



# AQUA-TALK



**"Professionals Preserving Aquatic Environments Today...  
for Tomorrow."**

Volume 17, Issue 1

## PLM Celebrates 25 Years of Service!

Professional Lake Management is celebrating 25 years in the aquatic industry! We would like to thank you for your support and trust over the years. PLM started off in 1979 as a small family owned "mom and pop shop". PLM is still a privately owned family corporation, and today is also a nationally recognized full service aquatic plant management company! In celebration we thought it would be appropriate to establish a new mission statement for the future:

*"To provide the highest quality of aquatic plant management services available. Striving to implement new technology and diversity of services to manage our unique aquatic ecosystems. Seeking and retaining educated, experienced professionals, to ensure that each service we provide is exploited to the maximum extent possible".*

## Governmental Affairs/Aquatic Politics

PLM would like to update you regarding the proposed House Bills, 4729 & 4730. A letter and resolution of support was sent to all PLM customers in mid January of 2004 regarding legislation that would change some of the DEQ's permitting procedures and rules in which we can manage your water body. The response to this letter was very good since many of PLM's customers returned resolutions in support of this legislation, representing thousands of riparian homeowners. The legislation is currently still in Senate Committee and "Natural Resource and Environmental Affairs" review and Senate public hearings are taking place as of March 23, 2004. If you have not sent in your signed resolution in support of this legislation, it is not too late. Contact our office ASAP and we will get you the appropriate information and/or answer any questions. PLM will update you regarding legislative issues as they develop. Thank you for your support, this legislation is in **your** best interest!

## Posting Fees for 2004

The posting fee structure for the 2004 season has not changed from 2003. However, the new Department of Environmental Quality rules require that all ponds, permitted or not, be posted prior to each treatment. Therefore, customers who may not have fallen under posting requirements in the past, may now require postings. The following is the cost breakdown for posting signs for algae treatments during the 2004 season. Minimum cost is based on surface acreage of lake or pond. Lakes will also require an additional \$1.00 per acre of treatment, per application. To make any adjustments or discuss payment options, please contact our office.

**Ponds:** 0 to 1 acre = \$10.00  
1 to 5 acres = \$15.00  
5 to 10 acres = \$25.00

**Lakes:** 10 to 100 acres = \$50.00 Minimum + \$1.00 for each acre.  
100 to 500 acres = \$75.00 Minimum + \$1.00 for each acre.  
500 acres and bigger need to be negotiated.

To make things easier for you we will be using "Green" signs for algae treatments (no restrictions) and "Yellow" or "Red" signs for treatments that have restrictions. PLM will continue to keep you updated on posting fees and any changes that may occur.

### PLM Michigan Staff

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Biologist

Certified Aquatic Applicator

#### Jaimee Bale

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Environmental Scientist

Certified Aquatic Applicator

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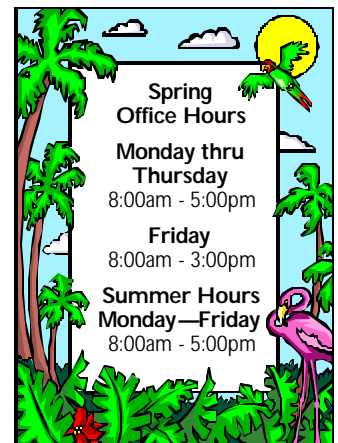
Harvesting Manager

#### Garry Benchley

Harvesting Technician

#### Suzanne Stadler

IT Professional/Office Manager





## Industry News and Updates

### Lake Wide Aeration – New Technology at PLM!

Over the past two years PLM has been working with several Lake Association's towards implementing an aeration system for their lake. For the 2004 season Cowan Lake Association, Kent County, will be utilizing "SolarBee" circulators to break their internal loading cycle. The Middleboro Lake Association in Kent County will be utilizing "MixAirTech" bottom diffusers to address internal loading problems in their lake. Both of these lakes are being viewed as case studies and we will provide you with updates in the Fall Aqua Talk! For those of you who may need a refresher on aeration, here is a recap from the last Aqua Talk issue. Aeration is the process of adding dissolved oxygen to the bottom waters of a lake or pond. By adding dissolved oxygen to specific lakes that usually have de-oxygenated water can greatly benefit a lake's ecosystem. When dissolved oxygen is present or increased, it will assist in reducing the internal loading (regeneration of phosphorus from bottom sediments). By using aeration we would be able to slow down eutrophication, end the vicious cycle of internal loading, and stop the "band-aid" approach of treating algae growth year after year. Some benefits of aeration include; increase in water clarity, decrease in planktonic algae, improved water quality, reduction in nutrients such as phosphorus and nitrates, decrease in coliform bacteria, and increased aesthetics of the lake.

### Aqua Prep... The solution to excess algae and organic muck!?!?

Over the past two years PLM has been incorporating a new product *Aqua Prep* into ponds and small lakes that have frequent algae blooms and/or strains of algae that are difficult to control. *Aqua Prep* is a specific blend of high-quality enzymes with non-ionic surfactants designed to increase the efficiency of product absorption into the target plant or algae and increases naturally occurring microorganisms in reducing organic pond sediment "muck". Good news, it works! The results have varied but there have been several cases where water bodies with a consistent history of prolific algae blooms have shown significant improvements in the seasons following *Aqua Prep* use. We believe these improvements are attributed to the use of *Aqua Prep*. Now the environment of the water bodies have changed. The water bodies are more efficient and the nutrients (fuel) are not as abundant, therefore less algae growth, more balance, fewer treatments and less money. Luke Britton, PLM's Pond & Fountain Manager will continue to monitor and exploit this product's ability. Don't be surprised if recommendations are made to add this product to your treatment program in 2004.

### A First for Michigan! Sonar PR will be used in Wixom Lake in 2004.

PLM will be the first applicator in Michigan to use a new formulation of Sonar. As many of you are aware the liquid formulation "Sonar A.S." is an excellent tool, which can provide long-term control (two to four years) of Eurasian Watermilfoil, in static or low flowing conditions. However, water bodies with a short retention time, i.e. large watersheds, several tributaries or rivers going thru them, the product could be lost too fast, not allowing for enough contact time with the plants and potentially having a failed treatment. In these high flow conditions Sonar A.S. is not recommended by PLM or approved by the MDEQ. SePRO the manufacturer of Sonar A.S. has developed a new granular formulation that can be used in flowing conditions. The Sonar PR granules slowly release fluridone into the water column at a precise dosage which will control target species with minimal/no damage to the native plants. The protocol for this treatment will require one to three bump-up applications. A variety of technology including FasTest, PlanTest and EffectTest will be used to monitor this treatment. PLM is not only interested in implementing this treatment program in flowing systems, but also incorporating it into static/low flow systems may offer additional benefits. We feel that using these tools together maximize our ability to achieve EWM control. An update regarding the treatment results from Wixom Lake Sonar PR treatment will be provided in the fall Aqua Talk!

## Clear Lake, the Solution to a Healthy Lawn and Lake!

Keeping a healthy lawn and a healthy lake can sometimes be a conflict of interest. Nutrients contained in most fertilizers, such as phosphorus and nitrogen, can lead to excess weed and algae growth when they end up in your water body. For this reason Professional Lake Management will now be offering Clear Lake lawn products for the 2004 season! *Clear Lake* products are phosphate free and have slow release nitrogen. Unlike our previous brand of fertilizer, *Clear Lake* is available with crabgrass preventer and weed control. You can purchase these products at our office. We are also happy to offer free delivery when coordinated with one of our pre-scheduled visits.



**Clear Lake is available in 50 lb bags:**

*Clear Lake Lawn Food:* \$22.10

*Clear Lake Crabgrass Preventer:*  
\$29.70

*Clear Lake Weed and Feed:* \$26.60

## . . . . . NEW Fluridone Requirements . . . . .

In the last issue of *Aqua Talk* we discussed how the new DEQ rules pertaining to Lake Management Plans (LMP) for whole lake Sonar treatments could financially affect our customers. Our hopes were that the cost associated with the LMP would be little to no cost at all. The bad news is there will be a fee, but the good news is that it will be small. We have already budgeted DEQ permit requirement fees into the 2004 programs, therefore this should not affect or take funds away from the actual treatment. The fee for compiling a LMP will be \$750.00 for the 2004 season and will be billed on the initial treatment invoice. This fee covers money paid by PLM to obtain information from specific state agencies as well as PLM's time compiling the data, mapping and researching. Outside engineering firms and consultants are charging \$1,500.00 to \$3,000.00 for this service. We believe that \$750.00 is fair and not going to negatively impact the treatment programs for 2004. For the 2005 season PLM will be charging \$1,000.00 to \$1,250.00 for this service.

The new rules not only create more hurdles and cost for the 2004 whole lake fluridone treatments, they also require additional water quality collection and analysis. The new water quality sampling will include measuring the Secchi disk depth (water clarity) at least 8 times throughout the season, along with taking detailed temperature, dissolved oxygen, alkalinity and phosphorus readings in the early spring and late summer. Fortunately for many of our customers who currently participate in our water quality program the only major change is the amount of Secchi disk readings required. The fees associated with the new water quality requirements will be \$375.00 for the standard program and \$100.00 - \$200.00 per additional site visit for Secchi disk measurement. The price range for Secchi disk measurements is dependent upon location of lake and associated travel time. If your association would like to keep costs down and assist in collecting this information we will supply you with the necessary equipment and forms to do so. The cost of purchasing a Secchi disk is \$50.00, with an additional \$100.00 fee for report compilation. Please contact Jaimee Bale at our office for further information.

Unfortunately, it does not stop here! For any future whole lake fluridone treatments we now not only need to have prior vegetation survey data, but we also need a full set of water quality data from the previous season. Therefore, in order to obtain a permit for fluridone use in 2005, water quality measurements must be taken throughout the 2004 season. We are revising our WQ program to not only keep expenses down but to also keep our options open for the future.

**We would like to recognize and thank all of our customers  
during the 2003 season!  
Thank you for allowing us to manage your water body.**

### Lake Association

Ackley Lake  
Algonquin Lake  
Baldwin Lake  
Banksong Lake  
Bass Lake-Elk Rapids  
Bass Lake/Spencer Twp  
Bayberry Condos  
Bear Lake  
Bella Vista Lake  
Bella Vista North  
Bertha Lake  
Big Star Lake Association  
Big Whitefish  
Bluff  
Bostwick Lake  
Brownwood  
Campau-Kettle Lakes  
Canadian Lakes  
Cascade Lakes  
Cascade Lakes Entrance  
Chippewa Lake  
Cobb Lake  
Como Lake  
Connamara Lake  
Cottonwood Lake  
Cowan  
Crockery Lake  
Crystal Lake  
Crystal Lake Association - Barry  
Dream Lake

Duck Channel  
Emerald Lake  
Emerald Lake/Sylvan  
Fawn Lake  
Fennessy Lake  
Fine Lake  
Fisk Lake  
Geneva  
Gitchegumee  
Gravel Lake  
Great Bear  
Gun Lake Association  
Harper Pond  
Hidden Lake  
Hidden Lake Hud  
Hill-N-Brook  
Idlewild Lake Assoc.  
Indian Lake Association  
Jennie Lake  
K Lake  
Kimball/Pickeral  
Klinger Lake  
Knobloch Lake  
Lake 21  
Lake Columbia  
Lake George  
Lake James  
Lake LeAnn  
Lake Louise  
Lake Mickelson  
Lake Of The Pines

Lake Stanton  
Lake Victoria Association  
Laraway Lake  
Lily Lake  
Little Brower  
Little Pine Island  
Little Sand Lake  
Little Whitefish  
Long Lake (Fife)  
Long Lake (Tc)  
Lyon Lake  
Maple Lake-Paw Paw  
Margrethe Lake  
Marie Lake  
Maston Lake  
Middle Lake  
Middleboro Lake  
Mill Lake  
Mill Lake - Barry County  
Miramichi Lake Association  
Missaukee Lake Assoc  
Muskegon-Middle Lake  
Muskegon-North Lake  
Muskegon-Twin Lake  
Muskegon-West Lake  
Muskrat  
MVE II/Blaine Lake  
Myers Lake  
Nautical Nook  
North - Gobles  
North Lake Grand Junction

Orchards  
Oxbow Lake  
Paradise  
Paradise North  
Pinewood Lake  
Podunk  
Porter Lake Association  
Reeds Lake  
Riverbend Lake  
Rose Lake  
Round Lake  
Rushmore Lake  
Saddle Lake  
Sage Lake  
Sand Castle Estates  
Scenic Lake-Laingsburg  
Scenic Lake Kent  
Secluded Lake  
Selkirk Lake  
Sherman Lake - YMCA  
Shingle Lake  
Silver Lake  
South Pond  
Springwood Lake  
St. Marys Lake  
Sunnyview Lake  
Sunset Lake  
Three Lakes Association  
Tipsico Lake  
Tri-Lakes (Round)  
Turner Lake

Union Lake  
Upper Silver  
Walden  
Wall Lake  
Waterfront Lake  
Westboro Lake  
Westbury Lake  
Wolverine Lake  
Woodbeck Chain of Lakes  
Woods Lake  
Woods Lake-GR

### Condo Association

Ada Place Town homes  
Alpine Lakes  
Amber Lakes  
Amber Ridge  
Bennett Village  
Bridgewood Condominiums  
Clare Wood Condominiums  
Clements Mill Ponds  
Crystal Waters  
Dean Lake Woods  
Dogwood  
Dream Lake  
Emerald Pond  
Fairway Farms  
Falcon Point  
Gatehouse Condominiums  
Grand Village Condo  
Grandville East

Green  
Green Meadows  
Grenelefe  
Hammond Place  
Heathmoor  
Indian Spring  
Ironwood Estates Condo  
Lakeside Condominiums  
Lakewood Condominiums  
Mallard Cove  
Maple Lake Condo  
Meadows East  
Moorsend  
Oakmont Pond  
Pinehurst Ponds  
Quail Meadow Condo  
Rollingbrook Condos  
Royal Park Condos  
Silver Lake Site Condo  
Southgate Condos  
Stone  
Timber, N-Stonehedge  
Veits Landing  
Village And S. Village Condos  
Villas of Oakleigh Woods  
Waterford Ponds  
Whispering Springs #4  
Windemere/Highpoint  
Woodbridge  
Woodsong Valley Condo

### Homeowner Association

Adacraft  
Brookshire  
Brookside Village  
Cider Mill  
Country Meadows Village  
Country View Estates  
Crystal Springs  
Dewpoint East Estates  
Dix Farm  
East Lake Estates  
Fairview Shores  
Georgetown Shores  
Glass Lake  
Hathaway Pond  
Hickory Hills Village  
Hickory Woods  
Horseshoe Pond  
Hunter's Glen Pond (Lamb)  
Indian Lake Retention  
Indian Valley  
Laird Lake  
Lighthouse Village  
Little Asylum Lake  
Lumina  
Meadow Stream Mobile  
Monza Pond  
Old Elm Pond  
Pavilion  
Platinum Falls  
Preservation Estates  
Roundtree  
Sandy Shores Resort  
Silver Ridge  
Wild Basin (Wildwood Lake)  
Woodhill  
Tamarac Village  
Tamarac - Beemer Channel  
Teal Pond  
Thornapple Club  
VanSingel Farms  
Waterways Pines  
Waverly Shores Village  
Whispering Meadows  
Whispering Springs  
Win-Mill Farms  
Wind-N-Wood

### Private Pond

Austin Lake  
Bailey Pond  
Baker Pond  
Battershall Pond  
Beal Pond  
Besteman  
Biehl  
Billmayer  
Boelens Court Pond  
Bosch-Brian  
Brander  
C heff Pond  
Cheng/Woodcreek  
Cnossen  
Cole Pond (Battle Creek)  
Cole Pond (KZOO)  
Collier  
Cooper  
Degraff Pond  
Dejonge - Mike  
Dejonge Pond-Zeeland  
Dejonge, John  
Denherder Pond  
Dietzman Pond  
Doering Pond  
Dooley Pond  
Dornbos  
Eaton Larry  
Egypt Valley  
Fitzgerald Pond  
Heinlein  
Hoffman Henry  
Holsem Pond  
Houtman  
Karslake, Pat  
Keller Pond-Mc Curry  
Keller Pond -Verplank  
Kenaga  
Kosta Pond  
Koster Pond  
Locey Lake  
Lucie Pond  
Maas, Arlin  
McGraw Mick  
McGregor Pond  
Mckelvey Pond  
Mckinley Pond  
Mohr  
Nelson Pond  
Neubecker Kris  
Neubecker Pond-GR  
Novak  
Ostrander Pond  
Pegg  
Pohl Pond  
Raatz  
Reitz Pond  
Reul, Bob  
Richards, Tim  
Rogue  
Rooks Pond  
Schmitz  
Schuurmans Pond  
Sinke  
Slachter, Eric  
Snyder  
Sparks  
Speet  
Spencer Pond  
Steinacker Pond  
Stekettee Pond  
Stitt Pond  
Sweitzer Pond  
Urban  
Van Bruggen  
Vandenbrink  
Vanderlugt  
Vanderveen  
VanKalker Bob  
Vankeulen Pond

Vanpopering  
Vehlewald  
Vining  
Vonck Pond  
Wagner Pond  
Webb Pond  
West Pond-Rockford  
Wierenga  
Willshire  
Wilmore  
Wilson (BC)  
Windmuller Pond  
Windham  
Winslow Pond  
Winston  
Worgess Pond  
Yancy Pond (Larry)  
Yancy Pond (Rex)  
Zanderbergen  
Zuiverink Pond

### Individual Property Owners

Barlow  
Big Blue Lake  
Big Lake  
Crystal Lake - Newwaygo  
Ford Lake  
Gourdneck Lake Channel #2  
Gull Lake  
Gurnsey Lake  
Hogback Lake  
Leach Lake  
Lime Lake  
Long Lake NW  
Mead Lake  
Murray Lake  
Muskellunge Lake Association  
Payne  
Ratigan Lake  
Robinson  
Sand Lake  
Wabasis - Baker  
White Lake

### Lake Board

Big Brower Lake  
Blue Gill Lake  
Jordan Lake  
Lake Contos  
Long Lake Clare  
Lost Lake (Pleiness)  
Morrison Lake  
Big Crooked Lake  
Big Pine Island Island  
Camp  
Cowden Lake  
Davisburg Mill Lake  
Duck Lake  
Duncan  
Goguac Lake  
Hart Lake  
Houghton Lake  
Lower Scott Lake  
Mitchell Lake  
Messenger/Hodunk  
Pentwater  
Sanford Lake  
Spring Lake  
Winfield  
Wixom

### Marina

Arcadia Lake  
Harborage Marina  
White Bay Marina

### Industrial

Acemco Inc.  
Airport Business Park  
Gentex  
Gordon Pond  
Herman Miller  
Hopkins  
Imcs Pond  
James Street Common  
L&W Pond  
Lakewood 112  
Meadowbrooke  
Metal Flow  
Porter Hills Pond  
Steelcase  
Steelcase Wood  
Tennant Commerical  
Trendway  
Western Michigan University  
Wolverine World Wide  
X-Rite Inc.

### Local Service Provider

Borgess Medical Center  
Bosch's Landscaping  
Bronson Diagnostic  
Cascade Hills Golf  
Creekside Commons Office Park  
Delta Dental  
Eaton Corporation  
Egemin Automation Inc.  
Macatowa Bank Corp. Office  
Fifth Third Bank Corp. Office  
Powerquest  
Rivertown Circle  
Rivertown Crossings  
UAW  
Van Pines Nursery  
Walters Nursery  
Wheeler Dealer  
Whirlpool Corporation  
Wildwood Landscape  
WJQ

### Recreational

Grattan Raceway  
Heritage Glen Golf Club  
Lake Of The Hills  
Lakeside Camp Park  
Moors Golf Course Woodbridge  
PEVP Inc Pond  
Point Of The Woods  
Sandy Pines Resort  
Tyler Creek Golf Course  
Upjohn/Brook Lodge  
Wabasis-Lakeside Mobile Home

### Non-Local Service Provider

Aqua Weed Control  
Marine Biochemists  
M.E.S.A. LLC

### Municipality

Celery Flats Ponds  
City of Walker  
Half Moon Lake  
Huizenga (Zeeland)  
John Ball Zoo  
Old Farm Park  
Park Lake  
Reflection Park Pond  
Richmond Park  
Muskegon Lake



### Apartment Complex

Arbor Lake Apt.  
Kellogg Cove/Oldebrook  
Oldebrook  
Parkers Landing  
Poplar Creek  
Ramblewood

### Retirement Homes

Clark Retirement  
Crystal Manor  
Whispering Woods

### Affiliated Professionals

Applied Biochemists  
Aquatic Biologists  
Cygnet Enterprises  
Outdoor Enterprises  
Osgood Group  
Prein & Newhoff  
Progressive A. E.  
SePRO Corporation  
Summit Laboratory

