

Letter from the President, *Herb Burnham*



“Strength in numbers”... an ageless term that so accurately describes the world we live in. I am reminded of it in nearly everything the Lake Hartwell Association

(LHA) does. Over the past 21 years, LHA has become recognized for its strength in advocating “for the sake of the lake” for several reasons, not the least of which is the size of its membership. We now boast more than 2000 families, organizations and businesses! When it comes to lake related issues, we are simply too big to ignore! I think most members will agree that we have come a long way and accomplished much, but we still have a long way to go. No matter what we do and how well we do it, we can always improve. This is undeniable and certainly applies to the way Hartwell Lake is managed, maintained, and utilized.

So what’s the message? It’s simple. If we want to ensure continuous improvement, LHA must continue to grow stronger by increasing our membership. Major issues, particularly **lake level management**, are going to have to be addressed by our elected representatives in both state capitols and

in Washington. They listen to their constituents (voters) who put them in office. The bigger the voter block, the stronger the “voice”. So let’s start now to seriously make an effort to grow our membership. **I am challenging every member** to recruit at least one new member during the next 6 months. I feel certain each of you know several non-members who live on and/or use the lake and want to preserve it for future generations. You may point out that the incredibly reasonable annual membership fee of \$25 is not only tax deductible but includes quarterly newsletters, two free picnics for their family, a 50% discount on their annual BoatUS membership, urgent and time-sensitive emails concerning lake issues and, most important, a voice in how the association deals with major issues. Now that’s a bargain!

You may also want to inform your neighbors and friends that LHA is not about making money. It is a non-profit organization made up of and managed by unpaid volunteers. We simply need to break even at the end of the year. In addition, there are always volunteer and educational opportunities that, if taken advantage of, provide members an opportunity to have a much better understanding of the complexities of managing the Savannah River Basin, including, of course, our incredible Hartwell Lake. You may want to entice them by sharing this copy of the LHA newsletter with them or giving them our web address www.LakaeHartwellAssociation.org where they can read past copies of the newsletter. Remember that joining is easy... just turn to the last page of this newsletter.

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Mark Your Calendar!

Oct. 27 7pm Annual Meeting
Come and hear about the building
of the Dam!
More info inside...

Lake Hartwell
Association,
Inc.

P. O. Box 2122
Anderson, SC
29622

(864) 224-LAKE

A Special Thanks to All the 2011 Cleanup Picnic Raffle Prize Donors

**WE LOOK FORWARD
TO SEEING YOU!**
Lake Hartwell Association
Annual Meeting and Forum
**OCTOBER 27, 2011, 7:00 P.M.,
ANDERSON CIVIC CENTER**

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- Harbor Light Marina
- J's Marine and Camper Repair
- Lake Hartwell Fishing and Marine
- Lee's Marine
- Longhorn Steakhouse, Anderson
- McGee's Irish Pub
- The Peoples Bank
- Pinnacle Bank in Lavonia
- Pinnacle Bank in Hartwell
- Red Lobster in Anderson
- Strickland Marine
- Sullivan's Metropolitan Grill
- Tucker's Restaurant
- West Marine

The Lake Hartwell Association will hold its Annual Meeting and Forum on Thursday, October 27, 2011, at 7:00 p.m. at the Anderson Civic Center. All members, guests and persons interested in the preservation of this resource are most welcome to attend!

The year 2012 marks the 50th Anniversary of the opening of the Hartwell Dam. As a prelude to the many 2012 celebratory activities, the centerpiece of our Annual Meeting and Forum will be an early history of the Hartwell Dam project.

David Coughlin, historian and author of "Lake Sidney Lanier", who is now writing a history of Lake Hartwell, will be our keynote speaker. He has been researching the history of the Hartwell Dam and Lake for some time and will publish his book in the near future.

Of course, the Corps of Engineers will also be in attendance. Col. Jeffrey Hall, District Commander, and George Bramlette, Operations Project Manager of the Hartwell Dam and Lake Project, will both be available for a presentation, discussion and questions.

Additionally, many of the LHA business members will have displays and representatives available for your information.

We encourage you, our members, to attend this Annual Meeting. Our goal is to keep you informed of our activities and the events surrounding our very special resource.

FOR THE SAKE OF THE LAKE



Building HARTWELL DAM AND LAKE



Power Plant—Feb. 26, 1959. Status of penstock erection. View North.



April 16, 1959. Concrete bucket being picked up by whirley to be lowered into forms. 20 ton American Revolver Crane on 70 foot Gantry Crane, 150



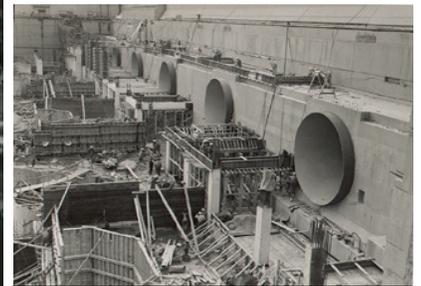
June 12, 1959. Penstock—View up stream from Georgia embankment. Down stream face of the dam.



November 2, 1959. Relocated South Carolina State Hwy 24 Bridge Over the Seneca River. View is northeast from right bank abutment.

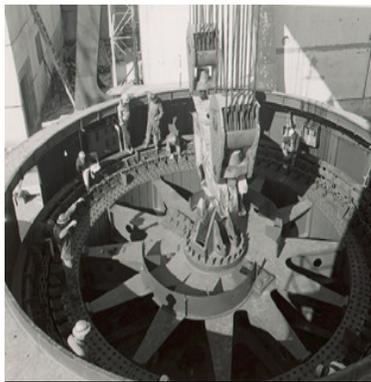


November 11, 1962. Powerplant area. Aerial view from Georgia side.



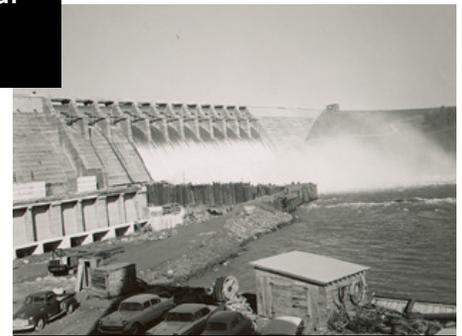
February 1, 1961. Powerplant area -

*All photos are courtesy of
The Army Corps of
Engineers.*



November 21, 1961. Placing rotor in Unit 1.

Construction of the Hartwell Project took place from 1955 to 1962. April 27, 1962 is the day that the first generator went on line and produced power. 2012 celebrates 50 years!



December 18, 1961. Spillway and Sluice gates open for test.

If you want to see more or hear more about the building of the Hartwell Dam, be sure to attend this year's annual meeting on Oct. 27.

PCB PROJECT NEARS COMPLETION

Two dams removed from Twelve Mile River

by Dr. Larry Dyck

This is one of those good news and bad news stories. LHA is pleased that another step in the clean-up of toxic PCBs (polychlorinated biphenyls) in Lake Hartwell is close to completion, but concerned that many issues in this project are left unresolved.

Around 420,000 cubic yards of contaminated sediment have been dredged from behind two 1900-era textile dams (Figure One), and the dams have been dismantled. The two-mile stretch that has opened-up is a free flowing river that passes through a scenic gorge and is expected to attract whitewater paddlers during high water flow. The unobstructed river also should deliver clean sediment to Lake Hartwell, about 5 miles downstream. Clean sediment is a requirement for the EPA-based PCB-remedy; the remedy requires naturally conveyed clean sediment to cap or bury PCBs on the contaminated lake bottom. Lake bottom contamination is confined to the Twelve Mile and upper Seneca River arms of the lake; however, migratory fish that feed in these regions become contaminated and carry PCBs in their body-tissues throughout the entire lake.

Unfortunately this project leaves some serious problems in its wake. First, impoundment floodplains, which today stand 15-25 feet above the excavated river channel, were neither excavated nor evaluated for contamination. The floodplains left behind are highly erosive sandy deposits mixed with layers of finer sediments that contain oily-PCBs (Figure Two, note the dark PCB containing layers). Two independent evaluations of the PCB content of the exposed floodplain-faces were conducted by conservation groups (including LHA) and by Pickens County. Both evaluations showed that channel-



Figure 2. Dark layers in floodplains contain high PCB concentrations

dredging had exposed layers in floodplain sediments that contained 50-157 times more PCBs than are allowed on residential property. While the Federal Court would not order the removal of floodplain sediments, EPA has agreed to perform a Remedial Investigation of PCBs along with a Risk Assessment of contaminated areas. These evaluations are slated to occur during the fall and winter of 2011-2012.

A second area of concern to LHA is the amount of sediment left in the river channel after the project's excavation phase is terminated. To expedite the removal of sediment during the dry part of the summer, contractors constructed a road within the riverbed. The road allowed heavy equipment to run from the site where long-arm excavators were dredging the river, up the mile-long river channel and across an earthen river crossing (river diverted into culverts), and up a steep road to the landfill. Not only did the contractor violate the Clean Water Act by constructing a river crossing, but they also failed to remove the majority of the road upon completion of the excavation (Figure Three). A conservative estimate places the road sediment volume at 30,000-40,000 cubic yards, or about 10% of the total volume placed in the landfill. The Lake Hartwell Association, together with Upstate Forever and the Pickens Conservation District, wrote to the Federal Court about this issue. They stated that leaving large volumes of sediment in the river, to be flushed with the first big-rain, is contrary to the purpose of the dam removal project...the project was intended to allow for a "natural" flow of sediment into Lake Hartwell rather than the release of slugs of sediment that degrade the river environment. Unfortunately, the Court did not order the road removed.

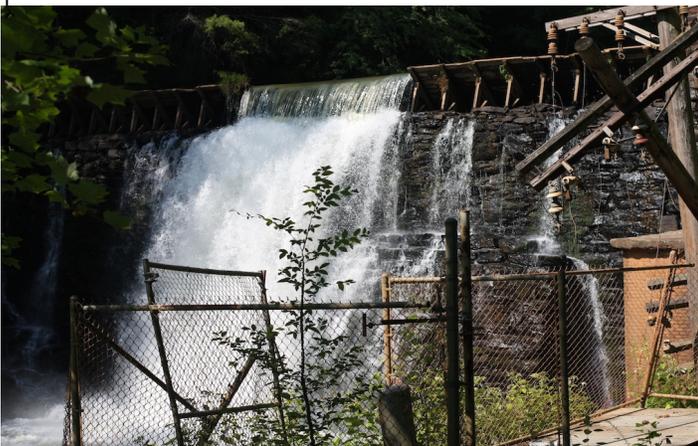


Figure 1. 1900 Era Dam

(Continued on page 5)

(Continued from page 4)

Completion of the dam-removal project requires two additional activities. First, the massive landfill, about the size of 6 football fields, must be closed. At this writing, heavy equipment is compressing and contouring sediment in the landfill (Figure Four); next a thick liner will be placed over the top of the sediment and sealed. The liner will subsequently be covered with topsoil and grassed. Landfill monitoring will be overseen by SCDHEC for 30 years; thereafter Pickens County will have responsibility, but they have worked to develop an agreement with the Responsible Party for maintenance, in perpetuity. The landfill is expected to close by the end of 2011. A second project -element awaiting completion is the restoration of the river channel and corridor. The project is slated to wait about one year after dams are removed to begin. During that year the river should find its own natural channel. Where problems exist, such as bank erosion, the channel will be redirected using rock veins and other river restoration techniques. Additional work includes restoring the confluence of river tributaries and stabilizing riverbanks using soil stabilization and bioengineering techniques. This phase of the work should begin soon. Finally, still to be decided is full-funding to remove the 3rd small dam that blocks natural sediment flow to Lake Hartwell. Removal of this dam, owned by the Easley-Central Water District, is complicated by the need to keep the district operating during excavation and dam dismantling. A feasibility study has been performed and the results have been submitted to the Natural Resource Trustee Council. At this writing, it is unknown how the Council wishes to proceed.

PCBs are “legacy pollutants,” that entered Lake Hartwell from the Sangamo manufacturing plant located near Pickens, South Carolina. Between 1955 and 1977, Sangamo used millions of pounds of PCBs as dielectric and coolant fluids in the production of electrical capacitors. Two hundred thousand pounds of PCBs are estimated to have entered Town Creek, a tributary of Twelve Mile River, from the plant’s stabilization lagoon. Because PCBs have very low water solubility, their release into Town Creek was associated with binding to residual organic material, which in turn bound to the clay and silt fractions of sediment. When Lake Hartwell was filled in the 1960s, the PCBs took up residence in



Figure 3. The Shoal Road after the equipment is gone. Roadway remaining is a bout 3000 feet long.



Figure 4. Landfill in process of being closed.

(Flight provided courtesy of South Wings.)

lake sediment. In 1977 SCDHEC and the EPA banned the use of PCBs because of health risks to humans and wildlife. (learn more at:

www.foxriverwatch.com/human_health_pcb.html).

For lake residents and users, the primary pathway by which PCBs might enter their bodies is via consumption of Lake Hartwell fish, particularly the top carnivorous fish. (see Fish Consumption Advisories at: www.scdhec.gov/environment/water/fish/docs/donotEat.pdf).

The dam removal project came about as a result of two legal agreements required by Superfund legislation. The first was the 1994 Record of Decision (ROD), which prescribed the remedy for PCB contamination as a natural attenuation, or burial, of the contaminated lake bottom with clean sediment. As a part of this requirement, the Schlumberger Technology Corporation, the responsible party for PCB contamination as a result of a merger with the Sangamo Company in the 1980s, was required to manage sediment release from the two dams on Twelve Mile River. Over the years this proved to be a difficult task. A caveat of the ROD required that sediment-release should not cause downstream biological damage...this was difficult to achieve and releases resulted in degradation of habitat and fish kills. Thus, when a second legal agreement, a 2006 Settlement for Damages to the Natural Resources came about, Schlumberger agreed to perform a project with their funds. The project would remove the two dams and restore the river through the reach of the dams. In 2009, the Federal Court asserted itself when the project had not yet started; the Court ordered Schlumberger to get to work and appointed former Federal Court of Appeals Judge, Billy Wilkins, and attorney Leon Harmon as Receivers. Since the appointment of Receivers, the Court, rather than the Natural Resource Trustees, who oversee the Natural Resource Damages Claim, has overseen the project. The demands of the Court seem to have struck a cord as Schlumberger and its contractors have worked with haste to complete the work.

EPA Investigates and Cleans Up Superfund Sites on 26-Mile Creek

By LHA Technical Committee

Two properties on Lake Hartwell: (1) American Screw and Rivet and (2) Flex-A-Form were declared Superfund sites by the Environmental Protection Agency (EPA) in June 2011. Both sites are located along 26-Mile Creek of Lake Hartwell near Exit 21 off Hwy 178 in Anderson County.

Superfund is the federal government's program to clean up the nation's uncontrolled hazardous waste sites. This law was enacted in the 1970s because of the discovery of toxic waste dumps like the Love Canal. It allows the EPA to clean up such sites and to seek reimbursement from responsible parties for the cleanup. The cost for the cleanups at the two Anderson County locations stood at a combined 3 million in August.

LHA Technical Committee representatives attended the Town Hall meeting on August 22 where the EPA reported that surface water, groundwater, and soil test results to date have shown that the majority of the pollution has remained on the sites and has not entered into Lake Hartwell. According to authorities, no imminent risk to public health exists but it is not possible to determine what the long-term health effects may be.

Chemicals including cyanides, acids, and arsenic were found on the sites. Many of the chemicals were spilled or improperly stored and mislabeled. Surface water, groundwater, soil and air quality issues are concerns.

LHA will continue to review the reports from these sites, especially relating to water and soil quality data, as investigations and clean ups are on-going. For more information and the public presentation slides and pictures, see these websites:

<http://www.epaosc.org/asr>
<http://www.epaosc.org/flexaform>

FYI... These sites, containing very dangerous chemicals, were abandoned and sat idle for years. LHA members should be concerned about similar sites close enough to the lake to cause serious lake contamination. If you see or smell something suspicious, please report it to proper authorities. For example, meth activities have recently been a concern on some of the islands.

Corps Names New Operations Project Manager At Hartwell Dam and Lake Project

SAVANNAH, Ga. – The U.S. Army Corps of Engineers Savannah District has selected George Bramlette as the operations project manager of the Hartwell Dam and Lake Project in Hartwell, Ga.

A native of Greenville, S.C., Bramlette has worked all facets of operations from both the project and district level during his 32 years of federal service with the Corps of Engineers.



As the Operations Project Manager, Bramlette is responsible for full-spectrum operations of the Hartwell project, including the Congressionally-authorized functions of water supply and water quality, flood risk management, navigation, hydropower, fish and wildlife management and recreation. He oversees nearly 56,000 acres of water, 962 miles of shoreline, and one of the top five most popular visitors programs in the Corps.

Bramlette also oversees the Corps' hydropower mission. On average, the Hartwell power plant produces more than 468 million kilowatt hours per year—enough energy to meet the annual energy needs of 46,000 households. Hydropower revenues during 2010 totaled more than \$22 million and have exceeded \$450 million since 1962.

“My staff and I will be actively engaged with many community activities, organizations and efforts associated with the Hartwell resource,” he said. “I pledge to keep the community informed of all matters pertaining to the management of the project including our hydropower, recreation and environmental stewardship programs.”

LHA is very pleased with the Corps selection of George to head their Hartwell Lake project. We have established a very good working relationship with him over a number of years and look forward to working with him in his new leadership role.

FOR LHA MEMBERS WHO OFTEN TOW THEIR BOATS

By Dan Ray

Did you know that the BoatUS Trailering Club offers its members special help for those who tow boats for only an additional \$14 a year? If you have ever experienced difficulty trailering, you know that this is a real bargain!

Remember that LHA members get a reduced rate membership of 50% when joining BoatUS because LHA is a “cooperating group”. In other words, LHA member only pay \$12. for their BoatUS annual membership dues instead of \$24. So, for a total of \$26 for LHA members or \$38 for non LHA members, you can be a member of BoatUS and also its Trailering Club.

As a member of the Trailering Club you will have 24/7 roadside assistance dispatch through over 18,000 roadside service specialists with the equipment and experience to get you back on the road with one simple phone call. Trailering Club Members can have their trailer and tow vehicle towed up to 100 miles to the nearest repair facility. The Club also offers flat tire assistance, fuel delivery, lock-out service and will even provide winching service if you are stuck at a slippery launch ramp. For more information on the BoatUS Trailering Club go to boatus.com/trailerclub or call 800-395-2628.



FYI...

Balancing the Basin is an electronic newsletter produced quarterly by the Savannah District of the U.S. Army Corps of Engineers. Its purpose is to foster communication with stakeholders in the Savannah River Basin concerning the Corps management of water resources and related issues. For more information about the Savannah District (SAS), visit www.sas.usace.army.mil In addition to providing their newsletter to email subscribers, it is posted on their website at SASNewsroom .

LHA Mission Statement

We will develop and establish the Lake Hartwell Association as an organization that promotes and encourages cooperation, assistance and information exchange among those concerned with Hartwell Lake and the Savannah River Basin.

We will provide a forum to collectively represent our membership on issues that pertain to the development, preservation and comprehensive management of Hartwell Lake.

We will collect and distribute information on matters affecting Hartwell Lake.

We will maintain liaisons and communications between the Lake Hartwell Association and educational, governmental, scientific and other communities.

BASIN ADVISORY COUNCIL ADDRESSING ISSUES

By Mike Massey

The **South Carolina Savannah River Basin Advisory Council (SRBAC)** met on August 31, 2011 in Columbia, SC. The purpose was to review a series of issues in the Savannah River proposed by the Council members and identify the top concerns of the members.

The SRBAC was established in April of 2010 and consists of 25 influential stakeholders from along the South Carolina side of the basin to improve water resource planning within SC, and through coordination with Georgia, specifically tailor a water plan for the Savannah River Basin. Former LHA President Mike Massey and Harry Shelley, Facilitator for the Friends of the SRB, are Co-chairs. This is the only BAC in South Carolina and is being reviewed by other basins for possible initiation.

The Council has had presentations from a number of organizations, including state, municipal, civic and federal representatives on the current and future issues and plans for the basin. Members have had an opportunity to identify their primary concerns and share their specific needs with all members to define why a specific problem may be important to one area and perhaps not others. Cooperation to resolve issues is the goal.

Members of the South Carolina and Georgia Department of Natural Resources (DNR), the South Carolina Department of Environmental Control (DHEC), and the Corps of Engineers (COE) are all non-voting members of the Council.

Governor Haley is very interested in the proceedings and proposals of the SRBAC and has sent a top aid to monitor the meetings. State Representative Jeff Duncan has also sent a representative and has offered to help resolve issues.

Significant results from this meeting are:

- Jeff DeBissonette of SC DHEC announced that negotiations to improve the share of pollutants between SC and GA are ongoing. Currently, 97% of the allowed basin pollutant levels are allocated to GA. With only 3% allowance, SC is limited in any way to improve their business growth. Expectations are to allow an upgrade to SC of 10 to 13%.
- David Baize of SC DHEC reported:
 1. The water permitting bill approved last year after a four year effort now allows the state to identify who is using our water and how much. This has never been known before.
 2. The next step is to begin specific basin water assessments to identify how much water is actually in the basins and what is available for use at any specific time. One of the first issues is to conduct a drought plan update/revision based on the latest data. The problem here is that there is limited funding in the SC to supple-

ment the \$500,000 federal funds allocated through former Congressman Gresham Barrett several years ago. There is some concern that the federal money may be lost if not used soon. Georgia and South Carolina both need to provide \$250,000 fair share to get the money. Georgia has allocated its share of the money. SC has not. The SRBAC is working to help resolve this. Governor Haley is being asked to intervene. (See the report from Eric Krueger below for more info.)

3. The final part of the planning is a need for a comprehensive water plan by DNR. (See report by Joe Gellici below.)
 - Eric Kreuger of The Nature Conservancy reported that TNC has met with the Corps to propose a way to possibly provide for the funds or in-kind work for South Carolina (see David Baize report number 2 above). The problem is once again timing. The Corps had a two week window to respond to TNC and they were waiting for the answer. The SRBAC will attempt to provide a status through our web site (WIGGIO) when there is more news.
 - Joe Gellici is the DNR manager responsible for revising the SC Water Pan. Joe indicated their process will develop a State Water Plan plan that supports a far-reaching vision for water resource management and to lay out statewide policies and general management practices. The final accepted provisions of this plan are intended to guide individual river basin plans including aquifer planning. The Statewide Plan will provide the framework for planning processes in each basin. Basin planning will include:
 1. Align the various basins for planning entities
 2. Identify how much water is being used in each basin
 3. Identify how much water is available in each basin currently and for the future
 4. Develop a hydrological model for sections of each basin
 5. Develop a basin plan.
- The SRBAC, in the last year, has identified ten major issues for the Council to concentrate on in then upcoming months. This meeting resulted in all members of the Council, based on the investigative work of the past year, being asked to clearly identify the priorities of the ten issues. The future review, support and attention of the Council would then be directed at the highest priority issues. A copy of the issues is found in the LHA website under SRBAC. Results will be posted a soon as all votes are in and have been tabulated.

The complete minutes of the meeting are available on the LHA website.

The next meeting will be held in approximately three months in Columbia. Anyone interested in attending the meetings should call 864-222-1925 or send an email to memassey@charter.net or harry@wctel.net to be put on the meeting announcement list. All are welcome to attend.



Savannah River Basin Advisory Council Issues

1. A revised State Water Plan is needed: to provide umbrella guiding principles allowing development of the SRBWP within state rules and processes; to provide clear definition of state responsibility for specific issues; and to provide a process to integrate the revised State Water Plan, individual basin water plans, and Surface Water Withdrawal (SWW) permitting regulations.
2. Increased visibility into definitive criteria on what are the normal minimum and drought contingency flows during normal and extreme conditions (including drought management) and when and how they are implemented in an equitable manner.
3. Need for review of long-term operating procedures at the ACOE reservoirs and their ability to use adaptive management on an instantaneous and interactive basis to maintain conservation pools at the highest possible levels while protecting downstream water resources.
4. Low dissolved oxygen levels in the Savannah River and Harbor and the equitable sharing of a substantially reduced assimilative capacity between SC and GA dischargers.
5. Council being fully informed (transparency) and consulted in a timely manner by all basin water planning and management organizations about ongoing issues including, but not limited to, salt water intrusion, Savannah River Total Maximum Daily Load, Duke Energy Keowee-Toxaway Relicensing, Savannah Harbor Expansion Project, Plant Vogtle, and coordination with Georgia on shared water resources.
6. More efficient use of water in the region and coordinating with Georgia stakeholders to promote consistent conservation initiatives within South Carolina and Georgia portions of the basin.
7. Clear understanding of all consumptive uses within the basin, including interbasin transfers of water out of the Savannah Basin
8. Long-term sustainable water supplies for municipal, industrial and power generation growth in the region while protecting the unique environment throughout the basin.
9. Creation and maintenance of a data base of information regarding water quality and quantity within the basin, ecosystem health, land use, hydropower rules, flood control and long term modeling of future supply availability, needs and economic impacts within the basin.
10. Fresh water flows- the formation of a scientifically based procedure to ensure the maximum environmental benefit and economic viability equitably throughout the basin

Report on Georgia Regional Water Planning Progress

By Pat Goran

*(Member of the Savannah – Upper Ogeechee
Water Planning Council)*

As readers of LHA's newsletter know, the Savannah - Upper Ogeechee Regional Water Planning Council is one of eleven regional councils established by the state of Georgia as part of its statewide water planning process. Hartwell Lake and the upper Savannah River Basin fall within the Savannah – Upper Ogeechee region.

All of the councils have submitted their Initial Draft Recommended Regional Water Plans to the Georgia Environmental Protection Division (EPD) and the public comment period on the draft plans has expired as of June 23rd.

EPD has reviewed the draft plans for consistency with the rules for regional water planning. Based on this review and the public comments received, EPD has asked the Savannah – Upper Ogeechee Regional Water Planning Council to review and revise its initial draft plan. It appears that the changes that need to be made will be relatively minor in nature. As this is being written, each Regional Council is in the process of submitting a final recommended regional water plan to EPD by the September 30th deadline.

What happens after that?

EPD will then review each final recommended regional water plan for completeness and consistency with the State Water Plan. Depending on the outcome of this review, EPD will either adopt the recommended regional water plan as submitted or adopt the recommended regional water plan with conditions.

EPD will use the adopted regional water plans to guide decisions regarding permitting. The plans will also guide state grants and loans from the Georgia Environmental Finance Authority for water-related projects within each water planning region. Finally, the regional water plans will be subject to review by the Regional Water Planning Councils every five years.

You can go to Georgia's State Water Plan website: (www.georgiawaterplanning.org) or the Savannah – Upper Ogeechee website: (www.savannahupperogeechee.org) for updates on the status of statewide water planning.

Perfect Weather! Prizes Galore! Picnickers-200



By Ruth Ann Maciag

The Hartwell Lake Clean-up Campaign, sponsored by the Corps of Engineers every summer, ended on Saturday, September 25th, National Public Lands Day, with the Volunteer Appreciation Picnic, funded, staffed and prepared by The Lake Hartwell Association.

Over 500 volunteers spent their time and energy picking up tons of trash around the lake shore and about 200 of them came to the Big Oaks Recreation Area to be recognized and feast on the great American picnic fare, hotdogs, burgers, beans and cookies... what better way to spend a couple of hours on a beautiful Saturday in September. (Unless, of course, you were at the Clemson game.)

At least fifty children pounded and banged, putting together birdhouses, a kids activity set up by the Corps. In addition to that activity, Rivers Alive came with free T-shirts for everyone.

LHA members had collected hundreds of prizes from local businesses, non-profit organizations and restaurants which were given out to kids and adults as well. There were bike helmets from Anderson County Safe Kids Coalition, rope tows, tubes, gift certificates from the Galley, Sullivans, Applebee's, and many more. Please see the list of prize donors in this issue of the newsletter.

Herb Burnham, LHA President, recognized George Bramlette, Operations Project Manager of the Hartwell Dam and Lake Project for the Corps of Engineers; Don Bowen, SC House of Representatives; and Rusty Ables, Anderson County Sheriff's Department Hartwell Lake boat patrol.

Rusty Ables said his full-time job is patrolling the 400 miles of lakeshore that lie within Anderson County and he is available at 864-260-4444 and marinepatrol@andersonsheriff.com. He brought his patrol boat with him, docked it at Big Oaks, and gave tours to anyone interested.

The Hartwell Lake Clean-Up Campaign will be going on again next summer. Why not plan ahead, get a group together, pick up some junk to clean up the shoreline, get a tan in the meantime, and come to the picnic. It is great fun with good food and an opportunity to preserve this great resource.

FOR THE SAKE OF THE LAKE



ANDERSON COUNTY LAKE PATROL

In our summer newsletter, members owning lake front property in Anderson County were encouraged to email Sheriff John Skipper, asking him to consider increasing his department's lake patrol. Well, many of you acted and Detective Rusty Ables has now been assigned full time to lake patrol duties. Lake patrols have increased significantly and several arrests for theft have been made.

LHA president, Herb Burnham, and Board Member Don Haynie recently met with Rusty, his supervisor, Captain Randall Creamer, and Anderson County Community Projects Coordinator, Anita Donley.

The purpose of the meeting was to explore how the two organizations can best work together. A number of ideas were discussed and are being explored. It is anticipated that LHA members will have many opportunities to help. Immediately, however, members are urged to follow the crime fighter's rule "see something, say something". There are nearly 400



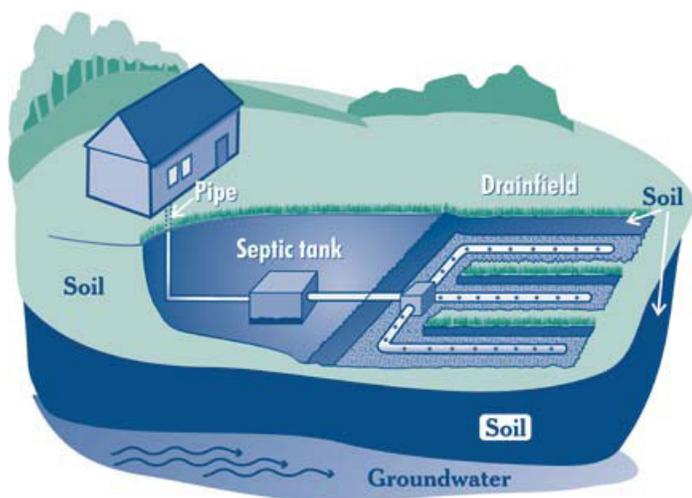
From Left to Right: Capt. Randall Creamer, Community Services Dir. Lloyd Robinson, Det. Rusty Ables.

miles of lake shore in Anderson County... an awful lot for one patrol boat to cover. On the other hand, there are some 8000 residential properties on that shore line. Obvious, isn't it? We must serve as an extension of the patrol's eyes and ears.

More information will be forthcoming as this cooperative program develops. In the meantime, everyone is encouraged to report anything that appears to be suspicious by emailing what you have seen or heard to www.marinepatrol@andersonsheriff.com or by calling 260-4444. Emergencies should, of course, be reported by calling 911. In all cases, you should note that it is a lake or lake front situation, and provide directions that could be used by the lake patrol. In some cases, the lake patrol may be close by and able to respond quicker than a land vehicle.



Septic Systems: Out of Sight should not mean Out of Mind



Homes that are not hooked up to a municipal sewer line typically have a septic system that when functioning properly, treats human waste. Conventional septic systems rely on simple principles and components to work effectively.

1. **Settling Tank:** solids settle out in the tank while floating grease and scum float to the top.
2. **Absorption/ Leach Field:** piping from the tank transfers liquid waste to perforated pipes usually laid out like a fork over gravel beds. Liquid waste drains out of the pipes and into the underlying gravel and soil, where it is microbially degraded before reaching the groundwater table several feet below the system. A healthy community of microorganisms is key to cleaning this waste!



In a situation where a septic system is failing, public and environmental health are at risk. Dangerous bacteria, viruses and nitrogen can be discharged to the groundwater table, which may lead to the contamination of groundwater drinking wells down-gradient of the failing system. These same pollutants may be fed into nearby waterways by groundwater, resulting in pollutant discharge to streams and lakes used for fishing, swimming, shellfish harvesting and so on. Pollutants of this nature can lead to sickness, skin irritations, economic losses due to beach and shellfish bed closings and harmful impacts to aquatic life. The proper care and maintenance of your septic system, the system treating your human and household waste, should not be taken lightly. Furthermore, un-cared for systems can cost more money and shorten the lifespan of your investment in this wastewater treatment system.

1. **Inspect and pump** (if deemed necessary by a professional) at least every 3-5 years.
2. **Reduce the amount of grease and solids down the drain** to extend the life of your system. This means that homes on septic should NOT have a garbage disposal.
3. **Know where your septic leach field is in your yard.** You should never park or drive over your leach field, which will compact the soils needed for the treatment of waste and possibly destroy components. Also, never plant a tree or deep-rooting plant on or near the leach field.
4. **Avoid water-intensive activities.** For instance, avoid running the washing machine and dishwasher at the same time. Too much water going into the tank at once can resuspend solids, which can then clog your leach field.

For additional information, visit us online at www.clemson.edu/carolinaclear.

What should NOT go down the drain when you have a septic system:

- kitchen scraps,
- condoms,
- diapers,
- cigarette butts,
- tampons,
- paper towels,
- cat litter,
- oil-based paints,
- strong chemical cleaners,
- excessive bleach and
- pharmaceutical products



Stormwater Education

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LHA Membership: Welcome Aboard & Thank You!



In these challenging economic times, we are especially grateful to all the LHA member families and businesses that support our efforts to protect the beauty and value of Lake Hartwell. Please join us in welcoming the members who have joined since the last newsletter.

New Family Memberships

- | | |
|-------------------------------|--------------------------|
| ◆ Mark Blakely, | ◆ Tim & Traci Kearns, |
| ◆ Rueanna Campbell, | ◆ Mr. Michael McNeice, |
| ◆ Thomas A. Chelko, | ◆ John & Jennifer Snead, |
| ◆ Thomas Dancy, | ◆ H.R. Bob Stair, |
| ◆ Greg Distler, | ◆ Bill & Evan Sowers, |
| ◆ Kohlan & Linda Flynn, | ◆ Nial & SueTuvell, |
| ◆ Robert & JoAnn Fry, | ◆ Cynthia VanLuit, |
| ◆ Michael & Jennifer Garrett, | ◆ Ron Walker, |
| ◆ Donna Gordon, | ◆ Robert Walter, |
| ◆ Mike & Colleen Herbert, | ◆ Larry Widenhouse |
| ◆ Andrew Jaworski, | |

New Community/Business Memberships

- American Services, Inc. of Greenville, SC - Henry Harrison
 - Palmetto Lakeside Services
- Tom Miller Keller-Williams Lanier Partners

Special Donations

We are also grateful for special donations to support LHA's ongoing work. Please join us in thanking the following LHA members for their exceptional generosity.

- | | | |
|-------------------------|---------------------------|-------------------------|
| ◆ Phil & Leise Tucker, | ◆ Greg Distler, | ◆ Stewart Mcgrath, |
| ◆ Robert Alexander, | ◆ Doris Farrar, | ◆ Marshall Meadors, |
| ◆ Bryan & Susan Boyd, | ◆ Todd Heller, | ◆ Maria Mollise & |
| ◆ Franklin Brown, | ◆ Mark Kaspar, | Rob Svedberg, |
| ◆ Phil & Hope Burdett, | ◆ Keith & Leslie Kozicki, | ◆ Ronald & Maril Yeske. |
| ◆ Richard & Linda Davy, | ◆ Robert & Mary Lord, | |

Thank you all for your generous support of LHA's efforts
"For The Sake Of The Lake!"

LHA COMMUNITY & BUSINESS PARTNERS

*Please join us in thanking the Community and Business members that generously support LHA!
Visit the LHA website for their business contact information and website links!*



- American Services, Inc. of Greenville, SC - Henry Harrison (864) 292-7450*
- Anderson Regional Joint Water System - Scott Willett (864) 231-5987
- Andrew Adams, DDS (864) 226-6278
- Big Water Marina - Jane W. Davis (864) 226-3339
- Bill Brissey Real Estate - Bill Brissey (864) 226-7380
- Billy Howell Ford Lincoln Mercury - Billy Howell (770) 887-2311
- Brysan Utility Contractors, Inc. - Christopher Barber (770) 985-4606
- Byers Precision Fabricators - Roger Byers (828) 693-4088
- C. Dan Joyner Company - C. Dan Joyner (864) 242-6650
- Carola Dauchert Real Estate LLC - Carola Dauchert (864) 226-5473
- Carolina WaterSports - Chad Hodges (864) 332-0090
- Central Irrigation Supply - Idral Bowen (914) 347-5656
- Chickasaw Point Property Owners Association (864) 972-3680
- Clearwater Shores Community - Gary Bruce (864) 304-3656
- Coldwell Banker Fort Realty - Fort Oglesby (888) 409-5054
- Collins Dock, Inc. - Tammy Collins Smith (864) 225-2881
- Connie & Robert Banks
- Custom Dock Systems - Don Haynie (864) 225-2393
- Diamond T Promotional Gear - Derek Burnette (864) 972-0690
- Dock Depot - Richard Henshaw (706) 377-3200
- Docks South, LLC - Bill Griggs (770) 377-3625
- Eric Nilsson
- Grady's Great Outdoors - John Phillips (864) 226-5283
- Greg Collins
- Harbor Light Marina - Larry Rich (706) 356-4119
- Hartwell Lake News - Angie Wilson (864) 934-3952
- Hartwell Marina & Boat Sales - Brant Tew (706) 376-5441
- Jerilyn Wiech - Keller-Williams Lanier Partners (706) 244-8211
- Kroeger Marine Construction, Inc - Dave Kroeger (864) 882-7671
- Lake Hartwell Sail & Power Squadron - Bert Baxter (864) 601-1660
- Lakeside Chiropractic, LLC - Dr. Cindy Pradhan, DC (864) 224-7660
- Lee's Marine LLC - Randy Lee (864) 224-0123
- Marine Specialties, Inc. – Grant Wood (864) 287-5880
- Matthew Nasrallah, Attorney-at-Law (877) 266-3694
- Mike & Sherry Hayes
- Mike Sanders Boat Storage - Michael W Sanders (864) 231-0010
- Palmetto Lakeside Services (864) 933-0707*
- Paradise Point Inc - William Roberts (404) 261-5003
- Paul & Susan Meng
- Phil Jewelers - Phil Silverstein (864) 226-7635
- Pintail Point Property Owners Assn. - Sheree Moate (864) 622-2265
- PIP Printing - Ovid Culler (864) 225-1471
- Portman Marina - Dave Freeman (864) 287-3211
- Romano's Italian Restaurant - Nouhad Yarid (864) 332-0434
- Strickland Marine Center - Dave Strickland (864)225-0145
- Swaney's Point Association - Danny Shook (828) 242-1612
- Tom Miller Keller-Williams Lanier Partners (678) 469-9917*
- T N Construction - Thad Strickland (864) 574-2113
- The Hartwell Sun - Robert Rider (706) 376-8025
- The Regatta at Lake Hartwell HOA, Inc. - Joe Argo (864) 226-7202
- Upstate Forever - Brad Wyche (864) 250-0500
- US Army Corps of Engineers Hartwell Dam & Lake Project (706) 856-0300
- View Point Lot Owners Association (770) 814-0963
- Water Education and Environmental Center (WECC) - Charlie Gibson (864) 844-1179
- Watermark Realty Company – Patricia Rowland (706) 356-2121
- William M. Callahan, DDS (864) 647-9000

*New members

Thanks for YOUR Support!



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Membership Application

Fall
2011

Good news! Joining LHA and renewing your membership just got easier! You may mail this Membership Application form with your check to LHA at the above address, or visit the LHA website (see above) to make a secure credit card payment!

Membership Information: Check all that apply

- New Renewal Address change Amount Paid \$ _____ Date _____
- Family \$25 Community, Association or Business \$100
- Gift Membership Additional Donation \$ _____

Name _____

Spouse's Name *(If Family Membership)* _____

Mailing Address _____

City _____ State _____ ZIP _____

Phone (H) _____ (W) _____ (Cell) _____

E-Mail _____

Occupation(s): Yours _____ Spouse's _____
(If retired, check here and give former occupations above)

Lake Address _____ County _____
 (*or Gift Recipient's address) _____

Pay by Check: Make checks payable to **Lake Hartwell Association, Inc.**
 Send to address above.

Give Something Back To The Lake.

Please select committees on which you would be willing to serve.

- Legislative
- Program
- Financial
- Lake Cleanup
- Safety
- Technical
- Membership
- Publications
- Covekeepers
- Other