, both past and present, to contribute to the health of the lake and the Dead Lake community.

The 9 members of the Dead Lake Board membership represents each bay in lake. Board members include:

	Committee
Don Janes: President	Liaison, Education
Ward Arntson: Vice President	Liaison, Environment
Craig Lund: Treasurer	Finance, Fundraiser
Terry Janes: Secretary	Finance, Planning
Donna Arntson	Newsletter, membership
Stephanie Johnson	Finance, Fundraiser
Jim Hatlevig	Fundraiser
Larry Ewer	Safety
Carolyn Reynolds	Shoreline Management

Board activities are also supported by past board members who provide input and assist with projects. Past board members Mike Herzog, Judy Herzog, Denny Trudell and Diane Lund have all made significant contribution to the planning and preparation of our fundraiser.

Our association faces ongoing and new conditions. Having a strong membership, water safety and quality are continuing challenges.

The presence of zebra mussels in our lake and the threat of more Aquatic Invasive Species (AIS) along with changes in governmental regulations and practices present new challenges. In response the association board is revamping our committees to adapt to these challenges. It is a work in progress that involves resources and support from the association board and volunteers. For example, to monitor the lake for AIS will require volunteers that can identify and help track where invasive species are as well as resources the association board can make available. Committee focus include:

Environmental focus includes factors related to water quality such as AIS, pollution, fish and wildlife, and water sampling.

Shoreline Management focuses on shoreline conservation and how development, shoreline restoration practices and plant-life affect the water quality in Dead Lake.

Safety includes having eyes on the lake and landings to identify threats to safety as well as making sure that water markers are in place to alert boaters.

Education includes informing, educating and training lake residents through media such as our newsletter, volunteer training, presentations, articles, news-flashes, annual report and distribution of material.

Membership directed activities include outreach, sending newsletters and inviting lake residents to join or volunteer.

Nominating activities aim to keep board membership full and representative of residents' interests and areas throughout Dead Lake.

Liaison includes connecting with other lake associations, the Otter Tail County COLA, state and local entities that can impact Dead Lake. Having a working relationship with key people within these agencies and knowing how they operate is critical. Our tasks are easier when we work together.

Finance, Fundraising and Planning assures that resources are available to conserve and protect the lake.

Some things that volunteers do!

Water sampling is done monthly May through September at 4 locations on Dead Lake. Samples are taken to RMB Laboratories in Detroit Lakes for analysis.

Water markers have been placed at 15 different locations throughout Dead Lake.

Fundraising for Dead Lake has been a creative venture that helps earn money to help cover the associations expenses. The August 5th fundraiser is our main event.

Survey of Loons on Dead Lake is done every year. This year 6 volunteers sited 34 adults, 3 juveniles and 2 older juveniles on Dead Lake. This is typical for Dead Lake.

Three Dead Lake Newsletters will be sent to lake residents this year. A lake resident survey is included in the latest Dead Lake

Newsletter. Your responses to the survey help the association know what concerns lake residents have and help in developing a lake management plan. Please respond!

Newsflashes are emailed to lake residents throughout the year. They keep residents informed of events related to Dead Lake.

Volunteers give their time even though they have busy lives. Much of the work they do is at their own initiative. We know that there are individuals who voluntarily do significant deeds that we either do not yet know about or inadvertently have overlooked. For that we apologize. Following is a sample of volunteers we recognize.

Water sampling

Jim Hatlevig
Denny Trudell
Roger Cullen

Rock Markers

Roger Cullen
Mark Seaton
Chad Van Watermulin

Fundraising

Jim Hatlevig
Diane Lund
Craig Lund
Stephanie Johnson
Denny Trudell
Carolyn Reynolds
Mike Herzog

Judy Herzog
Terry Janes
Don Janes
Millie Stang

Loon Survey

Jim Hatlevig
Bethany Hatlevig
Larry Ewer
Denny Trudell
Troy Rozeske
Don Janes

Jim Hatlevig has served on the Dead Lake Association Board for 12 years. He will be leaving the board this year. Jim and his family have been the creative force in developing and running our successful fundraisers. Jim has also done water sampling for as many years as he can remember. This last June he would have been seen on Denny Trudell's pontoon doing the loon survey. Thank you, Jim, for all that you do.

Zebra Mussels

The Minnesota DNR reported that Dead Lake was infested in 2019. To date mature zebra mussels have been found in Dead Lake on rock markers, on rocks in Indian Bay and on docks and lifts of every bay in Dead Lake. Human traffic and watercraft entering the lake are believed to be the most efficient carrier of zebra mussels to lakes.

Zebra mussels overwhelm native mussels by attaching to them and smothering them. This can result in a reduction of native mussels as a food source for some fish in the lake. Zebra mussels are filter feeders that can increase water clarity, make it possible for weed lines to grow deeper and reduce the availability of zooplankton for young fish.

It is difficult to know what effect zebra mussels will have on Dead Lake by comparing it to other infested lakes. Lakes vary in their capacity to withstand changing conditions because they differ in size, shape, depth, productivity and fish community consumption. What we do know is that AIS infestation is possible and that a second infestation, such as spiny waterflea, would be much worse.

Here are some of the problems that occur from zebra mussels.

1. Clog irrigation and other pipes;
2. Attach to boat motors and hulls, reducing performance and efficiency;
3. Attach to rocks, swim rafts and ladders where swimmers can cut their feet on mussel shells;
4. Attach to and smother native mussels;
5. Eat tiny food particles they filter out of the water, which can reduce available food for larval fish and other animals;

6. Cause more aquatic vegetation to grow as a result of increased water clarity.

The treatment methods for eradicating or controlling zebra mussels, to date, are considered experimental. The Minnesota Aquatic Invasive Species Research Center (MAISRC) continues to do good work and there are some experimental treatments that show promise.

In order to manage any AIS, it is important to measure it. MAISRC and the Minnesota DNR has training available for individuals who are interested in learning how to detect, report and prevent the spread of AIS. Anyone interested in volunteering and AIS training should contact Ward Arntson.

The Dead Lake Association will continue to work with the Coalition of Lake Associations in Otter Tail County, the watershed district, the Soil and Water District, Otter Tail County and the Minnesota DNR. Our shared efforts will strengthen our response to the threat of current and future AIS infestation.

As residents and individuals who enjoy Dead Lake, here are some things that you can do:

- Monitor and learn about AIS;
- Volunteer to help with water sampling or AIS detecting;
- Participate in wildlife surveys;
- Remove waste from public access and beach areas;
- Share how you participate with others;
- Enjoy and appreciate the lake as the valuable and unique resource that it is.

Water quality testing remains a priority for the Dead Lake Association. We participate in the Otter Tail COLA water monitoring program along with many other lakes. The objective for water testing is to compare the Trophic State Index (TSI) of Dead Lake to itself over a ten-year time period. The TSI comparisons for Dead Lake means that this is a mesotrophic (moderately fertile) lake. The balance between phosphorous, chlorophyll-A and lake clarity is important to maintain a healthy lake. According to the most recent water quality report from RMB Laboratories in Detroit Lakes, no significant trend is noted for either phosphorous or chlorophyll-A. The water clarity and trophic state index are declining (negative connotation) with 80% confidence.

The 10 year report is attached.

The trend analysis is for the primary north bay site only.

The trend shows Dead Lake continues to be a moderately fertile lake.



Otter Tail Coalition of Lake Associations

otccola2@gmail.com

Water Quality Analysis Reports 2022

Dead 56-0383-00

10-Year Trend Analysis

Lake / Site	Year	Phosphorus Ave	Chlorophyll a Ave	Secchi Ft	TSI Ave
Dead 56-0383-00 202	2013	24.2	6.4	13.9	45.6
	2014	20.8	5.8	13.2	44.8
	2015	25.0	7.8	11.8	47.6
	2016	28.4	8.8	12.1	46.8
	2017	24.6	7.3	11.9	46.5
	2018	24.4	8.2	11.4	47.8
	2019	25.4	5.1	12.0	45.8
	2020	22.4	7.2	11.1	46.2
	2021	23.4	6.5	13.8	44.6
	2022	19.3	11.2	12.0	44.3
Dead 56-0383-00 202 Total		23.9	7.4	12.3	46.0

Lake / Site	Year	Phosphorus Ave	Chlorophyll a Ave	Secchi Ft	TSI Ave
Dead 56-0383-00 205	2013	22.2	7.2	7.9	48.4
	2014	21.2	10.6	9.4	49.0
	2015	26.8	8.0	8.9	49.0
	2016	23.3	7.5	9.1	47.5
	2017	26.2	8.0	9.8	49.3
	2018	19.2	6.1	9.2	46.8
	2019	18.2	6.7	9.6	46.0
	2020	22.4	10.9	8.4	50.0
	2021	22.2	6.6	8.6	47.4
	2022	22.5	10.9	7.6	47.6
Dead 56-0383-00 205 Total		22.3	8.3	8.8	48.0

Lake / Site	Year	Phosphorus Ave	Chlorophyll a Ave	Secchi Ft	TSI Ave
Dead 56-0383-00 212	2013	16.6	4.8	10.3	44.0
	2014	22.2	7.6	8.4	48.2
	2015	21.2	7.4	8.3	48.4
	2016	19.4	4.0	9.3	45.2
	2017	21.4	4.6	9.4	46.2
	2018	21.6	7.9	8.3	48.6
	2019	21.8	8.3	7.7	49.2
	2020	19.4	6.8	9.3	47.3
	2021	16.4	5.2	10.3	44.6
	2022	19.7	7.6	9.3	47.2
Dead 56-0383-00 212 Total		20.0	6.4	9.1	46.9

Lake / Site	Year	Phosphorus Ave	Chlorophyll a Ave	Secchi Ft	TSI Ave
Dead 56-0383-00 211	2013	19.6	5.2	9.4	45.8
	2014	26.2	15.3	6.6	54.5
	2015	28.0	7.4	8.3	49.8
	2016	25.6	5.0	7.0	48.5
	2017	23.4	5.0	6.7	48.2
	2018	30.4	10.1	5.2	52.6
	2019	22.2	6.1	6.4	49.0
	2020	21.6	4.7	8.0	47.4
	2021	22.4	5.4	8.7	46.6
	2022	27.1	8.0	5.6	48.8
Dead 56-0383-00 211 Total		24.7	7.1	7.2	49.0

