

**MUSKELLUNGE LAKE  
LAKE IMPROVEMENT BOARD MEETING  
July 21, 2022**

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A meeting of the Muskellunge Lake, Lake Improvement Board was held at the Montcalm County Drain Commission, 211 W. Main Street, Stanton, Michigan on the 21<sup>st</sup> day of July 2022 at 3:30 P.M.

The meeting was called to order by Bob at 3:31p.m.

PRESENT: Bob Pickel – Chairman  
Harvey Stark – Abutting Property Owner’s Representative  
Todd Sattler – Secretary, Montcalm County Drain Commissioner

ABSENT: Sandy Tiffany – Maple Valley Township Representative  
Kathy Bresnahan – Board of Commissioner’s Representative

ALSO

PRESENT: Rick Buteyn – Progressive A&E  
Ashley Wrobel – Progressive A&E  
Anne Gaylord, Montcalm County Drain Commission  
Heather Williams – Montcalm County Drain Commissioner  
Estelle Stark - Resident

A motion was made by Todd and seconded by Bob to approve the agenda. Motion carried.

A motion was made by Todd and seconded by Harvey to approve the minutes from August 13, 2020, as presented. Motion carried.

Public Comment

No public comment.

Weed Program Update

Rick provided a treatment update to the board. Two treatments have been completed so far this year. The budget was spent on two treatments this year, but surplus from prior year’s balances will cover the overages in costs. Rick advised that the ProCellacore is doing a good job at controlling and keeping the weeds down. Harvey asked if the lake was seeing multi-year benefits from the ProCellacore as was promised by the manufacturer when they switched to this chemical. Rick stated that the manufacturer originally offered a three-year guarantee but have since stopped since the that has proven to be untrue. Rick is happy with how well it is working compared to the straight Diquat. The lake should only need one more algae touch-up this season.

Financial Update

Todd provided a financial update to the board including a current balance of \$42k. We are still waiting on an invoice for 12k for an algae treatment and an invoice for \$1,625 for the 4<sup>th</sup> quarter lake consultant fee.

Public Hearing

Rick presented a budget of \$30k to the board. Harvey asked why the budget went from 28k to 30k and how Rick got those numbers. Rick advised that the budget was increased to keep up with rising costs all around and that he came to this number from experience with the applicators. Bob added that he believes that the budget should be increased more to allow for a larger contingency. Rick advised that increasing the budget to 30k is already a 20% increase. Harvey asked about decreasing the budget in future years if too much of a balance is built up. Todd and Rick advised that the budget is set at the beginning of a five-year program and can be decreased in later years, if needed. Harvey asked if the board is happy with the work performed by PLM. Rick stated that he is very happy with their work. They will be increasing chemical prices by 15% this year. The board discussed increasing the budget by an additional 2k for more of a contingency. This would bring the yearly budget to \$32,200.00, which is a 29% increase from the prior budget.

A motion was made by Harvey and seconded by Todd to increase the yearly budget to \$32,200.00. Motion carried

There being no further business to come before the Lake Board, a motion was made by Todd and seconded by Harvey to adjourn the meeting at 4:16 p.m. Motion carried.



Todd Sattler, Secretary  
Muskellunge Lake, Lake Board

State of Michigan     }  
                                      } ss:  
County of Montcalm   }

I hereby certify that the foregoing is a true and complete copy of the minutes of a meeting of the Muskellunge Lake, Lake Improvement Board, Montcalm County, Michigan held on July 21, 2022, and that said minutes are on file in the office of the Montcalm County Drain Commissioner and are posted on the website at [www.montcalm.us](http://www.montcalm.us) and are available to the public.

I further certify that notice of the meeting was posted at least 18 hours before the meeting at the office of the Montcalm County Drain Commissioner, which is the principal office of the Muskellunge Lake, Lake Improvement Board.



Todd R. Sattler  
Montcalm County Drain Commissioner

**MUSKELLUNGE LAKE  
LAKE IMPROVEMENT BOARD**

**MEETING**

**July 21, 2022**

**3:30 P.M.**

**MONTCALM COUNTY DRAIN COMMISSION**

211 W. Main Street  
Stanton, Michigan

**AGENDA**

1. Call to Order
2. Approve Agenda
3. Approve Minutes  
May 3, 2022
4. Weed Program Update
5. Financial Update
6. Public Hearing
7. Public Comment
8. Adjourn

**If you cannot attend, please call the office at 989- 831-7322 at least two days prior to the meeting.**

**Board Members:**

Todd Sattler, Montcalm County Drain Commissioner  
Harvey Stark, Abutting Property Owners Representative  
Sandy Tiffany, Maple Valley Township Representative  
Kathy Bresnahan, Board of Commissioners Representative  
Bob Pickel, Chairperson



# Muskellunge Lake Finance Sheet 2018 - 2022 (84020)

Thursday, July 21, 2022

Date	Vendor	Description	Expenses	Revenue	Date
10/1/2017		Beginning Balance			\$ 12,322.59
2/1/2018	Progressive AE	Invoice # 166025 4th Quarter Lake Consultants	\$ 1,875.00		\$ 10,447.59
4/12/2018	State of Michigan	2018 Permit Application Fee	\$ 800.00		\$ 9,647.59
4/26/2018	Progressive AE	1st Quarter Lake Consultant	\$ 1,875.00		\$ 7,772.59
5/1/2018	Montcalm County Treasurer	2017 Tax Collection		\$ 25,100.00	\$ 32,872.59
7/19/2018	PLM Lake Management	Algae, Weed & Clipper Treatment	\$ 11,556.95		\$ 21,315.64
7/19/2018	Progressive AE	2nd Quarter Lake Consultant	\$ 1,875.00		\$ 19,440.64
8/23/2018	Montcalm County Treasurer	2018 Annual Administration - Lakes	\$ 1,000.00		\$ 18,440.64
8/23/2018	PLM Lake & Land Management	Algae, Weed & Clipper Treatments 7/19	\$ 2,218.94		\$ 16,221.70
10/4/2018	PLM Lake & Land Management	Weed Treatment 8/23	\$ 1,595.00		\$ 14,626.70
10/18/2018	Progressive AE	4th Quarter Lake Consulting Fee	\$ 1,875.00		\$ 12,751.70
11/15/2018	PLM Lake & Land Management	2018 Permit Application Fee	\$ 800.00		\$ 11,951.70
2/21/2019	PLM Lake & Land Management	2019 DEQ Permit Application Fee	\$ 800.00		\$ 11,151.70
2/28/2019	Progressive AE	1st Quarter Lake Consultant	\$ 1,875.00		\$ 9,276.70
4/18/2019	Progressive AE	2nd Quarter Lake Consulting Fee	\$ 1,875.00		\$ 7,401.70
5/30/2019	Montcalm County Treasurer	2018 Tax Collection		\$ 25,100.00	\$ 32,501.70
6/27/2019	PLM Lake & Land Management	Invoice #194895 Weed Treatment	\$ 798.86		\$ 31,702.84
7/11/2019	Progressive AE	3rd Quarter Lake Consulting Fee	\$ 1,875.00		\$ 29,827.84
7/25/2019	PLM Lake & Land Management	Invoice #195638 Weed Treatment	\$ 10,569.15		\$ 19,258.69
10/3/2019	PLM Lake & Land Management	Innvice #196886 Algae & Milfoil treatment	\$ 2,007.53		\$ 17,251.16
10/10/2019	Progressive AE	4th Quarter Lake Consulting Fee	\$ 1,875.00		\$ 15,376.16
1/17/2020	PLM Lake & Land Management	Reimbursement For Permit Application Fee	\$ 800.00		\$ 14,576.16
1/6/2020	Progressive AE	1st Quarter Lake Consultant	\$ 1,875.00		\$ 12,701.16
3/30/2020	Progressive AE	2nd Quarter Lake Consulting Fee	\$ 1,875.00		\$ 10,826.16
5/28/2020	PLM Lake & Land Management	Weed & Algae Treatment	\$ 2,978.96		\$ 7,847.20
5/31/2020	Montcalm County Treasurer	2019 Tax Collection		\$ 25,100.00	\$ 32,947.20
6/24/2020	PLM Lake & Land Management	Weed & Algae Treatment	\$ 9,562.94		\$ 23,384.26
7/2/2020	PLM Lake & Land Management	3rd Quarter Lake Consulting Fee	\$ 1,875.00		\$ 21,509.26
7/20/2020	PLM Lake & Land Management	Weed & Algae Treatment	\$ 452.21		\$ 21,057.05
8/27/2020	PLM Lake & Land Management	Weed Treatment	\$ 2,173.84		\$ 18,883.21
8/28/2020	Progressive AE	4th Quarter Lake Consulting Fee	\$ 1,875.00		\$ 17,008.21
9/11/2020	Spicer Group	Accounts Support	\$ 50.00		\$ 16,958.21
9/30/2020	Montcalm County Treasurer	Allocations	\$ 348.36		\$ 16,609.85
1/19/2021	Progressive AE	1st Quarter Lake Consultant	\$ 1,875.00		\$ 14,734.85
2/22/2021	State of Michigan	2021 Permit Fee	\$ 800.00		\$ 13,934.85
3/31/2021	Muskellunge Lake	Interest		\$ 67.61	\$ 14,002.46
4/8/2021	Progressive AE	2nd Quarter Lake Consulting Fee	\$ 1,875.00		\$ 12,127.46
4/30/2021	Montcalm County	2020 Delinquent Settlement		\$ 1,176.17	\$ 13,303.63
5/1/2021	Montcalm County	2020 Collected Settlement		\$ 23,923.83	\$ 37,227.46
6/24/2021	PLM Lake & Land Management	06/02/2021 Weed Treatment	\$ 5,087.10		\$ 32,140.36
7/6/2021	Progressive AE	3rd Quarter Lake Consulting Fee	\$ 1,875.00		\$ 30,265.36
7/27/2021	PLM Lake & Land Management	06/22/2021 Algae & Weed Treatment	\$ 1,659.81		\$ 28,605.55
8/27/2021	PLM Lake & Land Management	07/29/2021 Algae & Weed Treatment	\$ 2,836.98		\$ 25,768.57
9/2/2021	PLM Lake & Land Management	08/24/2021 Algae & Weed Treatment	\$ 285.37		\$ 25,483.20
10/7/2021	Progressive AE	4th Quarter Lake Consulting Fee	\$ 1,875.00		\$ 23,608.20
3/3/2022	PLM Lake & Land Management	2022 Permit Application Fee	\$ 875.00		\$ 22,733.20
3/24/2022	Progressive AE	1st Quarter Lake Consultant	\$ 1,875.00		\$ 20,858.20
4/7/2022	Progressive AE	2nd Quarter Lake Consultant	\$ 1,875.00		\$ 18,983.20
5/23/2022	Montcalm County	2021 Collected Settlement		\$ 23,207.84	\$ 42,191.04
5/23/2022	Montcalm County	2021 Delinquent Settlement		\$ 1,892.16	\$ 44,083.20
7/7/2022	Spicer Group	Accounts Support	\$ 32.80		\$ 44,050.40
7/7/2022	Spicer Group	Accounts Support	\$ 41.75		\$ 44,008.65
7/14/2022	Progressive AE	3rd Quarter Lake Consulting Fee	\$ 1,875.00		\$ 42,133.65
		Remaining Balance			\$ 42,133.65



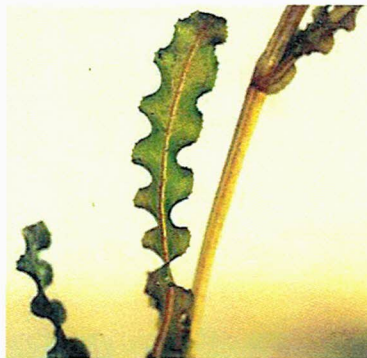
**MUSKELLUNGE LAKE IMPROVEMENT PROGRAM  
PROPOSED ANNUAL BUDGET  
2023 – 2027**

<b>Improvement</b>	<b>Annual Cost</b>
Aquatic Plant Control	\$20,000
Lake Management Consulting	\$8,000
Administration and Contingency	\$2,000
Total Annual Cost	\$30,000

The Muskellunge Lake improvement program will include the select use of aquatic herbicides. The program will focus primarily on invasive species such as Eurasian milfoil, curly-leaf pondweed and starry stonewort.



Eurasian milfoil



Curly-leaf pondweed



Starry stonewort

Lake management services would be provided by the Muskellunge Lake Improvement Board's consultant. The consultant would be responsible for preparing contract documents for the plant control program, conducting GPS-guided surveys of the lake to determine the scope of work to be performed by the plant control contractors, and conducting follow-up surveys to evaluate contractor performance. The consultant would report to the lake board and maintain a written record of the timing, scope, and cost of plant control activities. Consultant administrative services would include periodic attendance at meetings, the review and processing of contractor invoices, and assistance with public hearing proceedings.

Project administration and contingency would be used for lake board administrative expenses, unforeseen project-related expenses, and any direct costs incurred by the Muskellunge Lake Improvement Board.

**MUSKELLUNGE LAKE  
MAPLE VALLEY TOWNSHIP  
NUISANCE AQUATIC PLANT CONTROL PROGRAM  
PROPOSED ANNUAL BUDGET 2023 - 2027  
(ASSESSMENT ROLL 2022 - 2026)**

<b>IMPROVEMENT</b>	<b>Annual Cost</b>
Nuisance Aquatic Plant Control	\$20,000
Plant Control Coordination/Field Evaluations	\$ 8,000
Administration and Contingency	<u>\$ 2,000</u>
Total Annual Budget	\$30,000

The primary focus of the plant control program in Muskellunge Lake is to prevent the spread of invasive, exotic plant species with the select use of herbicides. The amount of herbicide use in any given year will depend on the type and distribution of aquatic plants in Muskellunge Lake and Department of Environmental Quality permit conditions.

Plant control activities are proposed to be coordinated under the direction of the lake board's environmental consultant. The consultant would be responsible for preparing bid documents and/or contract extensions for the plant control program, assisting the lake board with the selection of the plant control contractors, conducting GPS-guided surveys of the lake to determine the scope of work to be performed by plant control contractors, and performing follow-up inspections to ensure work is performed in a satisfactory manner. The consultant would report to the lake board regarding the performance of the plant control contractors and would make recommendations to the lake board regarding payment to the contractors.

Project administration would include costs related to legal notices and hearing proceedings, Drain Office Administration, postage, copies, mailings, and meetings. In accordance with Part 309 of the Natural Resources and Environmental Protection Act, Act 451 of 1994, a lake board may add not less than 10% or more than 15% of the total project cost for contingent expenses.

### **BENEFIT FACTORS**

The Special Assessment District for Muskellunge Lake includes all properties which border the lake and back lots which have deeded or dedicated lake access. Special assessments for the project are proposed to be apportioned in the following manner:

<u>Use Factors</u>	<u>Units</u>	<u>Annual Amount</u>
Lakefront lots	1	\$250.53
Back lots with dedicated/deeded access	.5	\$125.26
Trailer condominium site	.5 per unit	\$125.26
Back lots with lagoon frontage	.25	\$ 62.63
Back lots with 5 foot public walkway access	.25	\$ 62.63

Note: Contiguous lots in common ownership are proposed to be assessed as a single parcel provided only one dwelling exists on the parcel. Single parcels with more than one dwelling will be assessed per dwelling.

# Project Work Journal

## Muskellunge Lake

2022

Beginning Balance: \$16,000.00

Date	Type	Results
1/3/2022	Permit	2022 Permit Authorization
Application Date	Type	Target Species
1/11/2022	Permit Fee	Qty
		Dose Rate
		Cost
		Remaining Balance
		1.00 each
		\$875.00
		\$15,125.00
		Invoice 3004919
		Total \$875.00 \$15,125.00
5/23/2022	Survey	Plentiful milfoil and curly, some algae spots. Water: 65 degrees
Treatment Date	Type	Target Species
6/2/2022	Flumioxazin and contacts	Curly-leaf Pondweed
		Qty
		Dose Rate
		Cost
		Remaining Balance
		5.75 acre(s)
		100.00 ppb
		\$2,443.75
		\$12,681.25
6/2/2022	Diquat dibromide @ 1 gal/acre	Curly-leaf Pondweed
		Qty
		Dose Rate
		Cost
		Remaining Balance
		1.50 acre(s)
		\$270.00
		\$12,411.25
6/2/2022	Diquat dibromide @ 1 gal/acre + 4 PDU	Curly-leaf Pondweed
	ProcellaCOR	Qty
		Dose Rate
		Cost
		Remaining Balance
		2.00 acre(s)
		\$1,200.00
		\$11,211.25
6/2/2022	Algae control (chelated copper only)	Eurasian Milfoil
		Qty
		Dose Rate
		Cost
		Remaining Balance
		1.00 acre(s)
		\$110.00
		\$11,101.25
6/2/2022	Diquat dibromide @ 1 gal/acre + 6 PDU	Curly-leaf Pondweed
	ProcellaCOR	Qty
		Dose Rate
		Cost
		Remaining Balance
		13.00 acre(s)
		\$10,790.00
		\$311.25
		Invoice 3005691
		Total \$14,813.75 \$311.25
6/28/2022	Survey	LJA Survey. Found algae along most of the developed shoreline. Water: 73 degrees.
Treatment Date	Type	Target Species
6/30/2022	Algae control (chelated copper only)	Filamentous or Planktonic Algae
		Qty
		Dose Rate
		Cost
		Remaining Balance
		10.98 acre(s)
		\$1,207.80
		(\$896.55)
		Invoice 3006285
		Total \$1,207.80 (\$896.55)



## Treatment

- [illegible]

the applicator shall make adjustments, if needed, to comply with EGLE permit requirements.