

The Gravel Laker

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www.gravellake.org

Fall, 2011



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President's Corner

The Gravel Lake Association relies on several factors for its survival and success. Aside from a dues paying membership which, incidentally, poses a great opportunity for expansion, the association requires both volunteerism and feedback. In the past few years, we have been especially fortunate with our level of volunteerism. Vacant trustee positions, appointed officers, and committees have been eagerly filled. Through the years, we've had the advent of VERY dedicated officers and trustees who spend much of their personal time attending meetings, researching topics of importance, and making sure the work of the association gets done. Their work allows us to control our weed population, produce newsletters, stock fish, maintain a website, monitor water quality, help dredge the mouth of the channel, help maintain the Strawberry Lake drain, have an assortment of 4th of July events, as well as many other activities and efforts. Without such devotion the association would fade and the quality of Gravel Lake would certainly suffer. Despite such luck, we can always use more help. If you're interested in getting involved in what must be your favorite community, I PROMISE to find a way you can contribute! Even if the area you're interested in is already "covered", don't let that stop you! Extra help is always welcome.

Continued on next page

President's Corner (continued)

In contrast to healthy volunteerism, the Gravel Lake Association is not nearly so rich in the amount of feedback it receives from its members. Yes, there are a good handful of you who heap praise upon the association. Even smaller is the group of you who provide constructive feedback. To the aforementioned groups: thank you for communicating, please continue to do so, and please be specific. To the rest of you, please let us know how we're doing. Tell us what you like and why. Tell us what you don't like and why. Tell us what you'd like to see and why. If you've got a good idea, we'll try to see it through, but don't be surprised if I ask you to help out (I've got to keep that promise above!). You can email me directly with your comments, questions, and concerns. Alternatively, talk to your beach trustee or any trustee or officer and they will relay your feedback to the board of trustees.

Thanks for your continued support!

Craig DeSimone
President - Gravel Lake Association



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Seasonal Fish Mortalities (Fish Kills)

Dead and dying fish are an ugly sight. Truth is, most species of fish are relatively short-lived and have a high rate of mortality. Even large fish, too large to be eaten by predators such as bass and pike, experience a death rate of approximately 50% per year. Fortunately, the deaths are usually spread-out over the year and are rarely observed or become a problem except when concentrated as a fish kill. Only a fraction of the dead fish are ever observed because many decompose on the bottom of the body of water or are eaten by scavengers such as turtles and crayfish.

Most of the time, fish kills are due to natural causes over which we have no control, such as weather. Only occasionally is death directly related to pollution or improper use of herbicides or other chemicals. Natural fish kills are of three basic seasonal types: winterkill, which occurs in late winter but may not be seen until early spring; spring kill, which occurs in late May to early June; and summer kill, which occurs on the hottest days of midsummer.

Winter Kill

Winterkill is the most common type of fish kill. When severe, it has devastating effects on fish populations and fishing quality. Fish actually die in late winter, but may not be noticed until a month after the ice leaves the lake because the dead fish are temporarily preserved by the cold water. Winterkill begins with distressed fish gasping for air at holes in the ice and ends with large numbers of dead fish which bloat as the water warms in early spring.

Actually, the fish suffocate from lack of dissolved oxygen. During periods of prolonged ice cover, the lake is sealed off from the atmosphere and cannot be recharged with oxygenated air. Furthermore, ice and snow reduce the amount of sunlight reaching aquatic plants, thereby reducing photosynthesis and oxygen production. (For more information, please read the full article as cited below.)

Spring Kill

Spring kill occurs in lakes and rivers when fish survive the winter but die as the water warms rapidly in May and June. It rarely claims many fish and is usually over in a couple of weeks. Spring kill is almost always due to natural causes beyond our influence. The usual victims are large bluegills and crappies, and other fish which spawn in the spring such as perch, bass, pike and suckers.

A combination of stresses is usually responsible. Fish come through the winter in a weakened condition because they've been eating at a reduced rate. As the water warms, their metabolism increases and they divert much energy to strenuous spawning activities. In lakes, additional stress may be added during "turnover", which is when wave action stirs up bottom water low in oxygen and high in noxious gases. Diseases and parasites also become more active and on a few occasions have been implicated in fish kills.

Seasonal Fish Mortalities (Fish Kills) (continued)

Summer Kill

Summer kill occasionally occurs in lakes and streams during extremely hot summer weather. High temperature and low dissolved oxygen combine to stress the fish. Most prone to summer kills are pike, perch, suckers, bass, and bluegill living in shallow, productive lakes or bays with excessive amounts of algae or rooted aquatic vegetation. The plants consume large amounts of oxygen at night, causing a temporary shortage of the vital gas just before dawn. A cloudy, calm day extends the critical period by reducing re-oxygenation from photosynthesis and wave action. Apparently, fish in the oxygen-depleted areas do not sense the danger and thus they don't swim to safety in time. A very unique type of fish kill is caused by a lightning strike on water. Death occurs immediately. Large fish, which draw more electricity than small fish, may be killed selectively.

Conclusion

The risk of some types of fish kills can be reduced by keeping as many nutrients out of the water as possible. Sources of nutrients include septic fields, fertilized lawns and farm fields, and wastes from livestock and waterfowl (including tame geese). Reducing nutrient input starts the following favorable chain reaction: production by aquatic plants is reduced, less decomposition is required, and oxygen will not become depressed to critical levels.

Natural fish kills are obnoxious, and may affect fishing and predator-prey "balance" for years. However, they are often not serious in the long run because lakes contain thousands of fish per acre. They may be thought of as nature's way of thinning out fish populations. Usually, fish kills indicate that the habitat is of marginal quality for certain species because of the broad range of weather conditions we experience in Michigan.

Infrequently, fish kills indicate habitat or pollution problems we may be able to correct. And sometimes, fish kills beneficially reduce over-populated, slow-growing panfish and actually increase growth rates and improve fishing.

Please e-mail information regarding all fish kills to DNR-FISH-Report-Fish-Kills@michigan.gov.

If you suspect a fish kill is caused by non-natural causes, please call your nearest DNR location or Michigan's Pollution Emergency Alert System (800) 292-4706.

For the complete article on Seasonal Fish Mortalities, please visit <http://www.michigan.gov/dnr/0,1607,7-153-10364-119822--,00.html>.

Taken from (and abbreviated):

Schneider, James. "DNR - Seasonal Fish Mortalities (Fish Kills)." SOM - State of Michigan. Fisheries Division, Apr. 1996. Web. 04 Aug. 2011. <http://www.michigan.gov/dnr/0,1607,7-153-10364-119822--,00.html>.

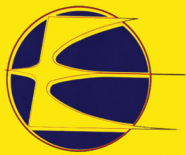


4th of July 2011

This year's 4th of July events were a ton of fun! We had the biggest turn-outs yet for the Fun Run, Kids Games, Paddle Boat Regatta, and Boat Parade. Thanks to all who participated and volunteered their time. And thanks to the GLA for putting on fun events for the residents of Gravel Lake.

We are currently looking for someone to take charge of the 2012 Boat Parade. It involves deciding upon a theme, judging, and gathering prizes. Please contact Craig DeSimone if you are interested.

Please send any pictures from the 4th of July to Jim McGreal and they could appear in upcoming issues of the Gravel Laker or the website!



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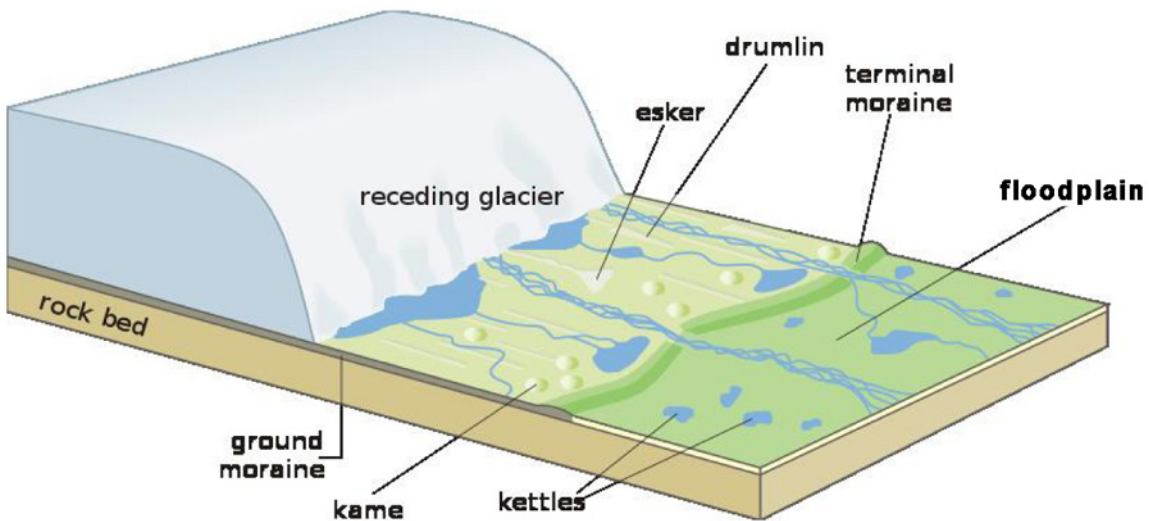
Limnology II – The Formation and History of Lakes

"Education is not the filling of a pail, but the lighting of a fire."

-William Butler Yeats

Education about the filling of a glacial kettle, though, what is that?

The Great Lakes and smaller regional lakes are the result of glacial activity during the last ice age thousands of years ago. The glaciers had advanced in lobes of soft shales, salts and sandstone that were easily displaced by the glaciers to form the Great Lakes, against areas of resistant bedrock that would become the peninsulas that remain today. The Wisconsin glacier advanced as far south as Valparaiso and Fort Wayne, Indiana, as evidenced by terminal moraines (stretches of accumulated glacial deposits) still observable in these areas, where around 14,500 years ago, the glacier stopped advancing and began to retreat.



Picture source: http://en.wikipedia.org/wiki/File:Retceding_glacier-en.svg

As glaciers advance, they tear away rock and soil, and as they retreat, they deposit these sediments along with chunks of ice along their path. The resulting terrain is full of depressions cut by the actual glacier (like the Great Lakes), depressions formed when buried chunks of ice melt (known as kettles), and lakes formed where glacial deposits have blocked an existing stream, acting as a natural dam. Over time, these depressions fill with water and sediment to form lakes as we know them.

Continued on next page

Limnology II – The Formation and History of Lakes (continued)

A lot can be learned about a particular lake's history by looking at the sediment that has accumulated in it. Paleolimnology is the study of lake sediments. By looking at the composition, radioisotopes like lead-210 and carbon-14, paleolimnologists can accurately age strata of sediments. Chemical analysis can infer various qualities of the lake throughout history including acidity, water clarity, and algal productivity by looking at diatom abundance and concentration, and chlorophyll content. Human impact on the lake ecosystem can be assessed by looking at these and other variables in a historic context. For instance, the content of heavy metals can directly indicate pollution, and pollen type and content can infer other phenomena like soil erosion and deforestation.

So although knowing its origins will not change the way we enjoy Gravel Lake, it is arguably worth knowing. It is interesting to think that you are floating on the top of the groundwater that has filled the gap left in the earth by a chunk of ice that melted some 12,000 years ago.

Marc Mascarello, Contributing writer


Sources:

<http://www.epa.gov/owow/watershed/wacademy/acad2000/pdf/limnology.pdf>

http://www.emporia.edu/earthsci/student/damery1/gl_form.html

For a full primer of limnology, visit: <http://www.epa.gov/owow/watershed/wacademy/acad2000/pdf/limnology.pdf>

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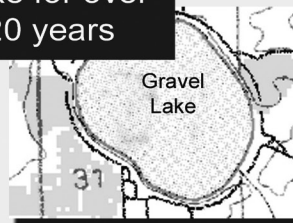


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Michigan Lakes & Streams Association (MLSA) Membership

Michigan Lake and Stream Associations, Inc. is a non-profit, state-wide organization dedicated to the preservation, protection and wise management of Michigan's vast treasure of inland lakes and streams. We achieve our mission by supporting riparian associations as well as the collective and individual educational, stewardship and conservation initiatives of our members which include lake and stream associations, concerned citizens, commercial and non-profit businesses as well as our public and private collaborative partners.

Michigan Lake and Stream Associations, Incorporated (ML&SA) is a 501(c)3 non-profit corporation made up of organizations, corporations, associations and individuals who share our goal of preserving and protecting Michigan's vast heritage of freshwater resources. The corporation was created in 1961 and now includes over 300 individual members, and more than 250 lake, river and stream associations whose aggregate statewide membership exceeds 100,000.

The primary goal of ML&SA is to assist lake, river and stream and watershed associations as well as individual riparian property owners in water resource friendly techniques and methods of protecting their investment in waterfront property.

Membership in Michigan Lake and Stream Associations, is open to any individual, lake, stream, or watershed association, organization, or corporation who shares our interest in preserving the high quality of Michigan's inland lakes and streams for future generations.

What the MLSA does:

1. We sponsor and arrange workshops, meetings and seminars in order to provide our membership and concerned citizens with timely information about the use and wise management of Michigan's inland lakes and streams.
2. We produce and distribute educational brochures that identify and suggest actions lake associations and local units of government may take to prevent water quality degradation.
3. We promote, encourage and enable lake associations and individuals in measuring the physical, biological and chemical parameters of inland lakes by administering the MICorps Cooperative Lakes Monitoring Program (CLMP), a collaborative partnership led by the MDEQ.
4. We inform lake, stream and watershed associations of state land and water use regulations that directly affect Michigan citizens and the recreational users of our water resources.
5. We encourage waterfront property owners and members of the public to learn about the impacts of recreational water use on aquatic plant and animal populations in lakes and streams.
6. We promote the creation of lake and stream riparian associations as a means of collectively addressing issues relative to the preservation and protection of our freshwater resources.
7. We maintain copies of local and state court decisions which define and affect riparian property rights and water law in Michigan.

All information taken directly from <http://www.mymlsa.org/>. For more information, visit <http://www.mymlsa.org/>.



Michigan Lake and Stream Associations. Inc.

306 East Main Street, Stanton, Michigan 48888
Phone 989-831-5100 e-mail: info@mlswa.org
www.mlsa.org www.micorps.net



2011 INDIVIDUAL MEMBERSHIP APPLICATION / RENEWAL FORM

**Annual Membership dues are \$35.00 and includes a
one year subscription to The Michigan Riparian magazine**

PLEASE PRINT

Name _____

Address _____

City _____ State _____ Zip _____

Date _____ Phone (_____) _____ Email _____

☐ New Member ☐ Renewal

Check or Money Order # _____ Amount \$ _____

☐ MasterCard ☐ Visa ☐ Discover ☐ American Express Amount \$ _____

Credit Card # _____ / _____ / _____ / _____ Exp. Date _____

Signature as it appears on credit card _____

Make Checks Payable To: ML&SA

**Mail To : MICHIGAN LAKES AND STREAM ASSOCIATIONS
306 East Main St.
Stanton , MI 48888**

**Michigan Lake and Stream Associations, Inc. is a qualified 501(c)3, non-profit
organization. Please consider making an additional donation which will be
deductible on your itemized federal and state income tax returns.**

For ML&SA Office Use Only

2011 Membership Receipt for: _____

Assn. No. _____ Date Rec'd. _____ Check No. _____ Amount \$ _____

Michigan Lake and Stream Associations

50 Years of Working with You as a Partner to Protect our Water Resources for Future Generations

WWW 11

The 2011 Gravel Lake Social

The Gravel Lake Association would like to thank the following businesses and individuals for their generous donations to the 2011 Gravel Lake Social:

Shedd Aquarium
Wakeside Marine
Apollo Marine
Craig Benes - Willow Beach
Herb & Penny Eggers - Gebhard Beach
John Faustino - Winkler Beach
Paul & Judy Galassi - Winkler Beach
Industry Tanning & Salon
India Jenkins
Joe Laski - Dugan's Landing
Mike Mascarello & Sharon Sedgwick - Willow Beach
Meyer Wood Products
Kerry Moore & Ryan Stewart - Sandy Beach
Chris Oxley - Dugan's Landing
Dave Paramski - Huff's Landing
Shel Paris
Rebecca's Natural Nails - Sandy Beach



The Gravel Lake Association would also like to thank its Social Committee volunteers, The Drop Anchor Tavern, and all attendees for making this year's event another success!

Our unique electric powered boats can be found all over the world from resorts and hotels to private lake homes

Kids love to do battle in our 2-seater water-squirting Electric Fun Boats

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Other folks can't get enough of our Touring 130 Electric Kayak with comfortable seats and running lights

We sell out several times a year so Call or Email to Reserve Yours Today!

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Kayacht™

The advertisement features three inset photos: a child in a yellow and blue 2-seater water-squirting boat, a group of four people in a yellow and red electric chaise lounge, and a white and blue touring electric kayak. The background shows several kayachts parked in a row on a lake.

Lock up!

We like to think of Gravel Lake as a safe place for everyone to enjoy. Typically, it is. However, this summer, as in summers past, there have been various thefts around the lake. This should serve as a reminder to keep your house and vehicles locked. Items that have been stolen include cash, GPS devices, coolers, and hardware for kegs that were left outdoors.

Many times, our homes and vehicles are easy targets. We leave spontaneously to go spend hours on the lake with friends and family and don't think to lock up. We assume our vehicles are safe because they are parked mere feet from the house. However, the truth is that theft only takes seconds and it can happen anywhere at any time.

LASA receives three awards

MARCELLUS TOWNSHIP—In just a few short months of operation, the Lakes Area Sewer Authority Wastewater Collection & Treatment System (LASA) is getting a lot of notice for its successful construction and community cooperation.

The project received the Southwest Michigan Planning Commission "2011 Graham Woodhouse Intergovernmental Effort Award" earlier this year. This month, the LASA project was presented the Southwest Michigan ASCE "Quality of Life Award" and during the Michigan Engineering Conference, received the Michigan Section ASCE "Quality of Life Award."

What makes the project an award winner is that its success was based on the partnership of the US Department of Agriculture Rural Development, Cass County, Van Buren County, Lakes Area Sewer Authority, Village of Marcellus, Marcellus Township, Volinia Township, Porter Township, Big Fish Lake Property Owners Association, Finch Lake Association, Gravel Lake Association, West Saddlebag Lake Association, Wightman & Associates engineering firm and a long list of contractors.

The Lakes Area Sewer Authority Wastewater Treatment Plant was constructed as part of a United States Department of Agriculture – Rural Development \$10.8 million dollar funded project (\$1.433 million dollar grant) which aimed to install sanitary sewers around Finch, Fish, West Saddlebag Lakes in Marcellus and Volinia Townships, Cass County, as well as Gravel Lake in Porter Township, Van Buren County.

The collection system is a gravity system with lift stations while the treatment plant, located adjacent to the Village of Marcellus treatment lagoons, is a 250,000 gpd activated sludge process, expandable to 1.0 mgd. The base basin design permits the receipt of septage and additional capacity for the Village.

The wastewater collection and treatment system serves 730 customers around four lakes and 230 Village of Marcellus customers.

Reprinted from The Three Rivers Commercial News (18- June 2011) p. 8 (Real Estate / Local section)

ENVIROCLEAN

Tile and Grout Cleaning Service, LLC

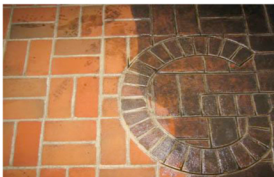
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We can clean your tile, brick, natural stone, concrete and even carpet with our special equipment that can clean with up to 3000 psi and 240 degrees of heat for not only a deep cleaning but sanitizing treatment all with biodegradable products!

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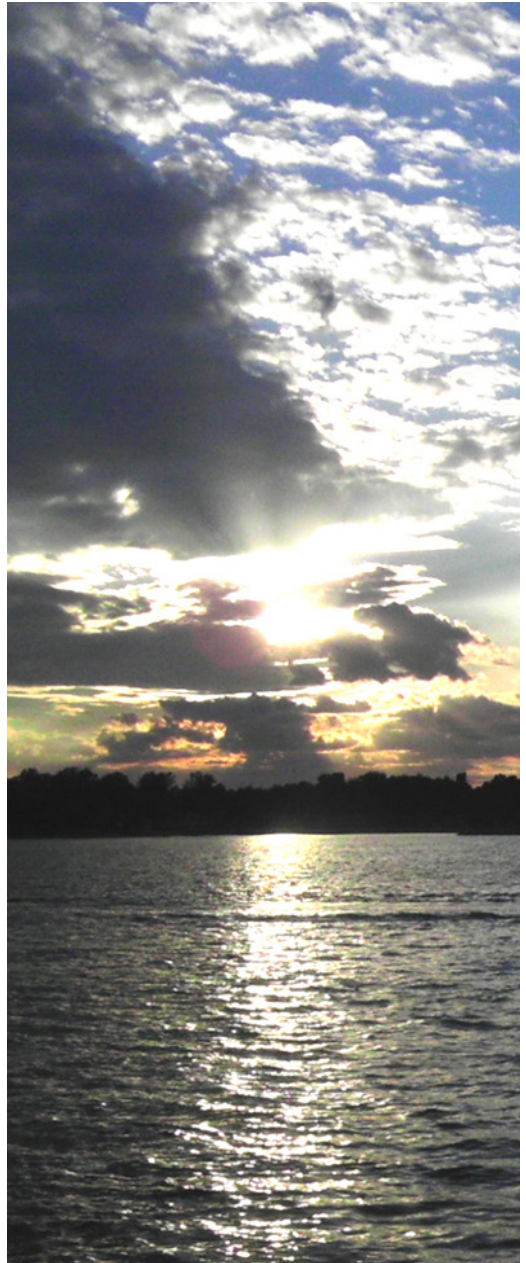
Locally Owned by Miles Cunat

Treasurer's Report

Beginning Balance as of 1/1/11 \$16,863.73

Deposits

Koozie, Towels and Tee-Shirt Sales	\$396.00
2011 Membership Dues - 19	\$501.00
2011 Membership Dues - 10	\$665.00
2011 Membership Dues - 4	\$171.00
2011 Membership Dues - 2 & 1 Beach Towel	\$95.00
2011 Membership Dues - 4	\$148.00
2011 Membership Dues - 20	\$1,258.00
2011 Membership Dues - 16	\$630.00
2011 Membership Dues - 22	\$914.00
2011 Membership Dues - 9	\$516.00
2011 Membership Dues - 22 2 for 2010	
Dues	\$1,008.00
2011 Membership Dues - 6	\$276.00
Advertising	\$50.00
Split the Pot Proceeds	\$65.00
2011 Membership Dues	\$546.00
2011 Membership Dues	\$527.00
2011 Membership Dues	\$853.00
Apparel Sales	\$670.00
Advertising	\$25.00
Bowling Outing	\$170.00
Apparel Sales	\$844.00
2011 Membership Dues	\$268.00
Apparel Sales	\$90.00
Apparel Sales	\$464.00
2011 Membership Dues	\$35.00
2011 Membership Dues	\$188.00
Split the Pot - August Meeting	\$31.00
2011 Membership Dues	\$113.00
Additional Donation	\$20.00
Apparel Sales & 4 Social Tickets	\$359.00
2011 Membership Dues	\$70.00
Total Deposits	\$11,966.00



Treasurer's Paid Listing Report (continued)

Expenses

The Michigan Riparian	\$352.00
Michigan Waterfront Alliance	\$100.00
Superior Imaging - Gravel Lakers (print & mail)	\$622.88
Michigan Lakes and Stream Membership Dues	\$175.00
United States Post Office - Stamps for Invoices	\$183.20
Staples - Copies of Inv. Treatment Notices, Envelopes	\$118.08
Janice Pinkos- Reimbursement for Return Address Labels	\$13.36
South Michigan Insurance - Surety Bond Renewal	\$100.00
Postmaster - PO Box Rental	\$26.00
Craig DeSimone - Reimbursement for Mic Stand	\$21.19
Superior Imaging - Gravel Lakers (printing only)	\$347.48
Crown Trophy - July 4th Boat Races	\$87.93
Rumpel Shirt Skin - Gravel Lake Apparel	\$2,461.60
Lauren Michelli - Reimbursement for July 4th Kids Games	\$144.92
Dan McDevitt - Reimbursement for Bouy maintenance	\$115.80
Suzanne Reed - Reimbursement - Office Max, Signs, Stamps	\$72.09
Newell Agency Inc. - Directory & Offices Insurance	\$924.25
Auto Owners Insurance - Liability Insurance	\$223.00
Craig DeSimone - Prepaid Kinko's Card & other copies	\$79.77
Janice Pinkos- Reimbursement Meeting Refreshments	\$45.64
Total Expenses	\$6,214.19

Checkbook Balance as of 8/9/11	\$22,615.54
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Other Assets:

Certificate of Deposit - Maturity Date 10/12/11	\$5,196.31
Certificate of Deposit - Maturity Date 10/12/11	\$5,196.31
Certificate of Deposit - Maturity Date 11/12/11	\$5,250.87
Total Other Assets	\$15,643.49

Total Funds	\$38,259.03
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Paid Listing

Paid Membership by Beach

Chamberlin	65%	Lewis	43%
Dugans	67%	Sandy	50%
Gebhard	61%	Streeter	44%
Huff's Landing	71%	Willow	52%
Idle Ease	75%	Winkler	48%

Last Name	First Name	Beach
Airgood	Annette & Ralph	Lewis
Anderson	Ed & Lois Sandy	
Anderson	Harold & Karen	Sandy
Balon	Sandra	Winkler
Barber	Ray & Diane	Sandy
Barker	Tim & Lynn	Chamberlin
Bartock	David & Susan	Streeter
Bartock	Peter & Lillian	Streeter
Beebe	Joyce	Chamberlin
Beebe, Patrick	Brian O'Boyle &	Chamberlin
Biss	Sherman & Billie	Idle Ease
Bleeker/Hornblower	Brian & Margot	Sandy
Boender	John & Nancy	Idle Ease
Bogner	Rick	Streeter
Bogner Family	Azar, Kersey &	Streeter
Boroughf	Laura & John	Gebhard
Bounardj	Ellen	Chamberlin
Braglia	James & Sharon	Sandy
Brockner	Terry & Judy	Sandy
Brooks	Lamar & Kathy	Willow
Brown	David & Mary	Sandy
Bukacek	Richard & Paula	Huff's Landing
Carlos	Paul & Vicki	Chamberlin
Carpenter	Shelly	Sandy
Caskey	John	Gebhard
Cechota	Richard	Lewis
Chiodo	Mike & Linda	Sandy
Cleary	William & Mary	Gebhard
Clifford	Mike & Joanne	Sandy
Clothier	Jeanne Warner &	Sandy
	Mike	
Cox	Ray	Willow

Last Name	First Name	Beach
Custer	Mark & MaryBeth	Sandy
Davis	Kevin	Sandy
Deren	John	Huff's Landing
DeRosa	Rick & Donna	Streeter
DeSimone	Carole	Willow
DeSimone	Craig	Chamberlin
DeSimone	Stogis Family &	Gebhard
	Carol A	
Dorsey	Deborah / John	Streeter
Dragicevich	Waneta	Huff's Landing
Dyrek	Vince & Nancy	Gebhard
Earl	Art & Francis	Sandy
Eggers	Herb & Lory	Gebhard
Engle	Dale & MaryAnn	Willow
Enright	Frank & Gerry	Gebhard
Ersland	George &	Sandy
	Rosanna	
Fallon	Edward	Chamberlin
Faustino	John & Patti	Winkler
Fazzini	Mark & Mary	Gebhard
Fernandez	Tom & Karen	Lewis
Fernandez	William	Lewis
Fewell	Chris & Amy	Sandy
Flavin	Tom & Lynn	Sandy
Fortney	Mark & Geri	Gebhard
Fox	Richard & Dorothy	Streeter
Frick	Ronald & Mari	Gebhard
Galassi	Paul & Judy	Winkler
Garrett	Greg & Marianne	Streeter
Garrison	Jeanette	Idle Ease
Gaspar	Audry	Idle Ease
Gaugush/	Jeffrey	Chamberlin
Flannagan		
Gilhooly	Frank & Kathy	Huff's Landing
Goeprich/Lord	Josephine/Rose	Lewis
Gordon	Mark & Perri	Gebhard
Gott	Don & Beth	Idle Ease
Graham	Tim & Nancy	Gebhard
Gryczewski	Bob & Donna	Willow
Gutmann	Heinz & Hertha	Willow
Haas	Jane	Chamberlin
Habart	Wilma	Idle Ease
Hackney Family	Johnson	Winkler

Paid Listing (continued)

Last Name	First Name	Beach	Last Name	First Name	Beach
Haley	Thomas	Idle Ease	Mascarello	Mike	Willow
Hanley	Mike & Mary Jo	Huff's Landing	Masterson	Vince & Valerie	Huff's Landing
Hart	Chuck & Mary	Sandy	Mattax	Ed	Winkler
Hartmann	Joseph	Winkler	Mayer	Mark & Elizabeth	Streeter
Heneghan	Martin & Kathy	Sandy	Mc Bride	Jeffrey	Chamberlin
Herchenroether	Eric & Rachael	Sandy	McDevitt	Dan & Marilyn	Huff's Landing
Heuring	Mike & Marge	Idle Ease	McGreal	Jim /Lillian	Sandy
Howard	Marjorie	Chamberlin	Melton	Winifred, Bruce & Penny	Chamberlin
Huber	Tom & Karen	Streeter			
Humble	Warren & Nancy	Sandy	MencI	Gary & Laura	Gebhard
Hunter	Mark & Susan	Idle Ease	Meskimen	Bob & Nancy	Streeter
Jabaay	Jim & Patti	Idle Ease	Metz	William & Pat	Winkler
Jacques	Beverly & Jim	Idle Ease	Micheli	Betty	Willow
Jacques	John & Joan	Idle Ease	Micheli	Jennifer Miller & Michael	Sandy
Jandacek	Ed & Diane	Lewis			
Jennings	Alice	Gebhard	Militello	Frank and Becky	Streeter
Jensen	Shirley	Chamberlin	Moore	Richard & May Britt	Willow
Jilek	James & Jill	Streeter	Moorman	Tom & RoseMary	Chamberlin
Jones	Corinne	Streeter	Moreland	Lawrence	Sandy
Jones	Terry & Fran	Sandy	Morkunas	Lynn Gilliland & Dennis	Sandy
Jurusik	Mike & Tracy	Sandy	Murphy	Wayne & Linda	Gebhard
Kanwischer	Norman & Ardath	Huff's Landing	Murray	Pat & Ann	Winkler
Kapercev	Victor & Darlene	Idle Ease	Nedvar	Jane	Idle Ease
Keene	Larry & Connie	Dugan's	O'Neill	Stephen & Roberta Lewis	
Kehlenbeck	Mark & Jane (Miles Sullivan)	Idle Ease	Orr	John & Angelina	Sandy
			Osborn	Mark & Melanie	Willow
Kelly	Erwin & Betty	Sandy	Ossowski	Tiffany & Michael	Sandy
Kitzmiller	Greg & Jennifer	Sandy	Oxley	Chris & Stacey	Dugan's
Komorowski	Lori	Winkler	Parisi	John & Diane	Sandy
Kopetski	Stephen & Suzanne	Willow	Paulik	Mark & April	Streeter
			Pechous	Kenneth & Pamela	Winkler
Kozlowski	Bruno & Mary Ann	Streeter	Pederson	Randy & Debbie	Sandy
LaForge	Ed & Ann	Winkler	Pinkos	Steve & Janice	Idle Ease
Lalone	Kevin & Tammy	Dugan's	Poyser	Steve & Sheila	Chamberlin
LaMonte	John & Mary Ann	Winkler	Poyser	Todd	Streeter
Laski	Harry & Vicki	Dugan's	Prichard	Jim & Shirley	Idle Ease
Lawrence	Paul & Cathy	Sandy	Puttkammer	Thomas & Lauren	Dugan's
Leisten	Gary & Vickie	Sandy	Quick	Raymond & Judy	Winkler
Lochow	Robert & Karen	Streeter	Raab	Ron & Susan	Gebhard
Locicero	Mark & Brenda	Gebhard	Rau	Jim & Donna	Willow
Lowe	Dasher & Maria	Sandy	Reber	Barry	Streeter
Malinauskas	Vincent & Mary	Willow	Reed	Ray & Suzanne	Sandy
Manning	Nancy	Dugan's			

Paid Listing (continued)

Last Name	First Name	Beach
Reeder	Bev & Harley	Chamberlin
Rhoades	David & Melissa	Sandy
Rimes	June & Moon	Streeter
Roesch	Lenore	Huff's Landing
Rogers	Priscilla & Mark	Chamberlin
Rucinski	Peter & Beverly	Streeter
Rusthoven/ Paramski	Robin & Tim	Huff's Landing
Sadowski	Mike & Sue	Winkler
Schlueter	Bob & Linda	Sandy
Schnaith	Robert & Terry	Winkler
Schroeder	Dean & Denise	Willow
Schroeder	Jim & Pat	Sandy
Schuld	Therese & Dan	Gebhard
Schultz/Henderson	Lory & Larry	Sandy
Scott	Crystal	Lewis
Seehausen	Dean	Chamberlin
Seput	Walter & Susan	Chamberlin
Siemer	George & Pam	Winkler
Skoropad	George & Florence	Sandy
Smith	Don & Jeanne	Sandy
Spier	Bill & Dorothy	Lewis
Spiller	John & Patricia	Dugan's
Stade	Jon & Heather	Gebhard
Stewart	Ron & June	Sandy
Storm	Robert & Jean	Sandy
Svrlinga	John & Debbie	Gebhard
Swindeman	John & Maralyn	Winkler
Szynal	Rich & Ewa	Sandy
Todd	Bruce & Shelly	Willow
Toso	Christopher & Linda	Sandy
Truhn	George & Norma	Dugan's
Vaickus	Tony & Karen	Idle Ease
Van Schoyck	Chip & Cindy	Lewis
VanBelleghem	Charles & Elaine	Chamberlin
VanMeter	Don & Fran	Sandy
Walsh	Larry & Debbie	Gebhard
Walter	Paul & Patricia	Gebhard
Welcome	Art & Mary	Sandy
Wells	Ronald & Karen	Idle Ease
Williams	Glenn & Judy	Sandy
Williams	Mark & Leslie	Sandy
Wilson	Rod	Winkler
Wojtanek	Ken & Judy	Idle Ease
Wojtanek	Ken & Susan	Winkler
Zaucha	Bruno & Karen	Winkler
Zwartz	Tom & Kathy	Idle Ease



Foam

Foam is often seen along lake shores and on streams and rivers. Most foam is natural and does not indicate pollution. Foam forms when water is mixed with air, such as by a waterfall or waves breaking against shore. Plants and animals release organic compounds as they decompose, and these compounds lessen the surface tension of water and create bubbles.

Biodegradable detergents and reduction of pollution from wastewater treatment plants have reduced the occurrence of pollution-related foam. If the foam smells fragrant or like perfume, it may be from a nearby spill or waste discharge pipe. Natural foam may smell fishy or earthy, and may be white, off-white, or brownish, and breaks apart easily when disturbed.

Taken directly from:

Schmitt, C. "What's That Floating on the Water Surface?" Field Guide to Aquatic Phenomena. The University of Maine and Department of Environmental Protection: State of Maine. Web. 04 Aug. 2011. <http://www.umaine.edu/WaterResearch/FieldGuide/onthewater.htm>.

Chip's Ad



GRAVEL LAKE MERCHANDISE

T-shirts, hats, and towels for sale.

T-shirts: \$15 (\$12 for kids)

Hats: \$10

Towels: \$25

Limited sizes and colors available.

Contact Suzanne Reed at 269-808-0327 or
Carlie Stogis 630-461-6200 to purchase items

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Tricia Barker, Contributing writer
Chip Van Schoyck, Printing



Volunteer Opportunities

Let us know if you'd like to volunteer to contribute to making Gravel Lake an even better place! Areas where we need volunteers include (but are not in any way limited to):

- Beach trustee vacancies
- Fundraising committee (organize fundraisers, help with Social)
- Social committee (new - organize all aspects of Social)
- Newsletter (writers, advertising, topics)
- Phone book (content compilation, ad solicitation)
- Research (weed treatment, water quality, other lake management related issues)
- History (we tried to get a history committee off the ground previously)
- Distribution of newsletters / information / flyers
- Boat parade
- 4th of July activities
- Dues solicitation

If you'd like to help, contact Craig DeSimone at cucad4@hotmail.com.



Gravel Lake Association

Membership Form: January 2011 - December 2011

Fill out and mail to:

Gravel Lake Association, P.O. Box 531, Lawton, MI 49065

This document is also available on the website @ www.gravellake.org.

Please print clearly.

Member name(s): _____

Beach: _____ Lake Phone: _____

Gravel Lake Address: _____ Lawton, MI 49065

Home Address: _____

City: _____ State: _____ Zip: _____

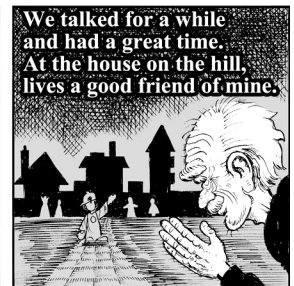
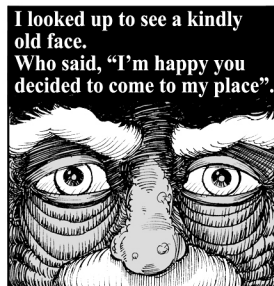
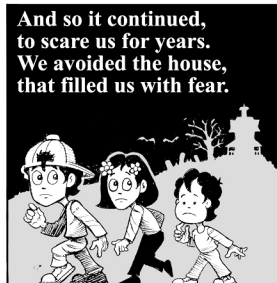
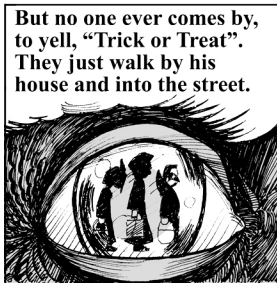
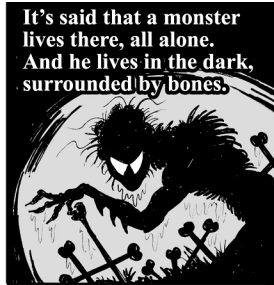
Home Phone: _____

E-mail address: _____

Please print clearly. Mail Check or Money Order payable to Gravel Lake Association

Membership dues for 2009						\$35.00
Optional Riparian magazine						\$ 8.00
Additional donation						_____
Fish Stocking Donation	\$10.00	\$15.00	\$25.00	or	Other	_____
Total Enclosed						\$ _____

Please indicate where your Riparian should be sent (circle one): home lake



Classified ads — Free for paid members!

A reminder to all dues-paying members that classified ads on the website are a free benefit of your membership. This includes advertising your personal business. Links to websites or color advertising can be discussed as well, but may entail a fee. Questions and ads can be emailed to Jim McGreal at jim@jmcstudios.com.

Board of Trustees Contact List

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Vice President	Suzanne Reed
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Gravel Lake Association

P.O. Box 531
Lawton, MI 49065
www.gravellake.org



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