

# NOTICE 2021

PLM Lake and Land Management Corp  
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**Bella Vista, Lake and Pond has been scheduled for the week of:**

Date	Description	Date	Description
3/29/2021	Spring Water Quality	7/12/2021	Optional Algae Treatment, E. Coli
5/3/2021	Fluridone (Sonar A.S.) Treatment	8/9/2021	Optional Algae Treatment, AVAS Survey, WQ
5/24/2021	Fluridone (Sonar A.S.) Bump-Up Treatment, Opt. Algae	10/4/2021	Phragmites
6/14/2021	Optional Algae Treatment		

EGLE permitting restrictions, national holidays, and/or weather conditions may influence the timing of treatments throughout the 2021 season. PLM treats each lake according to a schedule or season plan, established with the cooperation of your lake association, lake board or residents on the lake. The treatment schedule is approximate. Please watch your shoreline for the posting of the 8.5x11 inch, yellow or green signs. The signs will indicate the date of the treatment, the products used, and any restrictions on the use of treated water for swimming, watering lawns, etc. The property owners in this area are planning to have the waters chemically treated to control lake weeds and/or algae. This notice is being circulated in accordance with Department of Environment, Great Lakes and Energy (EGLE) procedures. Below is a list of herbicides that may be applied to the lake and the associated use restrictions. On the day of treatment, signs will be posted along the shoreline within 100 feet of treatment areas that indicate what products were used and specific water use restrictions that apply:

Chemical product/active ingredient	Chemical trade name	Do Not Use this water for swimming or bathing until	Do Not Use this water for ornamentals or turf irrigation until	Do Not Use this water for domestic purposes or agriculture irrigation until	Do Not Use this water for livestock watering or similar purposes until
Glyphosate	Aquaneat, Glyphosate 5.4	1 Day(s)	N/A	N/A	N/A
Endothall	Aquathol K, Hydrothol 191	1 Day(s)	N/A	14 Day(s)	14 Day(s)
Flumioxazin	Clipper, Schooner, Propeller	1 Day(s)	3 Day(s)	5 Day(s)	N/A
Imazapyr	Habitat	1 Day(s)	120 Day(s)	120 Day(s)	N/A
Chelated Copper Herbicide	Harpoon, Komeen, Komeen Crystal, Nautique	1 Day(s)	N/A	N/A	N/A
Fluridone	Sonar A.S., ONE	1 Day(s)	30 Day(s)	30 Day(s)	N/A
Florpyrauxifen-Benzyl	ProcellaCOR	1 Day(s)	Site-specific recommendation* No restriction for established turf/grasses	N/A on domestic; assay indicates no detect at the water intake	N/A
Triclopyr granular	Renovate OTF	1 Day(s)	Site-specific recommendation* No restriction for established turf/grasses	120 Day(s) or until assay indicates 1ppb or less. N/A on domestic	N/A
2,4-D amine Sculpin	Sculpin G	1 Day(s)	Site-specific recommendation* No restriction for established turf/grasses	N/A on domestic; assay indicates levels under 100ppb at the water intake	N/A
Diquat Dibromide	Tribune	1 Day(s)	3 Day(s)	5 Day(s)	1 Day(s)

**PLM Blue, Cygnet Select:** water dye (tracer), **Copper Sulfate, Cutrine Plus-Ultra, Captain-XTR, Earthtec, SeClear and SeClear G, Formula F-30, K-Tea:** chelated copper, **Cygnet Plus, PolyAn:** Adjuvant, **Pak 27, AquaSticker, Green Clean L and Green Clean 5.0:** oxidizer, **AquaPrep:** enzymes & non-ionic surfactants, **M.D. pellets:** gram negative, naturally occurring bacteria. **PLM Enzyme:** enzymes, **Phoslock:** phosphorus locking technology.

**No Restrictions** on swimming, bathing, irrigation, domestic purposes or livestock watering.

For a complete listing of all product labels, please see our website.

N/A= Not Applicable INDEF= Indefinite

\*Site-Specific recommendations to limit ornamental irrigation with ProcellaCOR, Renovate & Sculpin granular treated water will typically last 2-14 days. Contact PLM for further information.

The chemicals used for Aquatic Nuisance Control are registered by the U.S. Environmental Protection Agency and the Department of Environment, Great Lakes and Energy. The potential for damage to fish and other non-target organisms is minimal provided that the product is used as directed on the product label and the permit. To minimize the possible effects on health and the environment, the treated water is restricted for the above purposes.

**Method of Application:** Chemical application will be made via boat, back pack, and/or land vehicle applying liquid surface products by surface spray and/or injection. Granular product application will be surface broadcast.

**PLM Lake & Land Management Corp. Certified Applicators:** Salvatore Adams, Jason Broekstra, Adam Cichon, Bill D'Amico, Jaimee Desjardins, William Ducham, Jeff Fischer, Christopher Garner, BreAnne Grabill, Dustin Grabill, Steve Hanson, Kyle Heath, Jake Hunt, Caleb Hutchinson, Jacob Irons, Shannon Leifker, Blake Mallory, Michael Pichla, Eric Reed, Colton Risner, Cameron Robinson, James Scherer, Alison Schermerhorn, Ben Schermerhorn, Casey Shoaff, Lucas Slagel, Keith terHorst, Jeff Tolan, Andy Tomaszewski, Dennis Vangessel, Andrew Weinberg

## Impacts of Wake Boats and Best Practices:

The popularity of wake sports has been on the rise over the past several years and with it the number of “wake boats” operating on lakes. Whether wake boarding or wake surfing, these boats are designed to produce large waves. Hull shape, ballast tanks, adjustable plates, and horse power are some of the technologies used. These waves are often equal to or greater than most major storm events which can increase shoreline erosion. Unlike old school/conventional “ski” boats which typically push thrust parallel to the water’s surface, wake boats tend to push thrust at a downward angle and therefore have a greater potential to disrupt bottom sediments in addition to shoreline eroding shoreline.



PLM staff often field inquiries about impacts of wake boats on lakes. The honest answer is that there is a shortage of research on the subject but new studies currently being done suggest that larger waves may increase the potential for shoreline erosion and deeper thrust may disrupt/resuspend sediments at the lake bottom.

**PLM would like to provide a few guidelines that can reduce the potential for adverse effects to your lake.**

- **Waves decrease in size the longer they travel. Therefore, PLM recommends operation of wake boats at least 500 ft from shore whenever possible.**
- **Studies conducted on different wake boat models suggest that thrust (depending on the trim angle) will typically reach a depth of ~12 feet. Therefore, PLM recommends that wake boats be operated in depths greater than 12 ft whenever possible.**

As time goes on there is certain to be more research done in this area and/or regulation. For the time being, be aware of potential effects on your lake and adapt boating practices to minimize impacts.

## PLM Lake & Land Management, Important 2021 Update

Spring is almost here and with it comes a sense of optimism, especially after the challenges of 2020. PLM is ready to hit the ground running. Our highly trained staff is prepared to efficiently manage and protect your waterbody using new technologies in 2021 and beyond.

One of the most significant issues for the 2021 season is a result of new Michigan Department of Environment, Great Lakes & Energy (EGLE) permit changes. The new rules/restrictions are somewhat complex; therefore, a summary is required. Significant discussion and clarification took place during the fall and winter between PLM, Michigan Aquatic Managers Association (MAMA), and EGLE to ensure that these new changes could be implemented as efficiently as possible for the 2021 season. **The new permit condition does not allow the use of copper sulfate for filamentous algae control during May and June while fish spawning is taking place. The condition may also restrict the amount of shoreline algae that can be managed during May and June.** While copper sulfate cannot be used in May & June, chelated forms of copper algaecides are still allowed. Chelated forms of copper algaecides release slower into the water column providing effective control of the algae filament, while also producing less potential acute toxicity to fish spawning. In the past, PLM has used a combination of copper sulfate and other products, including chelated algaecides, to provide quick and complete control at a more affordable cost. We will still be able to control shoreline algae growth using chelated copper alone. However, the control will be slightly slower and unfortunately, more expensive. With that said, we still have the ability to manage the algae in your lake/pond during the months of May & June.

PLM understands and supports the intent of this new condition; to protect and improve our fisheries. However, we do not believe relevant scientific studies or a diverse work group was utilized to develop conditions that are in the best interest of our aquatic ecosystems and lakefront homeowners. The good news is that EGLE has implied that these conditions may be modified or eliminated in the future if they create unforeseen negative environmental impacts.

Lastly, although EGLE requires an annual permit renewal fee, most of the permits are established under a multiple-year permit structure. Multiple year permits that do not expire until the end of 2021 & 2022 are exempt from this new condition. Another exemption would be if your water body has a surface area that is less than 10 acres.

As you can see, every year there are changes and new hurdles to the permits that must be followed and adapted into our management practices. PLM remains optimistic, despite the hurdles, and will continue to tackle any new challenge to ensure that your waterbody is protected and enjoyed for years to come.