

## PLM Lake & Land Management Corp. Northern Division

P.O. BOX 424 Evart, MI 49631 800-382-4434 ext. 2200 (o) 231-372-5900(f) www.plmcorp.net

# On-Site Lake Evaluation Record

Lake Name: Big Bass Lake				County: Lake		
Evaluated by: Sal Adams Reviewed by: Bre			Grabill		Date: September 2019	
Purpos	e of evaluat	t <b>ion:</b> End of	Season Survey, Rev	iew		
Evalu	ations Per	formed				
X Veget X X x	ic Vegetatio Aquatic veg Aquatic veg ation evalua Visual evalu Sample coll Sonar profi GPS-mappe	getation surgetation brid tion methoc uation lection with ling	vey ef check ls rake	x	_X_  GP! x	Shoreline mapping
Overa	all Conditi	on of Lake	2			
x 	Very good (no immediate action require Fair (Continue Management Progra Poor (management needed as soon			ed) ram) n as possible)		
Probl	ems Noted	d				
	x Eurasia  Curlyle  other  Excessive g  Excessive f  Poor water	n watermilf af pondwee rowth of natiliamentous	cive plants algae growth	n map	)	



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#### Recommendations

Х	Monitoring Program: Continue Program Next Season					
	Continue Monitoring Next Year: $\square$ urgent, x serious, $\square$ moderate, $\square$ slight					
Χ	Herbicide application: Continue Program Next Season					
	Need for herbicide treatments next season: $\square$ urgent, $x$ serious, $\square$ moderate, $\square$ slight					
	Algaecide application: Continue Program Next Season					
	Need for algae treatments next season: $\square$ urgent, $\square$ serious, $\square$ moderate, $\square$ slight					

### **Notes**

Big Bass Lake was surveyed and treated throughout 2019 for EWM. The end of summer survey, done in September, is attached for reference. During 2019, treatments were preformed on 5/29, 6/26, 7/31 and 9/6, 2019. Approximately 55 acres of EWM was treated throughout the season using a combination of systemic products (Renovate OTF, Renovate 3 and Sculpin) as well as minimal contact herbicides (Diquat). The goal was to keep the lake navigable and open for recreation, while controlling exotic plants, which was achieved with the treatment program. Growing seasons and changing weather patterns is prolonging the growing season in our area and treatment programs have to be responsive to the growth present. Our end of summer survey showed your program achieved that well.

The AVAS Survey found 13 submersed and emergent native plants in and around Big Bass Lake. This is a very promising sign for Big Bass Lake and the greater the diversity moving forward, the better. Native plant diversity is key to promoting a healthy lake ecosystem, from promoting a healthy fishery to sediment stabilization. Native plants are vital to the overall health of the ecosystem but bombarding residents is not the goal either. At no time should all vegetation be removed from the lake. Residents are encouraged to rake their beaches and remove any floating weeds/debris. Management/treatments can be explored in the future, if needed; but the current and most pressing issue is non-native plant growth.

It is recommended to continue your EWM management program next season including reviewing possible whole lake Sonar A.S treatments in the future. It is important to continue to monitor/survey the lake regularly as well.

Plant Tread graphs are not available yet; but will be in future years, once additional plant data is collected annually.

If you are interested in participating in a water quality monitoring program, please contact me for details.

Please contact me with questions or concerns.

BreAnne Grabill, Environmental Scientist

Northern Lakes Manager

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PLM Lake & Land Management Corp. North

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