

**MUSKELLUNGE LAKE  
LAKE IMPROVEMENT BOARD  
MEETING**

**October 1, 2025**

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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 1st day of October 2025 at 3:00 P.M.

The meeting was called to order by Bob at 3:02 p.m.

PRESENT: Bob Pickel – Chairperson  
Randy Mencarelli – Abutting Property Owner’s Representative  
Todd Sattler – Treasurer/Drain Commissioner

ABSENT: Sandy Tiffany – Maple Valley Township Representative  
Pat Carr – Board of Commissioner’s Representative

ALSO

PRESENT: Anne Gaylord – MCDC

A motion was made by Todd and seconded by Randy to approve the agenda as presented. Motion carried.

A motion was made by Todd and seconded by Randy to approve the minutes from July 23, 2025, as presented. Motion carried.

Public Comment

No public comment.

Treatment Update

Luke provided treatment maps, journals, and a season re-cap for the meeting. Please see attached. Bob and Luke discussed other options for treating the purple loosestrife. They are going to try to complete a late season treatment to see if it will have systemic effects for the next season. Wild Celery is causing navigational issues. Todd advised that there really is no good chemical to treat the celery and believes manual harvesting may be the best option. Per Luke’s notes, Todd advised that there is \$6,500 remaining in the treatment budget.

Financial Update

Todd provided a financial update to the board including a current balance of \$57,127.90.

Other Business

Todd advised the board that there were no changes to the assessment roll for 2025 and all residents will be charged the same as the previous year. He explained the benefit factors and public hearing process and advised that he would like to update the benefit factors to reflect legal rights to the lake during the 2027 public hearing.

There being no further business to come before the Lake Board, a motion was made by Randy and seconded by Todd to adjourn the meeting at 3:37 p.m. Motion carried.

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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 October 1, 2025, and that said minutes are on file in the office of the Montcalm County Drain Commissioner and posted on the county website at [montcalm.us](http://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.

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Todd Sattler  
Montcalm County Drain Commissioner

**MUSKELLUNGE LAKE  
LAKE IMPROVEMENT BOARD  
MEETING**

**October 1, 2025  
3:00 P.M.**

**MONTCALM COUNTY DRAIN COMMISSION**  
211 W. Main Street  
Stanton, Michigan

**AGENDA**

- Call to Order
- Approval of Agenda
- Approval of Minutes
  - July 23, 2025
- Public Comment
- Treatment Program
- Financial Update
- Other Business
- Public Comment
- 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  
Randy Mencarelli, Abutting Property Owners Representative  
Sandy Tiffany, Maple Valley Township Representative  
Pat Carr, Board of Commissioners Representative  
Bob Pickel, Chairperson

## Project Work Journal

### Muskellunge Lake

2025

Beginning Balance: \$22,000.00

Date	Type	Results				
1/13/2025	Permit	2025 Permit Authorization				
Application Date	Type	Target Species	Quantity	Dose Rate	Cost	Remaining Balance
1/14/2025	Permit Fee		1.00 each		\$875.00	\$21,125.00
<b>Invoice 3015852 Total</b>					<b>\$875.00</b>	<b>\$21,125.00</b>

Survey Date	Type	Results				
5/20/2025	Survey	Survey by: LJA, GMK. Water: 58 degrees at surface. Notes: Found considerable curly-leaf pondweed growth at the north end of the lake. Milfoil growth was less widespread, but mixed in with the curly-leaf. Found one area of milfoil growth at the south end of the lake.				
Treatment Date	Type	Target Species	Quantity	Dose Rate	Cost	Remaining Balance
5/27/2025	Flumioxazin and contacts	Curly-leaf Pondweed	20.50 acre(s)	100.00 ppb	\$8,712.50	\$12,412.50
		Eurasian Milfoil			\$198.75	\$12,213.75
5/27/2025	Diquat dibromide @ 1 gal/acre + 6 PDU ProcellaCOR	Eurasian Milfoil	0.25 acre(s)		\$8,911.25	\$12,213.75
<b>Invoice 3016738 Total</b>					<b>\$8,911.25</b>	<b>\$12,213.75</b>

Survey Date	Type	Results				
6/24/2025	Survey	Survey by: LJA, GMK. Water: 85 degree at surface. Notes: Treatment worked well. HAB in southern portion of lake. Marked up wild celery areas for treatment. One small patch of milfoil.				
Treatment Date	Type	Target Species	Quantity	Dose Rate	Cost	Remaining Balance
6/26/2025	Chelated copper complex liquid	Wild Celery	1.25 acre(s)	9.00	\$562.50	\$11,651.25
6/26/2025	Algae control (chelated copper only)	Filamentous or Planktonic Algae	1.75 acre(s)		\$192.50	\$11,458.75
6/26/2025	Diquat dibromide @ 1 gal/acre + 6 PDU ProcellaCOR	Eurasian Milfoil	0.25 acre(s)		\$198.75	\$11,260.00
<b>Invoice 3017553 Total</b>					<b>\$953.75</b>	<b>\$11,260.00</b>



Project Work Journal  
Muskellunge Lake

2025

Beginning Balance: \$22,000.00

Survey Date		Type	Results			
7/29/2025		Survey	Survey by: LJA, GMK. Water temperature: 85 degrees at surface. Notes: Found purple loosestrife, wild celery, and milfoil.			
Treatment Date	Type	Target Species	Quantity	Dose Rate	Cost	Remaining Balance
8/5/2025	Chelated copper complex liquid	Wild Celery	3.75 acre(s)	9.00	\$1,687.50	\$9,572.50
8/5/2025	Loosestrife control		1.00 lump sum		\$1,000.00	\$8,572.50
8/5/2025	Triclopyr liquid		4.00 acre(s)	4.00 gallons/acre	\$1,960.60	\$6,611.90
8/5/2025	Diquat dibromide @ 2 gal/acre	Eurasian Milfoil	0.75 acre(s)		\$165.00	\$6,446.90
Invoice 3018469 Total					\$4,813.10	\$6,446.90

Survey Date	Type	Results
9/3/2025	Survey	Survey by: LJA. Water temp: 72 degrees at surface. Notes: Milfoil treatment worked well. Wild celery, despite treatment, flowered in most areas. Purple loosestrife still present around the lake, though in less density than during previous survey. No further treatments recommended as we are beyond the optimal treatment window for loosestrife.

Total Invoiced: \$15,553.10  
Remaining Balance: \$6,446.90

# MUSKELLUNGE LAKE

## 2025 PLANT CONTROL SUMMARY

Luke Aaron - Progressive Companies

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A summary of the plant control efforts/observations on Muskellunge Lake in 2025 is as follows:


- The first treatment in May targeting milfoil and curly-leaf pondweed using contact herbicides was very successful. Upon inspection in June we noted all the treated plants had fallen and the fishery looked notably abundant.
  - At this time, treatment of wild celery was proposed in select areas along the developed shoreline - to be treated before the 4<sup>th</sup> of July.
  - Algae identified as potentially harmful was also prescribed treatment at this time.
- During the July survey, areas of purple loosestrife were marked for treatment along with wild celery, and additional milfoil areas (new and re-growth).
- Upon our return in early September it was noted that more loosestrife had grown in around much of the lake that was not present during the July survey, though it was too late to conduct a second treatment.
  - The timing of loosestrife surveys/treatments can be difficult because it does not all bloom at once, and the exact window for peak growth changes each year based on weather conditions.
  - Bob and I discussed timing the surveys next year so that, ideally, there are two surveys within the purple loosestrife bloom. We will do our best to accommodate this request in order to obtain better control over this plant.
  - We have received some resident questions about the duration of the loosestrife control effort. Note that the lake board is only able to address the loosestrife near the shoreline of the lake with lake board funds. Please also note that this effort will be ongoing and will likely continue indefinitely as loosestrife produces millions of seeds each year and it is assumed that there is a large seed bank within the sediment from prior years. Despite annual treatment efforts and the systemic treatment of existing plants, new ones will likely continue to sprout each year.
- Despite two treatments in some areas, the wild celery did not go down and, in most cases, still flowered. This is what we anticipated, as these treatments are often unsuccessful. The strategy next year will be to target it as soon as possible, where permitted in hopes of stunting it's growth, and then re-treating a second time.
  - Only two celery treatments are permitted per season.
  - Native plant treatments are limited to areas within 100' of a developed shoreline and in less than 5' of water.
- We ended the season with a plant control budget surplus of \$6,446.90.




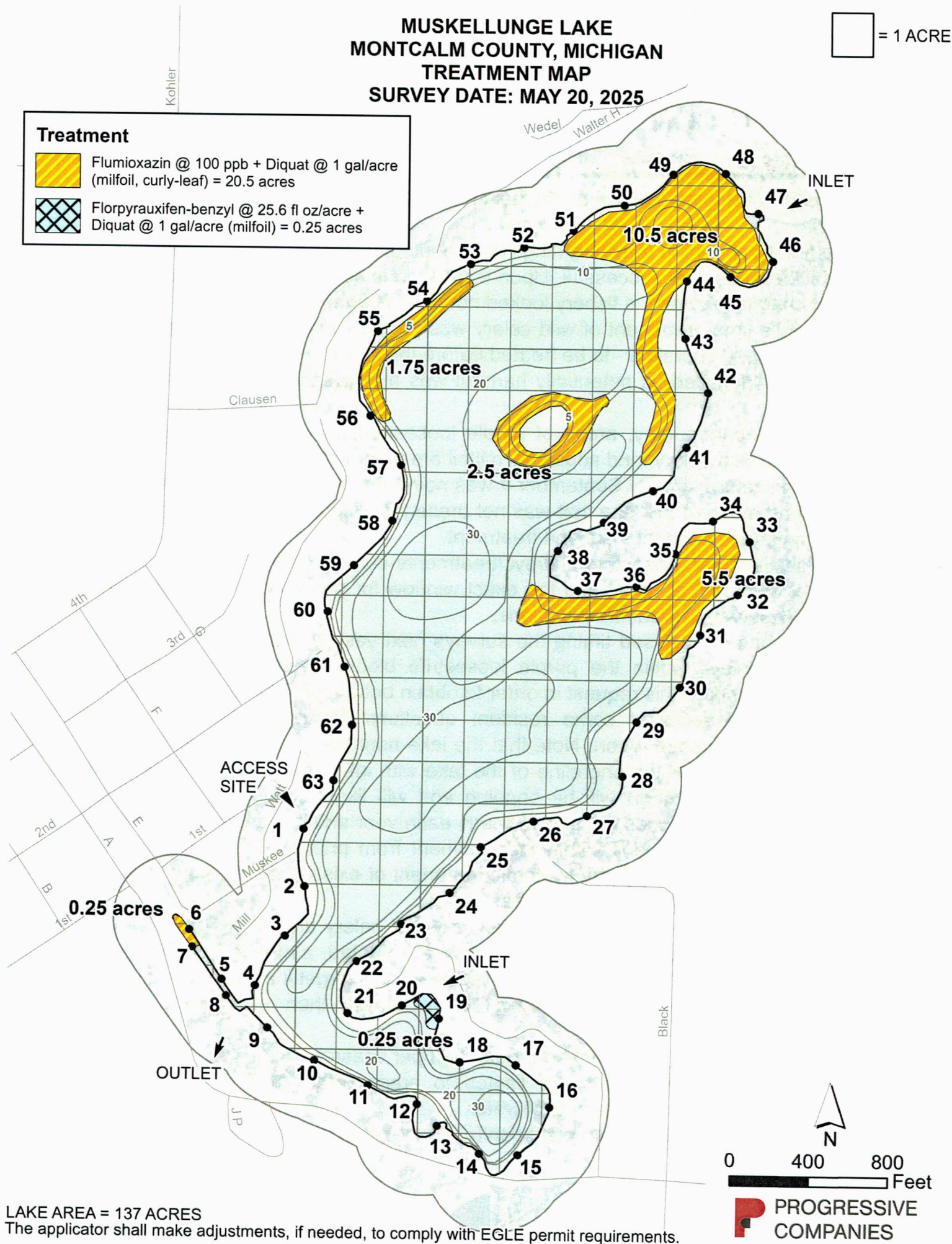
# MUSKELLUNGE LAKE MONTCALM COUNTY, MICHIGAN TREATMENT MAP SURVEY DATE: MAY 20, 2025

□ = 1 ACRE

## Treatment

 Flumioxazin @ 100 ppb + Diquat @ 1 gal/acre  
(milfoil, curly-leaf) = 20.5 acres

 Florpyrauxifen-benzyl @ 25.6 fl oz/acre +  
Diquat @ 1 gal/acre (milfoil) = 0.25 acres






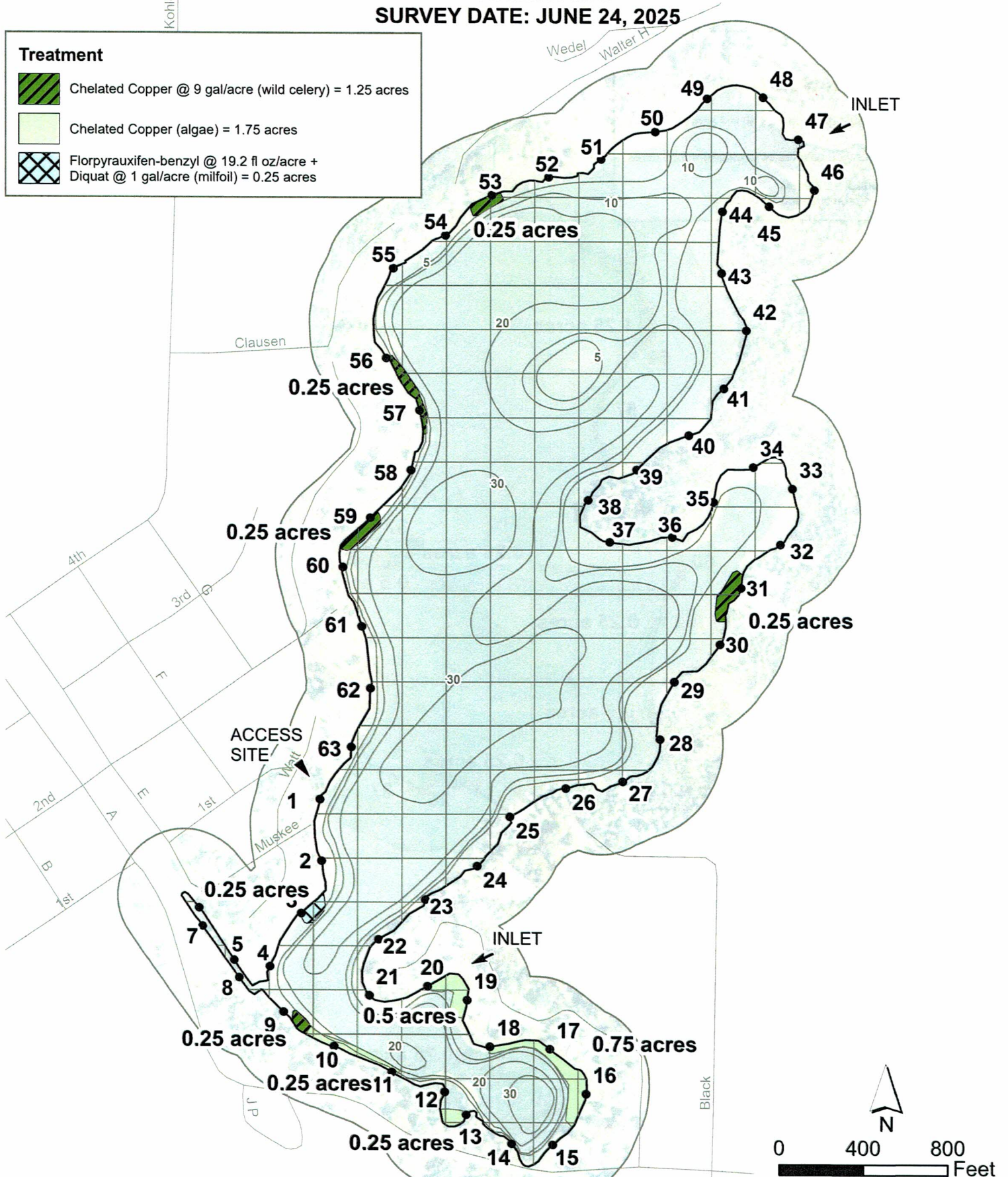


# MUSKELLUNGE LAKE MONTCALM COUNTY, MICHIGAN TREATMENT MAP SURVEY DATE: JUNE 24, 2025

□ = 1 ACRE

## Treatment


-  Chelated Copper @ 9 gal/acre (wild celery) = 1.25 acres
-  Chelated Copper (algae) = 1.75 acres
-  Florpyrauxifen-benzyl @ 19.2 fl oz/acre +  
Diquat @ 1 gal/acre (milfoil) = 0.25 acres







LAKE AREA = 137 ACRES  
The applicator shall make adjustments, if needed, to comply with EGLE permit requirements.

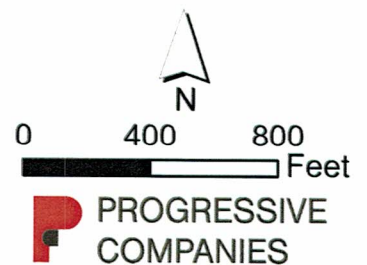
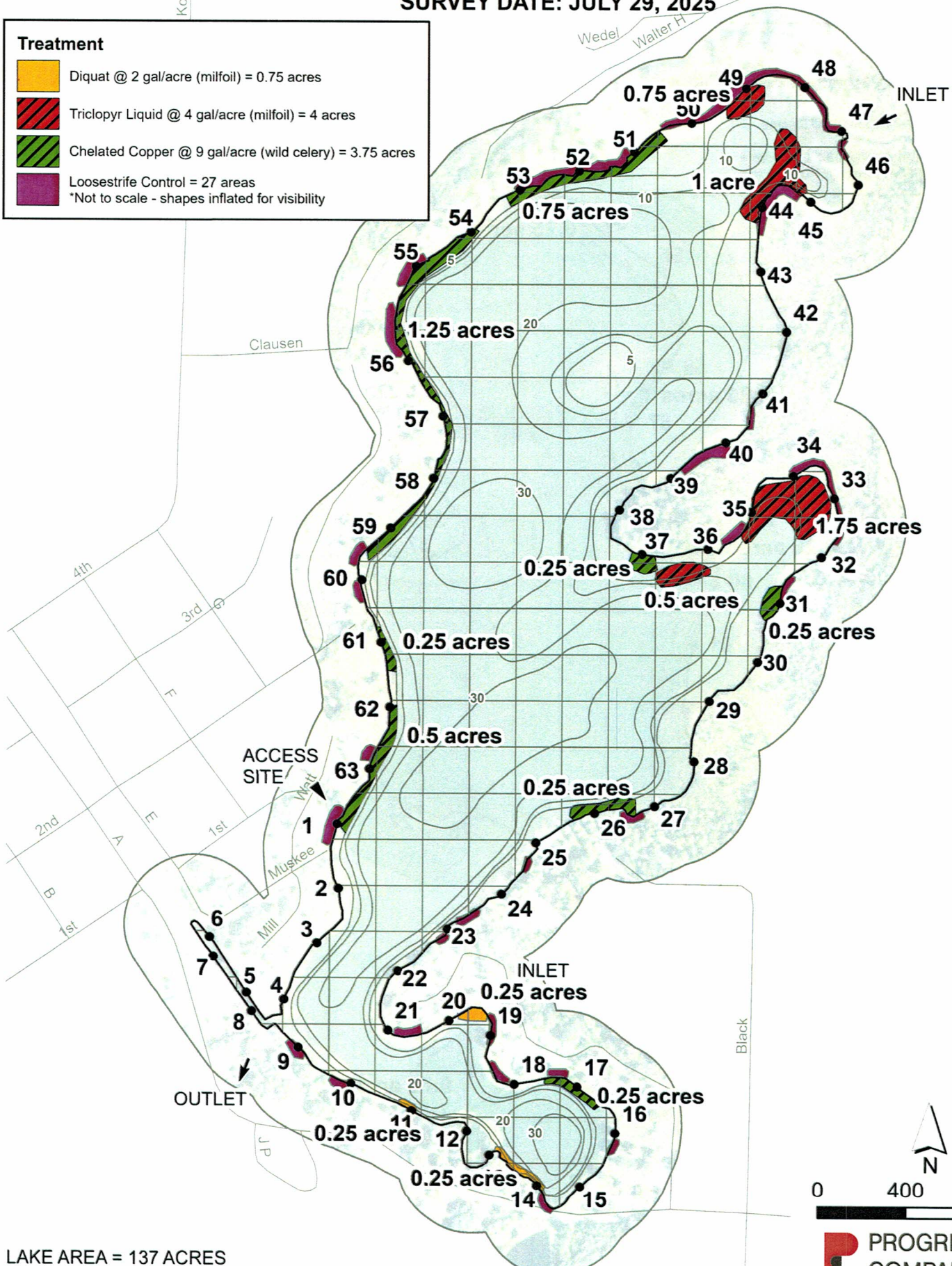


# MUSKELLUNGE LAKE MONTCALM COUNTY, MICHIGAN TREATMENT MAP SURVEY DATE: JULY 29, 2025

 = 1 ACRE

## Treatment

-  Diquat @ 2 gal/acre (milfoil) = 0.75 acres
-  Triclopyr Liquid @ 4 gal/acre (milfoil) = 4 acres
-  Chelated Copper @ 9 gal/acre (wild celery) = 3.75 acres
-  Loosestrife Control = 27 areas
- \*Not to scale - shapes inflated for visibility



LAKE AREA = 137 ACRES  
The applicator shall make adjustments, if needed, to comply with EGLE permit requirements.



**Muskellunge Lake Finance Sheet 2023 - 2027 (84020)**

Wednesday, October 1, 2025

Date	Vendor	Description	Check	Expenses	Revenue	Date
10/1/2022		Beginning Balance				\$ 24,946.62
10/20/2022	Progressive Architects Engineers PL	4th Quarter Lake Consultant Fee	169529	\$ 1,875.00		\$ 23,071.62
1/19/2023	Progressive Architects Engineers PL	1st Quarter Lake Consultant Fee	171352	\$ 2,000.00		\$ 21,071.62
1/26/2023	PLM Lake & Land Management	2023 EGLE Permit Fee	171555	\$ 75.00		\$ 20,996.62
1/31/2023	Huntington Bank	Interest Income			\$ 47.26	\$ 21,043.88
2/28/2023	Huntington Bank	Interest Income			\$ 79.36	\$ 21,123.24
3/31/2023	Huntington Bank	Interest Income			\$ 67.58	\$ 21,190.82
4/20/2023	Progressive Architects Engineers PL	2nd Quarter Lake Consultant Fee	173256	\$ 2,000.00		\$ 19,190.82
4/30/2023	Huntington Bank	Interest Income			\$ 60.48	\$ 19,251.30
5/2/2023	Montcalm County	2022 Delinquent Settlement			\$ 873.91	\$ 20,125.21
5/8/2023	Montcalm County	2022 Collected Settlement			\$ 31,191.64	\$ 51,316.85
5/31/2023	Huntington Bank	Interest Income			\$ 150.43	\$ 51,467.28
6/20/2023	PLM Lake & Land Management	05/24/2023 Weed Treatment	174640	\$ 6,292.50		\$ 45,174.78
6/30/2023	Huntington Bank	Interest Income			\$ 146.32	\$ 45,321.10
7/20/2023	Progressive Architects Engineers PL	3rd Quarter Lake Consultant Fee	175147	\$ 2,000.00		\$ 43,321.10
7/31/2023	PLM Lake & Land Management	06/21/2023 Weed Treatment	175484	\$ 3,155.62		\$ 40,165.48
7/31/2023	Huntington Bank	Interest Income			\$ 142.66	\$ 40,308.14
8/31/2023	Huntington Bank	Interest Income			\$ 133.28	\$ 40,441.42
9/5/2023	PLM Lake & Land Management	08/09/2023 Weed & Algae Treatment	176111	\$ 2,714.83		\$ 37,726.59
9/30/2023	Huntington Bank	Interest Income			\$ 117.90	\$ 37,844.49
10/19/2023	Progressive Architects Engineers PL	4th Quarter Lake Consultant Fee	177051	\$ 2,000.00		\$ 35,844.49
10/31/2023	Huntington Bank	Interest Income			\$ 115.73	\$ 35,960.22
11/30/2023	Huntington Bank	Interest Income			\$ 110.91	\$ 36,071.13
12/31/2023	Huntington Bank	Interest Income			\$ 115.11	\$ 36,186.24
1/18/2024	Progressive Architects Engineers PL	1st Quarter Lake Consultant Fee	178927	\$ 2,000.00		\$ 34,186.24
1/31/2024	Huntington Bank	Interest Income			\$ 111.46	\$ 34,297.70
2/29/2024	Huntington Bank	Interest Income			\$ 102.77	\$ 34,400.47
3/7/2024	PLM Lake & Land Management	2024 EGLE Permit Fee	179950	\$ 875.00		\$ 33,525.47
3/31/2024	Huntington Bank	Interest Income			\$ 114.30	\$ 33,639.77
4/11/2024	Progressive Architects Engineers PL	2nd Quarter Lake Consultant Fee	180780	\$ 2,000.00		\$ 31,639.77
4/30/2024	Huntington Bank	Interest Income			\$ 105.23	\$ 31,745.00
5/13/2024	Montcalm County	2023 Collected Settlement			\$ 30,294.00	\$ 62,039.00
5/13/2024	Montcalm County	2023 Delinquent Settlement			\$ 1,897.60	\$ 63,936.60
5/31/2024	Huntington Bank	Interest Income			\$ 200.57	\$ 64,137.17
6/30/2024	Huntington Bank	Interest Income			\$ 239.81	\$ 64,376.98
7/11/2024	PLM Lake & Land Management	05/29/2024 Weed Treatment	182911	\$ 13,971.25		\$ 50,405.73
7/31/2024	Huntington Bank	Interest Income			\$ 176.65	\$ 50,582.38
8/1/2024	Progressive Architects Engineers PL	3rd Quarter Lake Consultant Fee	183221	\$ 2,000.00		\$ 48,582.38
8/31/2024	Huntington Bank	Interest Income			\$ 166.15	\$ 48,748.53
9/12/2024	PLM Lake & Land Management	08/08/2024 Weed Treatment	184172	\$ 1,825.00		\$ 46,923.53
9/30/2024	Huntington Bank	Interest Income			\$ 145.46	\$ 47,068.99
10/10/2024	Progressive Architects Engineers PL	4th Quarter Lake Consultant Fee	184550	\$ 2,000.00		\$ 45,068.99
10/31/2024	Huntington Bank	Interest Income			\$ 134.32	\$ 45,203.31
11/30/2024	Huntington Bank	Interest Income			\$ 121.38	\$ 45,324.69
12/31/2024	Huntington Bank	Interest Income			\$ 118.36	\$ 45,443.05
1/16/2025	Progressive Architects Engineers PL	2025 1st Quarter Lake Consultant Fee	186816	\$ 2,000.00		\$ 43,443.05
1/30/2025	PLM Lake & Land Management	2025 EGLE Permit Fee	187090	\$ 875.00		\$ 42,568.05
1/31/2025	Huntington Bank	Interest Income			\$ 110.70	\$ 42,678.75
2/28/2025	Huntington Bank	Interest Income			\$ 96.23	\$ 42,774.98
3/31/2025	Huntington Bank	Interest Income			\$ 107.61	\$ 42,882.59
4/3/2025	Progressive Architects Engineers PL	2025 2nd Quarter Lake Consultant Fee	188327	\$ 2,000.00		\$ 40,882.59
4/30/2025	Huntington Bank	Interest Income			\$ 103.16	\$ 40,985.75
5/31/2025	Huntington Bank	Interest Income			\$ 104.93	\$ 41,090.68
6/3/2025	Montcalm County	2024 Collected Settlement			\$ 30,022.62	\$ 71,113.30
6/3/2025	Montcalm County	2024 Delinquent Settlement			\$ 2,177.38	\$ 73,290.68
6/30/2025	Huntington Bank	Interest Income			\$ 188.08	\$ 73,478.76
7/10/2025	Progressive Architects Engineers PL	2025 3rd Quarter Lake Consultant Fee	190325	\$ 2,000.00		\$ 71,478.76
7/10/2025	PLM Lake & Land Management	05/27/2025 Weed Treatment	190323	\$ 8,911.25		\$ 62,567.51
7/31/2025	Huntington Bank	Interest Income			\$ 170.51	\$ 62,738.02
8/7/2025	PLM Lake & Land Management	06/26/2025 Weed & Algae Treatment	191106	\$ 953.75		\$ 61,784.27
8/31/2025	Huntington Bank	Interest Income			\$ 156.73	\$ 61,941.00
9/18/2025	PLM Lake & Land Management	08/15/2025 Weed & Loosestrife Treatment	192047	\$ 4,813.10		\$ 57,127.90
		<b>Remaining Balance</b>				\$ 57,127.90



**MUSKELLUNGE LAKE  
LAKE IMPROVEMENT BOARD MEETING**

**October 1, 2025**

**4:00 P.M.**

**Drain Commissioner's Office**

**ATTENDANCE RECORD**

1. Bob Pickel
2. Randy Macarelli
3. Todd Sattler
4. Anne Epyford-MCDC
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