



Lake and Pond Solutions, LLC

W4950 County Road A
Elkhorn, WI 53121
Office (262) 742 - 2600
www.lakeandpondsolutions.com
jeff@lakeandpondsolutions.com

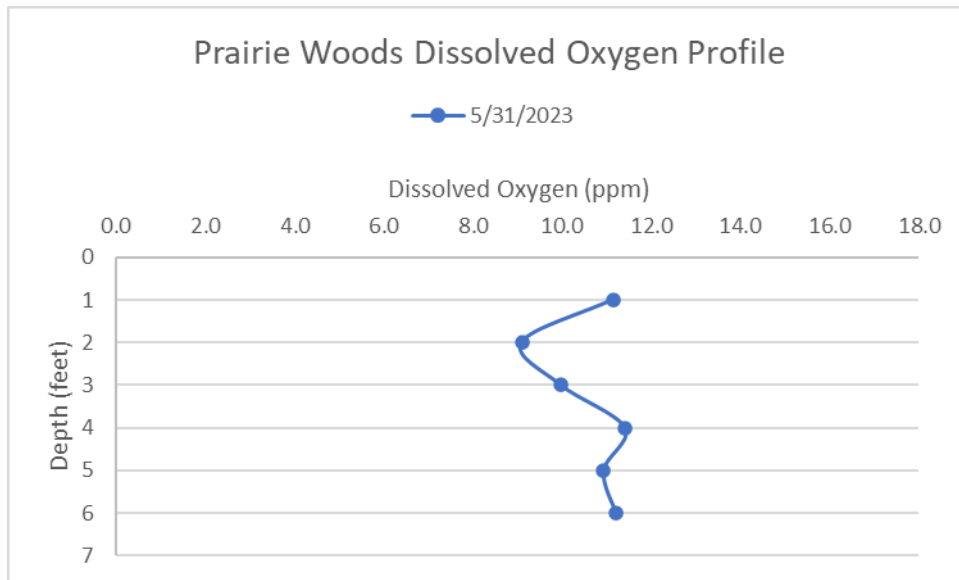
Prairie Woods HOA
Attn: Deena Kreiger
2335 Fen View Circle
Island Lake, IL

June 8th, 2023

Dear Ms. Kreiger,

Thank you for your interest in Lake and Pond Solutions, LLC. We are a total lake and pond management company, dealing with hundreds of products for aquatic use. Our degreed biologists are also licensed, certified and fully insured herbicide applicators with over 70 years of combined management experience. The following proposal and recommendations are regarding our site visit on 5-31-23.

Your pond is 0.62 acres with 777' of shoreline and a 7.25' max depth. Growth in the pond included curly-leaf pondweed (invasive), sago pondweed, algae, chara, coontail, flat-stem pondweed, phragmites (invasive), willows, and cattails. Dissolved oxygen was good ranging from 9.10 – 11.41 ppm while temperature ranged from 71.2 – 79.2 degrees F.



While on site we also checked soft sediment depths at 8 different points in the pond (see below).



Lake and Pond Solutions, LLC

PROVIDING ENVIRONMENTALLY SOUND AQUATIC MANAGEMENT SOLUTIONS



PRAIRIE WOODS SEDIMENT SURVEY				
Point	Water Depth (ft)	Sediment Depth (ft)	Potential Depth (ft)	% LOSS
1	3.50	0.25	3.75	6.67
2	6.50	0.5	7.00	7.14
3	6.00	0.25	6.25	4.00
4	7.25	0.25	7.50	3.33
5	6.50	0.25	6.75	3.70
6	6.50	0.25	6.75	3.70
7	6.25	0.25	6.50	3.85
8	3.75	0.25	4.00	6.25
AVERAGE SEDIMENT ACCUMULATION - 0.28 feet				
VOLUME LOST - 4.64%				

Soft sediment ranged from 3 – 6 inches with an average accumulation of 3.4 inches. This is great considering the pond was built back in 2006 and means it has only lost 4.64% of its volume. Aside from the excessive growth in the pond which includes a few invasive species, the pond seems to be doing well from a stormwater functional standpoint despite the lack of management.

Below we've listed our recommendations including scheduled visits, treatments, beneficial bacteria, dye and a fountain.

SCHEDULED VISITS

This option would begin in June and continue into September for a total of 5 scheduled site inspections (once every 4 weeks). Included would be scheduled visits to the property, our Basic Service Fee, pond



Lake and Pond
Solutions, LLC

PROVIDING ENVIRONMENTALLY SOUND AQUATIC MANAGEMENT SOLUTIONS

inspection, dissolved oxygen and temperature readings and labor for bacteria or dye application. All product and herbicide/algaecide application charges are additional and invoiced per occurrence. We can work within a predetermined budget, notifying you of the status as the season continues. Each invoice will be billed with 20-day terms. The total for these scheduled visits would be: **\$605.00**

**Service calls outside of the monthly visit are charged \$91 plus product and application*

ALGAE/PLANT TREATMENTS

There was a lot of growth in the pond, so we'll likely need to be bit careful with treatments to start since it is unaerated. Treatments can vary widely from year to year depending on rainfall, sunlight, temperature, budget and overall expectations. Below I have estimated the costs of basic algae and weed treatments. This cost obviously has the potential to change based on actual algae growth and plants present. The total per treatment including product and application would range from \$450 - \$850 depending on the type and severity of growth. Emergent treatments (for invasive phragmites) would run approximately \$250. I would expect that you may need between 2-3 treatments for the season so the estimated treatment budget would be: **\$1,950.00**

BENEFICIAL BACTERIA

Although herbicides and algaecides are a large portion of our business, we always suggest an all-natural alternative. By using certain strains of bacteria and all-natural enzymes, it is possible to reduce muck and algaecide use.

We have three different temperature driven bacteria: Triton CW (cold-water), Triton AP (all-purpose), and Summer Slam (warm water). Each is a potent blend of microorganisms and fast acting enzymes that excel at consuming phosphorus, reducing sludge (muck) and clarifying water. They would be applied at 3# per visit so you would need 15# for the season. Additionally, I would look to apply 1.75 gal of Metafloc during one of the visits after weeds are treated to take up phosphorus. Total amount for the season would be:

15# Triton bacteria	\$404.25
1.75 gal. Metafloc w/ app	\$384.66

NEPTUNE DYE

This concentrated blue dye is a natural food grade dye that helps the pond to look darker, deeper, and hide shoreline algae more effectively. The dye would not affect fish, wildlife, or swimming. One quart of the dye will effectively shade 4 acre-feet of water. You would need 2.0 quarts over this season to maintain color. **\$99.98**

KASCO MARINE FOUNTAINS

Kasco Marine's line of fountains range from ½ HP to 7.5 HP. 2HP units and lighting are covered with a 3-year parts and labor warranty. We guarantee our installations to be free of installer error for a period of 30 days. It is important to note that although Kasco Marine pays for the warranty repair and shipping back to the customer, the customer is responsible for time spent on site to troubleshoot, remove, ship, and re-install a warranty repair (charged at our standard rates). Lake and Pond Solutions LLC is a Kasco Marine authorized service center, able to handle all repair work. Below I've quoted a 2HP Kasco Marine VFX (aerating) fountain with optional lighting.



Lake and Pond
Solutions, LLC

PROVIDING ENVIRONMENTALLY SOUND AQUATIC MANAGEMENT SOLUTIONS

- **2HP VFX Fountain** – includes float, 240V power unit (11.0 amps), propeller, debris screen, quick disconnect, 100' cable with flex sleeving (for muskrat protection), and control box with GFI and mechanical timer. 3-year warranty. Standard V-shaped pattern is 8' x 32'. Shipping included. **\$6,607.00**

*We could reduce the size of the unit to 1HP if cost is an issue or 120V is the only power source available. This would reduce cost by \$3,367.



- *OPTIONAL Airmax Color-Changing LED Lighting* – includes (3) sealed color-changing LED fixtures (~1800 lumens each), 100' cable with polyflex sleeving (for muskrat protection), mounts, wireless RF remote with 200' range, and shipping. Endless color options and 9 preset programs. 3-year warranty. Shipping included. **\$1,974.99**

*The cost to run the 2HP unit 17 hours per day would be approximately \$200/month.

FOUNTAIN INSTALLATION/REMOVAL

Installation	\$250.00 per occurrence
Removal	\$350.00 per occurrence (includes cleaning and storage)

Installation: Your electrician will have to mount and hardwire the control panel on a post prior to installation. They should also bury 2" conduit from the bottom of the panel to the pond edge at a depth of at least 4" below grade for the fountain cable. We can work directly with your preferred electrician to ensure all power requirements are met. Lake and Pond Solutions, LLC will then assemble and install the fountain using ballast block anchor lines, set timers and perform function checks. Trenching to bury cable from the panel to pond edge is additional at \$10.00 per foot (if not done prior to install).

I know that there is a lot of information in here, so if you have any questions or concerns don't hesitate to contact me. Thank you very much for your interest in Lake and Pond Solutions, LLC. I look forward to earning your business this year!

Sincerely,

Jeff Stelzer – Owner/Senior Biologist
Lake and Pond Solutions, LLC
(cell) 414.975.7301
(office) 262.742.2600



Lake and Pond
Solutions, LLC

PROVIDING ENVIRONMENTALLY SOUND AQUATIC MANAGEMENT SOLUTIONS