

**PENTWATER LAKE IMPROVEMENT PROGRAM
PROPOSED ANNUAL BUDGET
2024 – 2028**

Improvement	Annual Cost
Aquatic Plant Control	\$25,000
Lake Management Consulting	\$13,000
Information and Education	\$2,000
Pentwater Lake Association Water Quality Sampling	\$2,500
Shore Management Consulting	\$15,000
<u>Administration and Contingency</u>	<u>\$6,000</u>
Total Annual Cost	\$63,500

Aquatic Plant Control

The Pentwater Lake Improvement Program will include a combination of herbicide treatments and mechanical harvesting. The program will focus primarily on invasive species such as Eurasian (hybrid) milfoil, curly-leaf pondweed, starry stonewort, and European frog-bit.



Eurasian (hybrid) milfoil



European frog-bit



Starry stonewort

Lake Management Consulting

Lake management services would be provided by the Pentwater 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. A vegetation survey would be performed each summer in accordance with Michigan Department of Environment, Great Lakes, and Energy, *Procedures for Aquatic Vegetation Surveys*. With these procedures, the type and relative abundance of each plant species is determined around the entire shoreline. This data will allow evaluation of year-to-year variability in plant growth.

Information and Education

Information regarding the Pentwater Lake Improvement Program will be posted on the Pentwater Lake Improvement Board’s website (www.pentwaterlakeboard.org). The website would be updated periodically and include information regarding lake board activities, the invasive plant control program, water quality monitoring results, and links to other relevant information sources.

Pentwater Lake Association Water Quality Sampling

The Pentwater Lake Association would collect water samples within Pentwater Lake as part of the Michigan Clean Water Corps Cooperative Lakes Monitoring Program (CLMP) and from select

tributaries. Lake Board funds would be used to cover training, laboratory costs and CLMP fees. The Pentwater Lake Association would provide data and/or a report of findings to the Lake Board annually.

Administration and Contingency

The project administration and contingency would be used for lake board administrative expenses, unforeseen project-related expenses, attorney fees, technical evaluations and assistance, public hearing proceedings, and any direct costs incurred by the Pentwater Lake Improvement Board. Consultant administrative services would include periodic attendance at meetings, the review and processing of contractor invoices, and assistance with public hearing proceedings.

Shore Management Consulting

A shore management consultant will oversee and guide the Pentwater Lake Improvement Board on the selection and implementation of shoreline improvement projects on Pentwater Lake. The consultant would also be responsible for engaging riparians through site demonstrations, education, coordination of project areas, and developing territorial planning. They will also be required to apply for grants to supplement board funding. The consultant would be responsible for procuring permits to implement shore improvements with board approval. The consultant will manage contractors, assist with permitting, and prepare technical specifications and bid documents.

Existing Surplus Funds

Existing surplus funds up to \$135,000 may be used for lakeshore management and shoreline improvement projects, floating vegetation removal, and a landing blitz in coordination with the DNR Clean, Drain, Dry program. Shoreline improvement projects must be approved by the Lake Board and follow the contracting requirements contained in Part 309 of the Natural Resources and Environmental Protection Act (Public Act 451 of 1994, as amended).

Project Organization and Financing

The Special Assessment District for Pentwater Lake includes all properties that border the lake and back lots with deeded or dedicated lake access. Lakefront parcels are assessed one unit of benefit; back lots with deeded or dedicated lake access are assessed one-half unit of benefit; and commercial lots are assessed double (two units if lakefront and one unit if back lot with deeded or dedicated lake access). Contiguous lots in common ownership are assessed as a single parcel provided only one house exists on the parcel. In addition, Pentwater Township and the Village of Pentwater are each assessed 10% of the total project cost. Approximate annual assessment amounts based on these criteria are provided below.

**Pentwater Lake Improvement Program Approximate Annual Assessments
2024 - 2028**

	Number of Units	Approximate Annual Assessment (2024–2028)
Lakefront	1.0	\$136
Back Lot or Channel	0.5	\$68
Commercial Lakefront	2.0	\$272
Commercial Back Lot	1.0	\$136
Pentwater Township	10%	\$6,350
Pentwater Village	10%	\$6,350