
THE CULLEN CURRENTS



Fall, 2015

Master Gardeners Discuss Shoreline Issues at CLA Annual Meeting

by Carol Lindahl

Interesting presentations and a lively discussion on restoring and/or maintaining your shoreline highlighted the Cullen Lakes Association Annual Meeting in August.

Jackie Froemming, Crow Wing County Extension Coordinator, introduced Master Gardeners Dorothy Johnson (Lower Cullen) and JoAnn Weaver (Pelican Lake). Jackie began their presentation with a video on the Pine River Watershed, highlighting how watershed areas create and impact our lakes and rivers.

Dorothy illustrated how she created two triangular areas of plants that grow in sandy soil that help protect her shoreline on Lower Cullen. JoAnn shared how she was influenced to let her shoreline “go natural” after seeing before and after photos of a property that had done that. She lives on a point on Pelican, which provides beauty along with unique challenges.

A lively question and answer session touched on several topics:

- ☒ **Why was last winter so hard on the shore?** We had at least two large “rushes” of ice toward the shores which pushed the soil around more than normal.
- ☒ **Should reeds that drift toward the shoreline be left in the water?** Recommended to remove them and compost away from the lake.
- ☒ **Are weed rollers a good idea?** You need a permit to operate; one member commented that you should also consider the impact on your neighbors.
- ☒ **What blooming plants are good for the shore?** Recommended Carrol Henderson’s book on water and shore plants. Can be borrowed from the CLA library; contact Ann Beaver.

- ☒ **How can we prevent a muskrat invasion?** Watch in the fall and try to prevent them from digging in. Tom Beaver will also consult with property owners on removal.

President Ann Beaver led the audience through the other agenda items including the treasurer’s report and approval of the minutes of last year’s meeting.

Paul Beilfuss presented the budget for 2016 noting that our largest expenditure is for the treatment of curly-leaf pondweed. This on-going expense is significant and extra donations in 2016 and beyond are essential to continue this treatment activity. Because of that cost, the 2016 budget shows a deficit that shows the organization “eating away” at the money from the three-year fund raising campaign. Vice President John MacGibbon stressed that, depending on how many acres are treated each year, those funds will be exhausted in the next two or three years.

Attendees also re-elected several Board members for two-year terms: Paul Beilfuss, Lower Cullen; Charlie Boudrye, Middle; Jim Burrell, Lower; Dan Hurley, Lower; Jim Kostreba, Lower; Carol Lindahl, Lower; and Dan Meixner, Middle. In addition, two new members were nominated from the floor and elected – C. B. Bylander, Upper Cullen, and Debi Oliverius, Middle Cullen.

Examples of CLA merchandise items (glasses, mugs, T-shirts, sweatshirts and hats) were available for purchase at the meeting and attendees also had the chance to review numerous educational exhibits, including a special table of materials provided by the Master Gardeners, and new this year – a puzzle exchange.

Save the Date!

*2016 Annual Meeting
Saturday, August 13, 9:00 a.m.
Lutheran Church of the Cross*

PROPOSED 2016 OPERATING BUDGET

Paul Beilfuss, Budget & Finance Committee chair

Income

Membership Dues	\$6,000
Donations (General)	2,000
Donations (Curly-leaf Pondweed)	6,000
Department of Natural Resources Grant	<u>TBD</u>
Total	\$14,000

Expenditures

Administration Committee	
Annual Meeting:	
Supplies, Postage, Printing	\$250
Food	150
Board Meeting Room Donation	100
General Office Supplies	75
LARA Membership	75
Soteroplos Scholarship	<u>250</u>
Subtotal	\$900
Water Quality Committee	
Water Sample Analysis	\$750
Environmental Issues Committee	
Shoreline Awards	\$75
Education Committee	
Guide/Map Update	\$120
Newsletter Postage	525
Newsletter Printing	900
Web Site Management	<u>100</u>
Subtotal	\$1,645
Aquatic Invasive Species Committee	
CLP Control (Contractor)	\$41,000
Membership Committee	
Supplies and Printing	\$250
Postage	300
New Owner Packets	<u>50</u>
Subtotal	\$600
Other	
Board Liability Insurance	\$950
Miscellaneous	<u>100</u>
Subtotal	\$1,050
Total	\$46,020
Proposed 2016 Budget (Deficiency)	(\$32,020)
(Estimated income less estimated expenditures)	
Available Resources as of August 1, 2015	\$85,968.25

2015 Auditor's note: No material weaknesses noted; however, concern about annual deficit due to AIS control expenditures.

2016 Aquatic Invasive Species Control Project Grant Funds Are Reduced Significantly

In the spring of 2015 the DNR Invasive Species Program made \$675,000 available for grants to control Eurasian watermilfoil and curly-leaf pondweed (CLP). Due to reduced resources in 2016 there will only be \$200,000 available for this grant program. This is a significant reduction in grant dollars available for the control of these invasive plants!

What this means to CLA's efforts to control nuisance CLP is that our reserve funds will be exhausted much sooner than previously thought — in two years at most. **Once our reserve funds are spent, we will only be able to treat the acres our donations will pay for.**

If donations fall short of paying for the acreage we are allowed to treat in each lake, we will have to prioritize the areas to be treated each year. A request for additional/larger donations will be included in the 2016 membership mailing. This mailing goes to all property owners, not just current CLA members. Hopefully it will generate more than the record \$7,290 it did in 2015. As you can see from the budget at left, much more than that will be needed.

CLA Committees — 2015-2016

Administration

Carol Lindahl, chair
Paul Beilfuss
John MacGibbon

Budget & Finances

Paul Beilfuss, chair
Charlie Boudrye

Education

John MacGibbon, chair
Ann Beaver
C.B. Bylander
Carol Lindahl

Environmental Issues

Rich Johnson, co-chair
Jack McNamara, co-chair
Jim Burrell
Dan Hurley
Jim Kostreba
Dan Meixner

Fisheries

Dan Meixner, chair
C.B. Bylander
Dan Hurley

Invasive Species

Ann Beaver, co-chair
Carol Lindahl, co-chair
Paul Beilfuss
Rich Johnson
Dan Meixner
Denny Opsahl

Lake Management Planning

President, chair
All committee chairs

Land Development

Ann Beaver, chair
Charlie Boudrye
Jim Kostreba
Jack McNamara

Membership

Charlie Boudrye, chair
Ann Beaver
Carol Lindahl

Water Quality

Ann Beaver, chair
Charlie Boudrye
Rich Johnson
Dan Meixner
Denny Opsahl

Customer Satisfaction Survey – Canada Geese Weigh In

by Munsell McPhillips, Intuition and Logic, Inc.,
as printed in *From Shore to Shore*, Jan.-Feb., 2009 edition

Editor's note: This article appeared in the winter, 2009 Cullen Currents and perhaps will serve as a humorous reminder of what you can do next spring to deter geese from taking over your lakeshore yard, even though the Cullens are not suburban lakes.

The following is a tongue-in-cheek look at suburban lakes and shorelines from a goose's perspective. We have all heard (and perhaps made) complaints about the abundance of geese occupying our lakeshores and their persistent refusal to return to their wild homes. However, when we consider the conditions favored by geese, it's no surprise that they have chosen to stay.

- 1. Please describe your preferred lake shape and depth profile.** We prefer round or oval shaped lakes with gradually sloping shorelines. The gradually sloping shoreline gives us plenty room to graze on submerged vegetation. We like large areas of the lake to be within dabbling distance for grazing. Fiord-shaped areas or small sloughs do not work for us because they interfere with our take-offs and landings and do not provide a clear line of sight all around us. Please avoid any structures on the lake bottoms that might provide cover for undesirables like snapping turtles that eat our goslings. Particularly avoid fallen trees; these are nothing but trouble and harbor all sorts of fish and other animals that we don't eat.
- 2. What shoreline vegetation do you like best?** This may surprise you but we have become quite fond of turf grass. Although our natural diet is heavy on spike grass seeds, cord grass rhizomes and rush shoots, we have developed a taste for tender fescue and bluegrass, including the little bugs that live there. Please keep the grass mowed to our beak length (about 3 inches or less), we hate tough grass. Fertilize often! The excess nutrients keep plenty of underwater vegetation thriving, although the water does get a bit murky. Please do not use lots of native grasses and broad-leaves near the water. Any growth over about 3 inches is too tall. Taller growth provides cover for egg and gosling predators such as raccoons and foxes. Our sentry geese like to have a clear view of the entire lakeshore. Gosling safety is our primary concern.
- 3. What other shoreline features are important to you?** We like those smooth rock linings at the edge of the lakes and ponds. Try to keep them smooth and rounded, not that big, rough rip rap. The rocks harbor lots of little insects, our primary protein source during the all important breeding season. Smooth rock linings also provide easy access in and out of the lake particularly for our young ones.

4. What is your position on trees? We stay away from trees generally; we're just not adapted for aerial roosting. We would prefer if you would keep the approaches to the lakes clear of trees in all directions but at the very least along our usual flight pats. Moreover, the more open the lakeshore, the easier it is for our fellow geese to see us when they fly over....the more the merrier, as long as food is abundant.

5. What features of commercial development do you find most appealing? Commercial buildings provide



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humans keep the nearby areas free of shrubbery (again it's the predator thing). Some developments even have multilevel flat areas – planter boxes I believe. These are ideal for upscale nesters. Perhaps most of all, we like lots of asphalt paving so we can enjoy lovely solar heated roads and walkways. We also like the predictability of human behavior. Dusk and dawn are the busiest times for sentry geese, and thankfully humans tend to leave us alone during these stressful times. We can deal with humans at noon when they come down to the lake to feed. We've trained many of them to respond to our warning hisses.

6. On a scale from 1 to 10 (worst to best), how would you rate developed lakeshores as livable? Overall we give these settings an 8. We prefer them to more natural settings for many of the reasons that we stated. The humans, less than ideal neighbors, are at least tolerable. They proved initially unpredictable, but once we studied them in their native habitat and kept them on their heels with our warning hisses, we have learned to co-exist.

Currents on the Cullens

Deaths: Bill Brombach (L47,49)
James Wallin (M65,66)

New Owners: Dan & Mary Hurley (L65)
Nathan & Desiree Holzer (M31)

Editor's note: Following are the committee reports from the 2015 Annual Meeting.

ADMINISTRATION COMMITTEE

Carol Lindahl, chair

The Administration Committee organized the 2015 Annual Meeting, in conjunction with the full Board of Directors. Each year the organization strives to provide an interesting program and displays. The Committee has compiled a procedures manual for the CLA, as recommended in the Lake Management Plan's goals and objectives.

EDUCATION COMMITTEE

John MacGibbon, chair

The CLA Education Committee maintains two major sources of information about the Cullen lakes and the lakes association: Cullen Currents, published quarterly and edited by Ann Beaver, and the Cullen Lakes website: www.cullenlakesassoc.org, under webmaster Dan Meixner. Both the newsletter and the website continue to provide essential information on the Cullen Lakes to all members.

ENVIRONMENTAL ISSUES COMMITTEE

Rich Johnson and Jack McNamara, co-chairs

Highway pick up

Last fall's Labor Day weekend pick up had 14 volunteers and this spring's Memorial Day weekend pick up had 10 – both smaller groups than in recent years. Hopefully more people will turn out for this fall's September 5th highway pick up! Volunteers will meet at 8:30 a.m. at the unofficial parking area where Wilderness Ridge Road meets Highway 371. Our sincere thanks to all who volunteered and especially to the event organizer, Anne Kostreba!

Shoreline restoration/preservation

It has been three years since we last were able to present a Most Improved Shoreline Award and we aren't able to present one this year either. We hope it is just because people are too modest to nominate themselves and not because no one is working to improve their shoreline. Also, for the second year there will be no Lake Friendly Shoreline Award presented. Are these two awards something your Board of Directors should try to continue or should we drop the effort? Let us hear from you!

INVASIVE SPECIES SUBCOMMITTEE

Ann Beaver and Carol Lindahl, co-chairs

This past winter we completed DNR permit applications for our spring treatment of curly-leaf pondweed (CLP) and applied for DNR grant funding to help offset the cost. We received a DNR grant in the amount of \$9,100. Last fall, in order to keep the costs down, we entered into a three-year contract with Clarke Aquatic Services to provide pre-October surveys to detect new growth of CLP. The results

of this year's treatment again appear to be very good. We will continue to map known areas of CLP and we ask all lake users to notify us of areas they discover when out on the lakes. This knowledge will help Clarke and us effectively define treatment areas in the coming years.

Local DNR personnel are no longer able to map and treat purple loosestrife on the Cullens, as they had so graciously been doing for us, because they have their hands full dealing with the aquatic invasive species in the Brainerd Lakes area. So, we ask you to monitor your own shoreline and either pull out/dig up or poison any loosestrife you find. One mature plant can produce up to 2.7 million seeds annually, so if this invasive species is not dealt with our shorelines can be taken over by it. Please refer to the summer newsletter for methods of control. *If it's on your shoreline, it is your responsibility to get rid of it.*

WATER QUALITY SUBCOMMITTEE

Ann Beaver, chair

This report changes very little from year to year, which is a good thing. The results of our water sampling since the last annual meeting continue to show the water quality of the lakes falls within the normal range for lakes in our ecoregion. Monthly results vary some from year to year, due to weather conditions, but the overall condition of our lakes remains fairly consistent. A more detailed report will be included in the winter, 2016 newsletter. We continue to update the CLA Lake Water Quality Plan for each lake at the end of the testing season so they may be included in our applications for DNR grants for the treatment of curly-leaf pondweed.

LAKE MANAGEMENT PLANNING COMMITTEE

Ann Beaver, chair

In early February we mailed the 2015 Property Owners' Survey to one owner of each Cullen Lakes property. Of the 268 surveys mailed, 168 were completed and returned – a 63% return rate, which is excellent. The results were tallied and shared with all CLA Board members prior to the Board's May 9 meeting. At that meeting Board members discussed the results and made suggestions as to how the information gathered might be used to guide the association's future endeavors. Committee members have since made revisions to the existing Lake Management Plan (LMP) to reflect what was learned from the survey as well as from changing conditions in and around the lakes. The revised LMP was adopted by the Board of Directors at its July 25 meeting and you are being asked at this Annual Meeting for a vote of support for the Plan. This fall all the Plan's supporting documents will be updated and the entire LMP booklet will be burned to CDs and shared with appropriate government agencies.

LAND DEVELOPMENT COMMITTEE

Ann Beaver, chair

Committee members continue to attend meetings of the Pequot Lakes Planning Commission to represent the lake association's concerns regarding redevelopment aspects of Wilderness Resort Villas. CLA has a representative on the Pequot Lakes City Council/Planning Commission committee that monitors the continuing development of the resort, especially the removal of trees in the structure setback from the lake. There have been no land use applications before the Crow Wing County or the Nisswa Planning Commission/Board of Adjustment that have required our attention, so this past year has been a relatively quiet one for the committee.

MEMBERSHIP COMMITTEE

Charlie Boudrye, chair

Dues paying members in the Cullen Lakes Association number 240. A total of 15 members have not yet paid their dues for 2015. There are 13 complimentary members (new property owners on the lakes) compared to six last year. We have 18 Associate Members, meaning they are former lakeshore property owners, a property owner in the lakes' watershed, or a family member of a lakeshore property owner.

FISH MANAGEMENT

Dan Meixner, chair

Fish surveys were conducted on all three lakes in July by the Minnesota DNR. For photos and more information, visit the Cullen Lakes website.

Upper Cullen was completed July 10. Ron Opsahl was able to travel along with the DNR personnel one day and Ron Kriewald another day. They observed and learned about the DNR fish counting process, which involves sorting the fish by size as determined by the opening size in the various nets used. The largest walleye turned out to be a 28" fish that was successfully released back into the lake. The walleyes captured are aged by removing the otolith bone in the head. It is then able to be inspected for growth lines similar to the growth rings of a tree.

Numerous species were sampled on Upper Cullen including northerns, largemouth bass, crappies, various types of sunfish, perch and some rough fish including tullibeas, dogfish, bullheads, rock bass, and carp.

Middle Cullen was completed July 17. Ron Kriewald was able to ride along for three days. Due to the wind storm Sunday night, July 12, the DNR gill nets and live traps were set Tuesday, July 14. For the three days the gill nets were checked (7/15-7/17) the fish count was: 147 tullibeas, 47 northerns, 9 walleyes, 3 bullheads, 1 smallmouth bass, 1 rock bass, 2 crappies, 2 perch, and 3 bluegills. Scale samples were taken from all the fish caught in the gill nets except the tullibeas and bullheads. The live traps contained mostly small bluegills and one trap had seven crappies; all fish were released alive.

Lower Cullen was completed July 24. Once all the survey data are compiled by the DNR and added to their website, the links on the CLA Fisheries webpage will take you to each lake's results. This will probably not occur until early or even spring 2016.

NOMINATING COMMITTEE REPORT

Rich Johnson, chair

The CLA Board currently has 13 members. Of those, eight terms are ending as of the 2015 Annual Meeting. Of these eight, seven have agreed to run for re-election; Kathy Kriewald has opted not to run. No new candidates have been identified prior to this meeting.

The slate of candidates is as follows:

Paul Beilfuss, Lower Cullen
Charles Boudrye, Middle Cullen
Jim Burrell, Lower Cullen
Dan Hurley, Lower Cullen
Jim Kostreba, Lower Cullen
Carol Lindahl, Lower Cullen
Dan Meixner, Middle Cullen

If the slate is approved, there will be nine Board members from Lower, two members from Middle and one from Upper Cullen. There is an obvious need for more representation from Middle, in particular, and Upper. There are approximately 130 sites on Middle and only two Board members, while there are approximately 120 sites on Lower with nine Board members.

Ann Beaver, president; John MacGibbon, vice president; Carol Lindahl, secretary, and Charlie Boudrye, treasurer, have agreed to serve another term.

Editor's note: C.B. Bylander, Upper Cullen, and Debi Oliverius, Middle Cullen, volunteered at the Annual Meeting to serve on the Board of Directors.

Need Gifts?

Need Christmas or other celebration gifts or something nice just for you? Look no further. Cullen Lakes Association merchandise for sale includes caps, mugs, glasses, and a variety of styles of shirts and sweatshirts. We have even added youth sizes to our inventory.

Check out the selection at the CLA web site:

www.cullenlakesassoc.org

Unhatched Loon Egg Follow-Up

When taking the Lower Cullen west end loon nesting platform out of the lake last fall Jim Kostreba and Jack McNamara found this unhatched loon egg in the nest. They turned the egg over to Kevin Woizeschke, DNR Non Game Wildlife, in Brainerd so it could be analyzed for why it didn't hatch. Anne Kostreba recently received the following message from Woizeschke.



“For your egg from Lower Cullen, we cannot say for sure why it didn't hatch.

We were testing these eggs for gulf oil spill

contaminants, and a total of 29 were collected from around the state. Interestingly, your egg was 1 of 4 (out of 29 submitted) that showed higher levels of “PAH”.

PAH is the acronym for “polycyclic aromatic hydrocarbon”, a petroleum contaminant that can cause carcinogenic (cancer), mutagenic (mutation), and teratogenic (disturbance to development of embryo) effects. It's entirely possible that this contaminant prevented this egg from hatching, but other possibilities include fertility, incubation disruption, or other causes. We can say for sure that this egg contained a high level of PAH, so this reason is highly suspect. Thank you so much for submitting this egg! It is a very important one in our efforts to protect nesting loons!!

Fall CLA Social Event – Road Clean Up

by Anne Kostreba

The day was very hot and humid, but again, no rain. However, the frosting on the donuts melted! Twelve loyal CLA members gave an hour of their time (and sweat) on Saturday of Labor Day weekend to help clean up our assigned section along Highway 371.

Dan Hurley - your absence was noticed and it was UNEXCUSED! Many thanks to the following who did show up: Jim MacGibbon, John MacGibbon, Stu MacGibbon, Dan Meixner, Jack and Barb McNamara and their grandchildren Tyler and Tommy Gruye, Jim Burrell, Rich Johnson, Jim and Anne Kostreba. A special welcome to Paula Bengston from Upper Cullen who joined us for the first time. Her parents have been on Upper for many, many years. One of the most interesting things about these road clean up gatherings is getting to know our fellow lake dwellers and sharing stories about our families and their history on the lakes.

Hope to see many more of our members next Memorial Day weekend for our spring collection.

Proposed Crow Wing County 2016 AIS Plan from the fall edition of the CWC Water Plan News

The Crow Wing County Land Services Department is requesting public comment on the proposed 2016 Aquatic Invasive Species (AIS) Plan. The 2016 AIS plan can be viewed on the County website, www.crowwing.us by typing “AIS” in the search box. Written comments on the plan will be accepted until November 30, 2015, and may be submitted to the Environmental Services Office at environmental.services@crowwing.us or mailed to 322 Laurel Street, Suite 14 Brainerd, MN 56401.

Crow Wing County has been allocated \$450,000 by the State legislature to prevent the spread of aquatic invasive species within County lakes and rivers in 2016. The AIS plan proposes to accomplish this through:

Watercraft inspections

Crow Wing County has assigned a risk classification to each of the nearly 200 public and private boat ramps. The classification is based on the use, location, and infested status of each landing and ranges from low to very high risk. Over 15,000 hours of inspection will be conducted at high and very high risk landings.

Editor's note: As of September 15, there were 175 hours of boat inspections at the Middle Cullen public access and 180 hours at the Lower Cullen public access.

Decontamination units

Crow Wing County plans to maintain the AIS decontamination station at the Crosslake Joint Highway Maintenance that will be open daily to the public, free of charge. Watercraft decontamination consists of a very hot water rinse used to kill zebra mussels and a high pressure spray to remove material from boats, motors, trailers, and gear.

Treatment of Eurasian water milfoil

The County has nine lakes that are infested with milfoil that also have a public access. As in previous years, funds will be allocated for chemical or biological treatment of milfoil in these lakes.

Education & Awareness

In 2014 and 2015, Crow Wing County allocated funds directly to lake associations to conduct an education outreach campaign to their members. Over 30 lakes have participated. In 2016, the County plans to again offer this program. In addition, the County plans to use targeted signage, print media, news releases as well as radio, TV, and movie theater advertising.

Innovation / Special Projects

The County plans to continue to work with area lake associations and an environmental lab to conduct veliger testing again in 2016.

Closing up the Cabin for the Winter

Submitted by Doug Malchow, University of Minnesota Extension, malch002@umn.edu, (507) 280-5575

Closing a septic system for the winter for seasonal homeowners helps prevent the system from freezing, prolongs the life of the system, and keeps it operating at a high level.

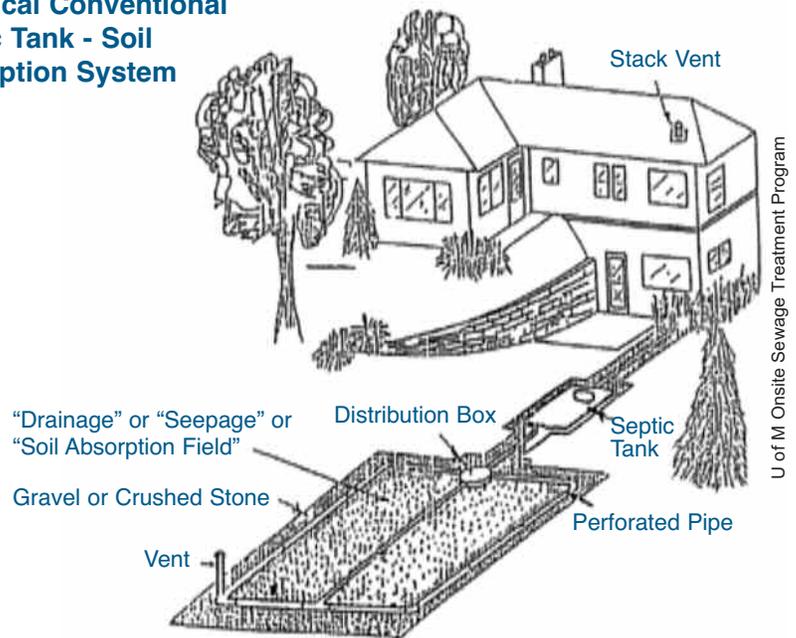
Preparing the Drainfield

Stop cutting the grass over the drainfield in mid-September; the extra grass length will capture snow, which provides insulation. Consider placing snow fence near the drainfield to help capture drifting snow on the drainfield to add to the natural insulating blanket of snow. Make sure all inspection pipes have covers to keep cold air from flowing into the drainfield pipes.

Winterizing the Water Pipes in the Cabin

- Do not add automotive antifreeze, salts, or any other additives to your plumbing.
- Even if the heat is left on, it is still a good idea to drain water supply lines. Shut off the water where it enters the house and drain all lines. Drain the pump and then run it for a couple of seconds to be sure all water is out of the lines. Drain the system by opening all the faucets, and then leave the faucets open. Completely drain the pressure tank. Flush the toilets and add RV antifreeze to the toilet tanks at the recommended dilution ratio. Check flexible hoses in sinks and bathtubs to be sure they are drained completely. Remove and drain inlet hoses for the dishwasher and clothes washer. Clear the water valve by starting the machine for a few seconds; then drain the tub. Remove the drain hoses and drain completely. Disconnect the electrical supply to the pump, water heater, softener, washer, and dishwasher. Drain the water heater and water softener with a hose after power is disconnected. RV antifreeze can be added to traps in sinks, bathtub and shower drains, wash-tubs, floor drains, and sump pumps.

A Typical Conventional Septic Tank - Soil Absorption System



- If you do not drain the water lines for the winter, be very sure that there are no leaks or drips. This constant, low flow of water can cause septic system freezing.

Furnace

If you have a high efficiency furnace that is left on for the winter, be sure that there is no water drip from the furnace that enters the septic system. This small trickling of water into the septic system can cause the system to freeze. Re-route the drip water to a floor drain that does not enter the septic system or reroute to another water source that enters the septic system in larger amounts. If shutting off the furnace, drain all water from forced hot water and steam systems unless the system contains antifreeze; call a plumber for assistance.

Cleaning/Pumping the Septic Tank

Consider pumping the tank if closing

the cabin for the winter or if it will only be used a few times during the winter (if you use the system periodically during the winter, the tank will essentially become a holding tank). If you live in an area with a high groundwater table, you should only pump the tank if it was designed for such conditions. If a tank is left full but the system is not used during the winter, the sewage will get very cold or possibly freeze. In the spring, it will take some time for the frozen sewage in the tank to thaw, meaning the septic tank may not be able to accept fresh sewage until the sewage in the tank thaws. ■

Adapted from a paper posted on the Onsite Sewage Treatment Program webpage.

For more information about this topic or other septic topics visit:
<http://septic.umn.edu/owners/index.htm>

CULLEN LAKES ASSOCIATION
P.O. BOX 466
NISSWA, MN 56468

To protect, preserve, and enhance the three Cullen Lakes and their environs in order to ensure the continued vitality of the lakes, high quality fish and wildlife habitat, safe and healthful family living, and the survival of these natural gifts for future generations.

CLA BOARD 2015-2016

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Secretary: Carol Lindahl
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Web master: Dan Meixner