

Tishomingo News

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2010 Lake Tishomingo Calendar

Jan	9	Sat	6:30 pm	LTIA Dinner, Ham, followed by BINGO
Jan	12	Tue	7 pm	LTPOA Board Meeting
Feb	6	Sat	7 pm	Trivia Night, page 3
Feb	9	Tue	7 pm	LTPOA Board Meeting
Feb	13	Sat	6:30 pm	LTIA Dinner
Mar	13	Sat	7 pm	St Patrick's Day Dance

Lakeview

by Barb McGlynn, LTIA President

I would like to first of all wish everyone a very Merry Christmas and a wonderful New Year in 2010. And also to thank the past board for all the great time and efforts they have devoted to LTIA.

I know that the year 2010 will be a new experience for me and the rest of the new LTIA board. We are anxious and ready to try to fulfill the duties of LTIA board members by organizing some fun and inviting activities for everyone to participate and enjoy in an effort to raise the money needed for the maintenance of the clubhouse, the wonderful 4th of July Celebration and even more importantly, keeping the camaraderie and fellowship on going in this great wonderful community.

I would like to give a little of background for those who do not know us. I am the new president of LTIA. I moved here in 2001 with my finance Kevin Scheirich. We live on the north side of the lake. Kevin purchased a lot here to enjoy the fishing when he was a young man. After we met and started dating he decided to build a house here and since then we have made this our home and love being here.

Janet Quillman, the new Vice President, and her husband Rick Quillman, the new Maintenance board member, were married here at the clubhouse in September and are presently remodeling their house on the south side of the

lake. They became aware of the lake when their friends Matt and Sue Schweiss told them about some property for sale after Matt heard about some property that borders the lake from a co-worker. When Matt brought Sue to see the property and the Lake Tishomingo, they loved the lake and wanted to build a home here to raise a family. Which leads to the introduction to the new Ways and Means board member, Sue Schweiss.

Julie Johnston, the new Treasurer, and her husband John were introduced to Lake Tishomingo by her boss who had some property for sale and once they came to take a look, decided this is where they wanted to build

their new home. They began building in 1999 here on the North side of the lake and love living here and want to be a part of the greatness of this community. John Johnston is the president of the TAA this year.

We have planned a New Year's Eve party, Bingo after the January meeting, Trivia Night on Feb 6th and a St. Patrick's Day Dance on Mar 13th and will try to get the rest of the calendar completed soon.

We hope to meet and get to know all of you in the coming year and encourage you to join the LTIA to help support LTIA that was founded by the wonderful people who first started a great community organization.

LTIA 2010 Membership

Yes, here is my membership to LTIA for the year 2010.

Membership includes a 1-year subscription to *Tishomingo News*, free classified ads, attendance at LTIA dinners, and children's holiday parties.

Please enclose your check for \$35 payable to "LTIA" and send to:

LTIA Treasurer
 5698 Lake Tishomingo Rd
 Hillsboro MO 63050

NAME

ADDRESS

PHONE

EMAIL

Lake Tishomingo Property Owners Association

LTPOA

President	Chris Townsend	274-2305	chtownse@cbgundaker.com
VP/Communications	Janet Hirsch	285-0813	jhirsch@catenary.com
Secretary	Ann Schatzman	236-9852	bitsy_girl2@yahoo.com
Treasurer	Marilyn Meyer	274-1812	marilynmeier@charter.net
Community Coordinator	Renee Kittel	285-0436	reneemorison1976@yahoo.com
Grounds/Bldgs	Matt Schweiss	274-0584	tishproperties@yahoo.com
Maintenance	Joe Hejnal	274-9192	
Building Permits	John Hindrichs*	285-9057	jhindrichsr@charter.net
Security Coordinator	Rick Hannick*	274-1385	trickyricky@wildblue.net

Committees

Building Permits	John Hindrichs	285-9057	jhindrichsr@charter.net
Dam	Rich Hirsch	285-0813	rhirsch@catenary.com
Finance	Janet Hirsch	285-0813	jhirsch@catenary.com
Gate Cards	Fred Steinmetz	274-2853	steinm@charter.net
Gate Operation	Russ Wilner	285-7919	russ.wilner@gmail.com
Real Estate	Chris Townsend	274-2305	chtownse@cbgundaker.com
Stickers	Rick Hannick	274-1385	trickyricky@wildblue.net
Volunteer Corps	Renee Kittel	285-0436	reneemorison1976@yahoo.com
Water Quality Test	Clarue Holland		mholland01@charter.net
Website/Newsletter	Janet Hirsch	285-0813	jhirsch@catenary.com

*Non-board member

Lake Tishomingo Improvement Association

LTIA

President	Barb McGlynn	636-274-9020	barb.mcglynn@emerson.com
Vice President	Janet Quillman	314-487-1000	servicecontractors@megapathdsl.net
Treasurer	Julie Johnston	636-274-1486	Julie.Johnston@psiind.com
			julie.johnston@charter.net
Ways and Means	Sue Schwiess	636-274-0584	sschweiss@slbfinc.com
Maintenance	Rick Quillman	314-487-1000	

Other Lake Tishomingo Organizations

Lakeside Gardeners	Rich Hirsch	285-0813	rhirsch@catenary.com
Parents Club	Janet Hensel	274-2909	kevinjanet@charter.net
PWSD#13 (Sewer Dist)	Marilyn Meyer	274-1812	marilynmeier@charter.net
Tishomingo Anglers	John Johnston	274-1486	jrjston@charter.net

Classified Advertising Rates

LTIA members, non-commercial listing	no charge
non-LTIA members, each listing	\$ 5

Display Advertising Rates

Business card	\$ 10 per issue	\$ 60 per year
1/4 page	15	120
1/2 page	25	150
Full page	50	300

Next Newsletter Deadline: February 20, 2010

Website: www.laketishomingo.com

The color version of this newsletter is available at the website, laketishomingo.com.

Email

Receive weekly "This week at Lake Tish" email announcements contact Janet Hirsch, jhirsch@catenary.com.

Newsletter

Submit photos, articles, and ads to jhirsch@catenary.com.

Classified Ads

- **'79 Ford Pickup Truck.** 4-wheel drive, 350 engine, camper shell, crew cab, runs good. \$1000. Marco Griffero (636) 285-4464, (314) 776-1118.
- **Lakefront Lot.** O-8. 50 x 150 ft dock and shed. \$20,000. Jim & Lucille Clatto (314) 843-7391. cell: (314) 565-4274.
- **Lakefront Lot.** A-19. \$3,500. Cheryl Blacksher (636) 586-8786
- **Embroidered Lake Tishomingo Sweatshirts.** \$25 each. Gail Lents (636) 274-4245.

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LTIA

TISHOMINGO TRIVIA NIGHT

7 pm Saturday FEB 6

PRIZES AWARDED TO BEST DECORATED TABLE

DOORS OPEN AT 6PM TO DECORATE TABLES

TRIVIA STARTS AT 7PM

\$10 PER PERSON, TABLES OF 8
{ ONLY HAVE 6 OR WOULD LIKE TO JOIN AT TABLE LET US KNOW }

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Barb Rohm
6080 north Lakeshore Drive
Hillsboro Mo. 63050

For more information call Barb Rohm at 274-1977

Table Registered to:

Number of players.

Payment enclosed or pay at the door

Children's Christmas Party

Photos by Gail Lippitt



Mrs and Mr Santa Claus at the Christmas Party. This year the children didn't receive presents -- instead they gave presents to Santa for distribution to needy children. Congratulations and thanks are due to Chyree deRoode and Janet Hensel for decorating, organizing, and hosting this event.

Henry Brym

We are very sad to report the death of long time lake resident Henry Brym, husband of Irma Brym and father of lake resident Regina Eidel.

Henry served as a director on the board of PWSD#13 during the formation of the district.

Henry was a good friend to very many of us here at the lake. He was a frequent volunteer in lake projects, an avid gardener, and very generous with advice, wisdom, and support for lake projects. Henry was a great cook and every day made lunch for workers on several lake projects. This was the highlight of their day.

Henry passed away Nov 20 after a short hospital stay and a battle against lung cancer. He will be greatly missed

Your expressions of condolence can be sent to

Irma Brym
5747 N Lakeshore Dr
Hillsboro MO 63050

or

Regina Eidel
5903 N Lakeshore Dr
Hillsboro MO 63050

Our most sincere condolences go to Irma, Regina, and their entire family.



Henry, at left, helping with the construction of the lakefront seawall February 2006.



Henry, on tractor, spreading grass seed on the lakefront recreation area September 2006.

Missouri Stream Team

by Charlie Lents

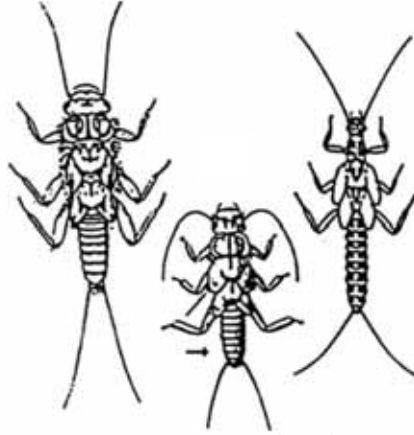
I am trying to round up some volunteers to join the water monitoring efforts of the Missouri Stream Team. I think this would be great for Lake Tishomingo. The "classes" involve two 8-hr days of classroom and lab. That covers the introductory and Level 1. This would be instruction in taking water samples, testing, and identifying little aquatic critters. Sounds like fun. Would you be interested?

At a meeting of the Belews Creek Watershed Management Partnership Monday I received a go-ahead on the proposed water monitoring program proposal for adding Lake Tishomingo to the proposal being put together for monitoring Belews Creek. Assuming that we are awarded the full grant we will be especially interested in what is flowing into Lake Tish from the surrounding area, from our own mainte-

nance yard, from Lake Bono Del, and upstream from there. Participation with Stream Team is the best way to get the sampling equipment (free) and the training.

The LTPOA sponsors lake testing for presence of coliform bacteria. We have volunteers working with the Lakes of Missouri Volunteer Program monitoring water temperature and nutrient levels. Add this Stream Team water monitoring and it should give us a pretty good picture of the health of the lake.

If you would consider joining into this program, access <http://www.mostreamteam.org/> and wander through this site and give me your thoughts (274-4245, clents@charter.net). A few sampling bottles, a few snacks, a jug or two of wine...we could revolutionize the philosophy of water quality sampling.



Pollution sensitive organisms found in good quality water. Stonefly nymph: Order Plecoptera. 6 legs with hooked tips; 2 hairlike tails. Smooth (no gills) on abdomen (see arrow). May have gills on thorax under the legs.



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Lake Tishomingo Property Owners Association

LTPOA Meeting Minutes November 10, 2009

The meeting opened at 7:02 p.m. with the following board members present: Janet Hirsch, Ann Schatzman, Chris Townsend, Marilyn Meyer, Matt Schweiss and Renee Kittel.

President's Report

President Townsend reported the following:

Today the President of the United States of America flew to Texas to pay his respects to the families of the soldiers who were killed in Fort Hood, Texas. The shooter, Maj. Nidal Hasan, alleged to be linked to radical Islam extremist decided to bring a gun in what is normally a gun free zone and start selectively shooting.

Tonight, the state of Virginia will give a lethal injection to John Allen Muhammad, the, "D.C. sniper," who in 2002 decided to take 10 lives.

The similarities are that they had a choice. For Hasan, a known Psychiatrist, should have recognized his problem and went to seek help as he probably prescribed and worked with many times over for others. Muhammad also had a choice to go to the store and buy bullets or go to the VA and seek help. It truly may not be that Black and White but I hope you do get the point(s). Now here is where the fundamentals come in to play....People in Virginia and at other areas of the country have begged for a stay of execution for Muhammad while other people are calling it a long day coming. People in the military and the country are calling for insight and further review to what the government knew of this Major Hasan while others in the world are calling him a warrior!

The point I'm trying to make is we will NEVER all agree! The Lake and the Board is faced with Sewers, current and future Assessments, an in-operable Gate, Grass cutting, building permits, web-sites, cell-towers, vandals, speed-racers, etc. Each decision needing to be handled may be viewed differently as those who interpret the issues on Hasan and Muhammad. The end result from any of these decisions needs to come from open discussions and compromise. In the end the common "good," always prevails.

To further this point on a daily basis at the Bank, in Real Estate, and as President of the LTPOA Board is to weigh, calculate, and eliminate "Risk." Therefore, there will always be people who agree and disagree with my, or the Boards' decision(s) or action(s). I firmly believe that we all knew that going in to this post, and again, I feel the common "good" will prevail for the benefit of all Property Owners. I feel on some of these issues we have worked well together and others we still have compromise to attend to.

Going in to the next coming months I encourage the people of the Lake to attend a meeting for either LTPOA, LTIA, Parent's Club, Garden, or any other stated upcoming event to give their insight on how to make their own little piece of heaven, Lake Tishomingo, a better and safer place to live. Happy Thanksgiving, Merry Christmas, Happy Chanukah, and Happy New Year!

Motion to approve October minutes was made by Janet Hirsch and seconded by Marilyn Meyer. Motion passed.

Treasurer's Report

Marilyn Meyer, Treasurer, reported for October. The Financial Report for October is listed separately. Motion to approve the Financial Report was made by Janet Hirsch and seconded by Joe Hejnal. Motion passed.

Marilyn presented the following bills for payment:

Income Tax	\$1,268.00
Personal Property Tax for Lots Owned	\$403.83
Personal Property Tax for Equipment	\$1,099.78
Newsletter - Nov/Dec	\$242.22
Stryker Security	~\$1,700
(haven't received bill yet)	

Columbia Insurance Quarterly	\$735.00
Nova Construction	\$3,000.00 (partial payment)

Motion to approve bills was made by Joe Hejnal and seconded by Janet Hirsch. Motion passed.

Building

Joe Hejnal reported on the construction of the extension (extended 6ft.) to the maintenance shed. President Townsend would like the board to review Nova's initial proposal and compare with the work that was done to make sure it was done to spec.

Maintenance

Marilyn Meyer thanked Matt Schweiss for cleaning the roads and ditches after all the big rains.

Matt Schweiss reported that some of the roads on the South side of the lake need to be patched before the weather gets cold.

LTIA REPORT

Mary Leiweke reported for the LTIA. The upcoming LTIA events are:

Thanksgiving Dinner is next Saturday.

LTIA Nominations/Elections are this weekend and a good group of people are in the running for the board - the old board will start the meeting next month and the new members will take over after election

Christmas Caroling - December 12 at 5:00 p.m. - will collect can goods for food pantry

Chili Cook-off - December 12 at 6:30p.m.

Children's Christmas Party - December 13 at 1:00 p.m.

Finance Committee

Nothing to report.

Web Site & Newsletter

Janet Hirsch reported that the minutes of the last meeting are on the website and the website was updated with the color version of the newsletter. The newsletter was mailed on November 2 and the next issue deadline is December 20, 2009.

Community Coordinator

Renee Kittel reported that the Angler's Association has an invitation for the St. Louis Skeet and Trap in Pacific at 11:00 a.m. on December 5 for one round of sporting plays. Bring a gun and 4 boxes of shells for \$35. Contact John Johnston for information.

Parent's Club

Nothing to report.

Garden Club

Nothing to report.

Sewer Committee

Janet Hirsch reported on the sewer project. Janet stated that we are still waiting for approval of plans by USDA-RD and the district is working on administrative items such as writing ordinances for sewer use and sewer charge and setting up bookkeeping systems and hiring a CPA for audits. If there is anyone who would like to help the district with any of these items, they would really appreciate it.

Gate

Russ Wilner reported on the gate function. Four vehicles were struck by the ingate or the outgate arm in the last month. Two of the vehicles will need repairs, paid for by the Lake and the Lake's insurance. The last person whose vehicle was struck by the gate arm was able to remove the yellow paint left on his vehicle. The gates have intermittently gone into "dance" mode and have reached a point of being unreliable. So the Gate Committee decided that it would be best to leave the gate arms up until the

equipment can be updated. Even if the current problem with the gates could be fixed, there are enough other problems (difficulty in accessing the gate computer via telephone, gate occasionally locks up for no reason, gate real-time clock doesn't work), that the system really does need to be updated.

Janet Hirsch stated that the Gate Committee looked at the software for one updated gate system and it was not as flexible and easy to use as the current software. More research needs to be done on the different gate systems and software that's available. All systems seem to be competitively priced at approximately \$12,000. We have money in the budget to pay for the gate upgrades.

Rich Hirsch stated that the limit switches were most likely causing the gate to go into "dance" mode. Dance mode is when the gate cycles up and down continuously.

In the interim, it was decided that an insulated round PVC pipe would be used as a gate arm to cushion it and prevent any problems that might arise out of the gate striking a vehicle. Gate Committee member Mike Leiweke volunteered to sketch the new bracket that needs to be made and send it out to a shop for construction.

Security

Rick Hannick read aloud his November Security Report:

Just a couple of items to report this month.

There have been no security-related incidents that I am aware of with the exceptions of the gate problems that I know you are already dealing with.

I cut the guard's hours to 12 per week, effective the weekend of October 17-18, so the lower hours should be reflected in the

October billing cycle from Stryker. I contacted seven security companies by phone, and two more by e-mail regarding our need to replace Stryker Security at the beginning of next year. That was two weeks ago, and not one of them has responded with a bid. I guess no one wants to provide part-time security for us. Any suggestions?

Respectfully submitted
Rick Hannick

It was suggested to call Raintree and Wauwanoka to see what company they are using for their community's security.

New Business (Floor)

Rich Hirsch reported that the portable toilet has not been picked up yet. It was supposed to be gone on October 24 and we should not have to pay for the extra time it has been here.

New Business (Board)

Janet Hirsch reported that in A-13 there is a submerged motor boat which is a hazard for boaters and an environmental hazard that is sticking out of the water. The owner of the lot is in a nursing home. President Townsend stated that he would call the owner's children to check the status and see what the board could do to help remove the boat from the water.

There being no further business, a motion was made by Marilyn Meyer and seconded by Joe Hejnal to adjourn. Motion passed. The meeting concluded at 8:01 P.M.

Respectfully submitted,
Ann Schatzman
Secretary



LTPOA Meeting Minutes December 8, 2009

The meeting opened at 7:00 p.m. with the following board members present: Joe Hejnal, Janet Hirsch, Ann Schatzman, Marilyn Meyer, Matt Schweiss and Renee Kittel. President Chris Townsend was not present at this meeting.

Motion to approve November minutes was made by Marilyn Meyer and seconded by Joe Hejnal. Motion passed.

President's Report

President Townsend was not in attendance to present his report.

Treasurer's Report

Marilyn Meyer, Treasurer, reported for November. The Financial Report for November is listed separately.

Motion to approve the Financial Report was made by Joe Hejnal and seconded by Ann Schatzman. Motion passed.

Marilyn presented the following bills for payment:

Stryker Security	\$984.00
Annual Postage Permit	\$785.00
IRS	\$63.53
Century Insurance Deductible	\$500

Motion to approve the above bills was made by Joe Hejnal and seconded by Ann Schatzman. Motion passed.

Building

John Hindrichs reported on a potential project on the north side in O-cove. The property owner would like to build a parking pad and wanted to know if it had to be paved. John told him that it would need to be paved upon completion and to submit his building permit.

Maintenance

Joe Hejnal reported that the snow plow is ready to be used.

Joe also stated that he spoke with Kevin Seelbach and Kevin is applying for the permit to install the electric service in the new maintenance shed. Joe mentioned that he spoke with the builder of the new addition on the maintenance about the question of the footing. The builder told Joe that they went deep enough to hit solid rock and it is secure.

Matt Schweiss reported that it is too cold to do anything with the repair of the roads and that it will be an additional \$3,200 to address the issues and we should wait on the project until the spring or summer.

Joe and Matt discussed the bobcat and how the buckets are rusted due to the salt usage. Joe stated that the bobcat was power washed each time it was used last winter and they agreed that the bobcat should be power washed after each use as a standard procedure.

Matt also stated that the perimeter of the roads needed to be addressed and would like to rent a bush hog in the next couple of months before spring.

LTIA Report

Nothing to report.

Finance Committee

Nothing to report.

Community Coordinator

Nothing to report.

Parent's Club

Nothing to report.

continues on next page

*LTPOA Minutes continued from previous page***Garden Club**

Janet Hirsch reported that the Garden Club decorated the sales office and all their efforts are greatly appreciated. The Garden Club did a wonderful job.

Sewer Committee

Janet Hirsch stated that there has been no progress and the sewer board is still waiting approval from USDA-RD for the plans and once approval is received, we will move forward and put the project out to bid.

Gate

Russ Wilner reported there has been no trouble with the gate since the gate has been up and that the board has obtained a couple of bids for a new gate.

Janet Hirsch stated that a motion should be made to approve the expenditure for a new gate. Joe Hejnal made the motion to approve the purchase of the new gate and Marilyn Meyer seconded the motion. Motion passed.

Renee Kittle stated that she would be able to get a discount through her employer for the same gate that the board has been looking at.

Marilyn Meyer made a motion to replace the windshield in Regina Eidel's car up to \$300 which was damaged by the gate. Joe Hejnal seconded the motion. Motion passed. Regina should submit the bill for the repair of her windshield to the board.

Security

Rick Hannick read aloud his security report for December.
DECEMBER 8, 2009 SECURITY REPORT

Still peaceful, I'm happy to report. I received one report of a possible prowler on the north side last month, but there have been no further reports regarding this incident.

As you know, we will lose Stryker Security after Dec. 31. I have had no success in generating interest from other security companies. I am waiting for a call back from Raintree regarding their efforts to find a replacement for Stryker. It would seem

that no one is interested in only working Friday and Saturday evenings, and only 10 or 12 hours per week. Maybe we will have to do without a guard until spring when we increase the hours to 24 hours/week. The increased hours might then encourage some company to bid for a contract with us.

Hopefully, the security gate will be fully operational by the end of the year, and I would again like to encourage the board to close it 24/7.

Respectfully submitted

Rick Hannick

New Business (Floor)

Rich Hirsch stated that the propane tank for the community house is empty and must be refilled. Refilling the propane tank is the responsibility of the LTIA. The members of the LTIA that were present at the meeting said they were on top of it. There being no further business, a motion to adjourn was made by Joe Hejnal and seconded by Marilyn Meyer. Motion passed. The meeting concluded at 8:07 P.M.

Old Business (Floor)

Friends and family of Matt Schweiss addressed the board with their questions and comments about the cell tower.

Property owners can listen to the audio file of this evening's meeting at www.laketishomingo.com

LTPOA

LTPOA BoD Mtg Minutes

Last BoD meeting wav file*

Respectfully submitted,

Ann Schatzman,

Secretary



**[The best way to listen to a wav file is to right click on the link then select "save link" or "save target." This will download the file to your computer. After the file is downloaded to your local computer you can listen to it at your convenience. - jmh]*

October 31, 2009 Financial Statement**Cash Inflow**

Delinquent Assessments 2009-2010	6,684.32
Gate Passes	10.00
Interest	54.98
Total Cash Inflow	6,749.30

Cash Outflow

Lakenan Insurance CAP, Directors, Officers	1,951.00
Lakenan Insurance General Liability	4,552.80
Dennis Tesreau, 3rd Quarter	543.75
Newsletter, Sept. and Oct.	235.79
Mo. Employers Mutual Insurance	927.00
Scenic Rivers Boats and Motors	290.00
Portable Toilet	90.00
Stryker Security	1,762.00
Dale Wallen, Lawn Service	610.00
Nova Construction, Maintenance Building	3,000.00
Utilities	117.20
Total Cash Outflow	14,079.54

Checking Account Balance 162,230.43

November 30, 2009 Financial Statement**Cash Inflow**

Delinquent Assessments 2009-2010	1,915.12
Interest	54.11
Total Cash Inflow	1,969.23

Cash Outflow

Columbia Ins. Quarterly	735.00
Income Tax	1,268.00
County Taxes Personal and Property	1,503.61
Stryker Security	1,515.00
Nova Building (Maintenance Addition)	3,000.00
Newsletter Nov. Dec. Issue	242.22
U.S. Post Office Stamps	17.60
Utilities	115.13
Total Cash Outflow	8,396.56

Checking Account Balance 155,803.10

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Reprinted from *The Water Line*, Newsletter of the Lakes of Missouri Volunteer Program

Red Algae

by Tony Thorpe, Coordinator, Lakes of Missouri Volunteer Program

If your lake takes on the rich, deep red color of wine in autumn, don't immediately run to the store for cheese and crackers. What you are witnessing is probably an algae bloom. *Planktothrix rubescens* (formerly known as *Oscillatoria rubescens*) is a species of blue-green algae (a.k.a. cyanobacteria) that can have a very distinctive red color. Additionally, the cells can attach end-to-end and may form filaments of several millimeters in length, making them easily visible to the naked eye. During winter this algae may even seep through fissures in the ice, creating colorful "flowers" across the lake's surface.

For much of the year *P. rubescens* resides near the metalimnion, that transition area between the warm epilimnion and the colder hypolimnion (see "Lake Stratification" below). *P. rubescens* blooms are frequently reported in fall when lake temperatures cool and the water column starts mixing deeper. This change in lake thermal structure doesn't necessarily promote the bloom of *P. rubescens*, but rather moves the bloom from the metalimnion to the surface. The colorful algae become apparent once this metalimnion has mixed with the cooling surface layer of the lake.

Like many blue-greens, *P. rubescens* is capable of regulating its buoyancy, effectively moving itself up and down within the water column. When high in the water column they receive enough light to photosynthesize.

During photosynthesis, they produce dense carbohydrates that eventually weigh the cells down, causing them to sink. Once in deeper water (sometimes the hypolimnion) where there isn't enough light to photosynthesize, *P. rubescens* will respire, using the carbohydrates for energy, thus lightening their load. A by-product of their respiration is the expansion of their "gas vacuoles". Eventually, with enough respiration, the gas vacuoles increase buoyancy enough to lift the algal cell back up in the water column.

P. rubescens has adapted to life in the summer metalimnion by tolerating cool temperatures and low light. The cool, dark and deep water of the hypolimnion tends to have more nutrients, thanks to settling particulates and the release of nutrients from the sediment (see "Phosphorus From Within" Fall 2006 *Water Line*). While in or near the hypolimnion, *P. rubescens* takes advantage of the higher nutrient levels by stocking up. Thanks to its tolerance of low-light conditions, *P. rubescens* has an advantage over the algae that are restricted to the epilimnion where nutrient concentrations are lower and competition is higher. Even during turnover, when the water column is mixed, this blue-green competes well under low-nutrient conditions. As a result, its presence in lakes with low nutrient concentrations can be prolonged, highlighting the contrast between the clear water state before turnover and the sudden, startling appearance of the red bloom.

P. rubescens is capable of producing two kinds of toxins; a neurotoxin (which affects the nervous system) and a hepatotoxin (which affects the liver).

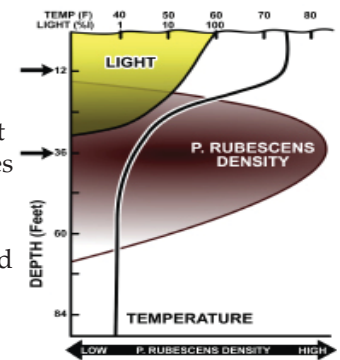
However, *P. rubescens* does not produce these toxins at all times. It is not well understood why *P. rubescens* or other blue-green algae sometimes produce toxins. To be safe, avoid swimming during any algae bloom, red or green.

Density of *P. rubescens* During Stratification

This graph shows three variables (temperature, light, and *P. rubescens*) as they relate to lake depth. The top and bottom of the graph represent the surface and bottom of the lake, respectively.

The topmost arrow is at the Secchi depth, 12 feet. About 20% of the sun's light penetrates to this depth. The temperature is the same as at the surface (about 74°F), and there is no red algae present.

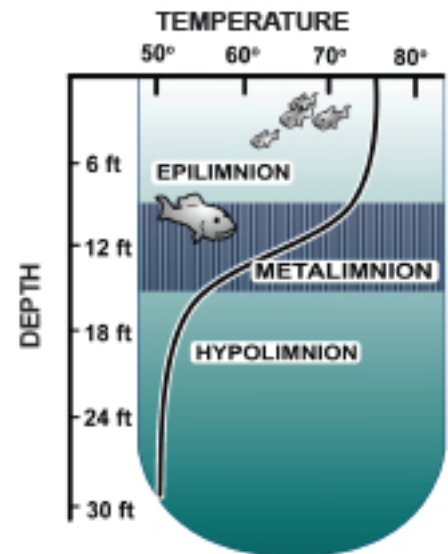
At 36 feet (the second arrow), there is no sunlight, the temperature is much cooler (about 40°F) and the density of *P. rubescens* is the highest. This depth marks the bottom of the metalimnion, where there is likely access to a supply of dissolved phosphorus from the nutrient-rich hypolimnion.



Lake Stratification

Many people, especially fisherman, have heard of "turnover," which occurs when lake water mixes from the surface to the bottom. Less well known is what is happening during the rest of the year. When a lake isn't "turning over" it becomes stratified.

A volume of water is heaviest at 39.2° F, just above freezing. The same volume of water becomes lighter as it warms and rises to the surface, leaving the colder water at the bottom (except in winter — see below). As the sun continues to heat the water at the top, the difference in temperature (and density) between the top and bottom water becomes greater. Eventually there are two distinct layers, the epilimnion at the top and the hypolimnion at the bottom.



Thermal profile of a lake in summer.

continues on next page

Public Water Supply District #13



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Lake Tishomingo Community Sewer Project

by Janet Hirsch

Approval of Plans & Specs

All of the sewer design plans and specifications have been submitted and we are awaiting final approval from MO DNR and USDA-RD, our funding agencies. Shortly after the plans are approved the project will be advertised for contractors to bid on.

As reported previously MO DNR has approved the plans. USDA-RD is still reviewing the plans and has asked for changes. The changes have been made and the plans resubmitted and our engineers await additional comments. Construction was previously estimated to begin mid-November, but the USDA review of the submitted plans has taken a very long time. We expected one to two months for the entire review to be completed, but so far it's been six months. So the schedule will be pushed back even further. We estimate that construction will begin no sooner than April or May 2010.

Electrical Circuits

We are close to having the specification for the electrical circuit required at each residence and believe it will be:

Circuit: 120v 20amp dedicated circuit terminating in a service disconnect in a NEMA 3R enclosure.

Access Road

The District is seeking to gain access to the wastewater treatment plant site using a temporary construction road off Regina Rd. If we do this we avoid having construction vehicles drive across the dam and eliminate much of the congestion and wear due to construction vehicles on N. Lakeshore Dr. Negotiations continue with the property owner.

Administrative Tasks

The District has to establish an accounting system for receiving funds from the USDA and MO DNR and for paying the contractors. We have arranged for a CPA firm for audits and an accountant to help set up the bookkeeping system.

The District needs someone to do the billing and bookkeeping. This represents an opportunity for part time work for a lake resident. It is a work-at-home paid position. Requirements are a computer with internet access and experience with Microsoft Word and Excel. Accounting or bookkeeping experience is a plus. If interested please contact Marilyn Meyer.



Lake Stratification continued from previous page

Between these two layers is a third, less distinct, transition layer called the metalimnion.

These layers generally hold until autumn, when the surface water cools.

Often in the summer, the hypolimnion will become depleted of oxygen. The bacteria responsible for decomposition consume the oxygen and access to atmospheric oxygen is cut off by stratification.

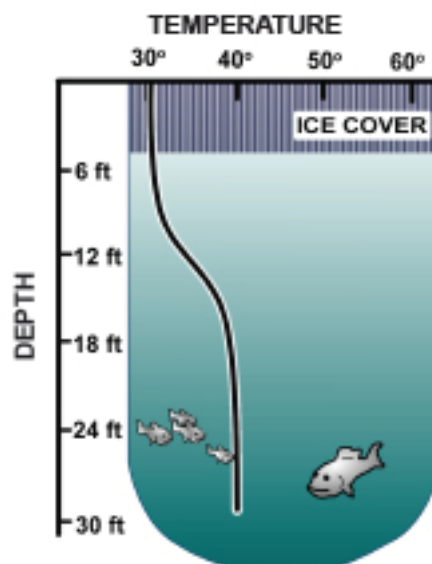
Water Freezes from the Top Down

One would assume that if water becomes more dense as it gets colder, it should freeze from the bottom up. As explained earlier, however, water is most dense at 39.2° F, which is warmer than freezing. So as water continues to cool from 39.2° F, it becomes less dense and rises to the top, leaving the slightly warmer water below.

At the surface, the cool water is exposed to freezing air temperatures and may eventually freeze. Once ice forms, the water beneath cannot be mixed by the wind.

When the ice melts in the spring, the entire water column will be at approximately 39.2° F for a brief time. The lake will mix thoroughly ("turnover") with just a bit of wind. A calm, warm day can heat the surface water and initiate the stratification process.

Stratification may also occur due to changes in salt content as well as temperature. Oceans, particularly in places where freshwater enters, may be stratified by salinity. The problems with Gulf Hypoxia may be attributed partially to the inability of the dense and salty bottom water to mix with the oxygen-rich, less salty water above.



Thermal profile of a lake in winter.



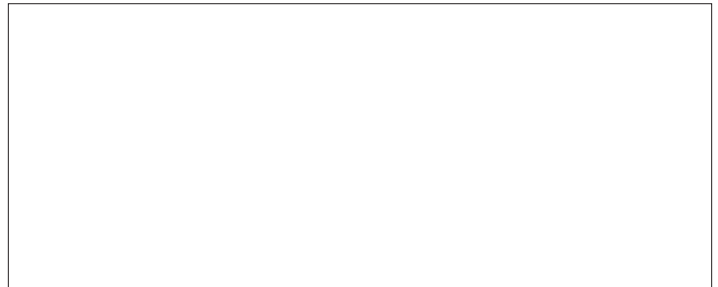
Lake Tishomingo Property Owners Association
5699 Lake Tishomingo Road
Hillsboro MO 63050

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In October the Parents Club and kids helped plant spring bulbs in the mini-park near the bus shelter. It was at this event the kids decided to give presents to Santa for distribution to needy children.

ADDRESS SERVICE REQUESTED



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Prime Properties

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Office 636.797.4770

Lake Resident - Lake Knowledge - Lake Sales
www.mikehiggins.com

7784 Meadow Dr., 7722 Mohawk Trail, 6751 S. Lakeshore Dr., 6435 S. Lakeshore Dr., 7706 Mohawk Trail, 6139 S. Lakeshore Dr., 7663 Fairview Dr., 6482 S. Lakeshore Dr., 6308 N. Lakeshore Dr., 5724 S. Lakeshore Dr., 7840 Mohawk Trail, 6016 N. Lakeshore Dr., 6051 S. Lakeshore Dr., 7813 Mohawk Trail, 6479 N. Lakeshore Dr., 6709 S. Lakeshore Dr., 7764 Fairview Dr., 7744 Mohawk Trail, 6072 S. Lakeshore Dr., 6112 S. Lakeshore Dr., 5783 S. Lakeshore Dr., 5929 S. Lakeshore Dr., 6355 S. Lakeshore Dr., 6080 N. Lakeshore Dr., 5933 S. Lakeshore Dr., 5700 S. Lakeshore Dr., 7728 Meadow Dr., 6223 S. Lakeshore Dr., 7676 Lakeview Dr., 7801 Mohawk Trail, 6786 S. Lakeshore Dr., 6825 Westwood, 5790 N. Lakeshore Dr., 7828 Mohawk Trail, 6208 N. Lakeshore Dr., 5783 S. Lakeshore Dr., 6541 S. Lakeshore Dr., 6367 S. Lakeshore Dr., 7768 Meadow Dr., 6541 S. Lakeshore Dr., 7696 Lakeview Dr., 5783 S. Lakeshore Dr., 6308 N. Lakeshore Dr. and Lots & lots of lots!

If you're thinking of selling, now is the time to get your home ready to market! Any painting, carpet cleaning, closet cleaning & yard cleanup, now's the time to do this! I have buyers looking for homes. They want to be moved in fast to enjoy the lake. Call me for a current price on your home & marketing plan to sell it fast!