

YOU are invited to our Friendraiser 2014! Join us for an evening of dinner, music, and a silent auction as we celebrate another year of watershed protection in the Beaver Lake Watershed. Read on for volunteer and educational opportunities, and to learn about a study commissioned by BWA and partners regarding the assessment methodology for Beaver Lake numeric standards.

BEAVER WATERSHED ALLIANCE



 [Like us on Facebook](#)

 [Follow on Twitter](#)

 [Forward to a Friend](#)



About BWA

The Beaver Watershed Alliance was formed in 2010 to establish programming to maintain high quality drinking water in Beaver Lake and improve water quality in the Beaver Lake Watershed. The Alliance represents a diverse stakeholder group from conservation, education, water utilities, technical and science, agriculture, recreation, business, and local government groups working together for the goal of clean water.

November 2014



You are invited to our
Friendraiser 2014
An evening of dinner, music, and a silent auction featuring folk duo "Still on the Hill"

Friday, November 14th
6:30 p.m. to 9:30 p.m.
Magnolia Gardens
501 North Main Street, Springdale Arkansas

RSVP required to 479.750.8007 or alli@beaverwatershedalliance.org

You are invited to the Beaver Watershed Alliance Friendraiser 2014. Join us for an evening of celebration of another year of voluntary watershed protection in the Beaver Lake Watershed! Partners, landowners, volunteers, and supporters of good water quality in the Beaver Lake Watershed are all invited to attend this event, which will take place Friday, November 14th from 6:30 to 9:30 p.m. at Magnolia Gardens in Springdale. Dinner will be served, and folk duo "Still on the Hill" will perform their album, "Once a River: Story Songs about the Beaver Lake Watershed". There will also be a silent auction featuring works by local artists as well as locally-made products. RSVP is required to attend. Reserve your

Please take a minute to update your contact information for us by clicking on "update subscription preferences" at the bottom of this page. Thank you.

Upcoming Events

November 12

Cato Springs Cleanup on Mt. Kessler - Fayetteville

November 13

Speaker Series - Washington County Farm Bureau, Fayetteville

November 14

Multi-basin Regional Water Council Meeting - Benton County Cooperative Extension Office, Bentonville

November 14

Friendraiser 2014 - Magnolia Gardens, Springdale

November 19 - 21

2014 ADEQ Watershed Conference - Inn of the Ozarks, Eureka Springs

Check out our [online calendar](#) for more detailed information on upcoming events!

Please share this newsletter with your friends and neighbors so that they can have the opportunity to become active members in the Beaver Watershed

spot by contacting Alli at 479-750-8007 or alli@beaverwatershedalliance.org

Next Installment of BWA Speaker Series to focus on "The Science of Water Supply Protection"

The fourth installment of the Beaver Watershed Alliance Speaker Series "Investing in Water Source Protection in NWA: It's good for business, agriculture, recreation, nature, and you" will take place at the Washington County Farm Bureau office in Fayetteville on Thursday, November 13th from 11:30 am - 1:00 pm. The featured speaker will be Dr. Thad Scott from the University of Arkansas Crop, Soil, and Environmental Sciences Department. This particular program will reveal a portion of the world of science and scientific pursuit which is often necessary and may be utilized in best efforts to obtain watershed protection. Lunch will be provided at this event, which is free and open to the public. Please reserve your spot today by contacting us at info@beaverwatershedalliance.org or by calling 479-750-8007.



We're excited to announce the addition of Alli Chlapaty as Conservation Intern for the Beaver Watershed Alliance. Alli joined the Alliance as a member of the 2014 Episcopal Service Corps. She is originally from suburban Chicago and graduated from the University of San Diego with a B.A. in Environmental Studies with a minor in Political

Science. Alli's previous internships include working with a political campaign in her native Illinois, a summer internship with the European Parliament in Brussels, and a research internship at Sustainability Matters, a sustainable building materials consulting firm in San

community.

Diego. Alli lives in Fayetteville, AR and enjoys hiking, cooking and exploring Northwest Arkansas. Alli can be reached at alli@beaverwatershedalliance.org or by phone at 224-388-2208.

October Stewardship Moments



16 volunteers, including high school students from the Partners of the Americas Student Ambassador program, planted native grasses in 4 rain gardens maintained by CH2M HILL at the City of Fayetteville Noland Wastewater Treatment plant. These gardens capture stormwater runoff and help to improve water quality in the White River and Beaver Lake.

Thanks to our hard-working volunteers for helping to keep it clean!



The students from EAST at Huntsville High School have started their work on testing the water quality of streams in and around Huntsville! We are excited to work with such a great group that is dedicated to making a positive impact in our area. Besides working on a monitoring project for their class, these students have also adopted a couple of sites to monitor through the StreamSmart volunteer monitoring program. Way to go!

Assessment Methodology Study Commissioned

In 2005, ADEQ assembled a Technical Subcommittee of the Beaver Lake Scientific Workgroup to develop site-specific numeric nutrient criteria for Beaver Lake. The subcommittee included representatives from ADEQ, USGS, CH2MHILL, City of Fayetteville, Beaver Water District, FTN Associates, Ltd., and Dr. Joe Nix. The initial work group determined that the criteria should be developed to protect the use of the lake as source of drinking water. In 2008, FTN Associates, Ltd. published the *Beaver Lake Site-Specific Water Quality Criteria Development: Recommended Criteria* report. Site-specific numeric nutrient criteria for measuring nitrogen

and phosphorus were recommended for the Hickory Creek site in Beaver Lake by the work-group. Chlorophyll *a* and Secchi transparency were selected as the measures of water quality because they represented the response of the lake to nutrients like phosphorus and nitrogen. The site-specific criteria were determined to be:

- Growing season geometric mean of chlorophyll *a* concentration: 8 µg/L
- Secchi transparency: 1.1 meters

The Hickory Creek site was selected to receive site-specific numeric nutrient criteria for various reasons, including: The site would integrate the loadings from the White River, Richland and War Eagle Creeks; The site occurred downstream from the area where the waters of the White River plunge down into the depths of the lake or “plunge point”; The site occurred directly upstream of a major Beaver Lake drinking water intake; and for accessibility.

As of January 2013, the Arkansas Pollution Control and Ecology Commission adopted the Beaver Lake criteria into Site Specific Nutrient Standards of Regulation 2.509. On July 14, 2014 ADEQ reconvened the Beaver Lake scientific work group to address remaining questions associated with the assessment methodology such as: Defining sample collection methods for chlorophyll *a*, depth of sample collection, should chlorophyll *a* sampling frequency be increased during the growing season (May – October), minimum number of samples for annual average, how to ensure representative samples of actual ambient conditions that are not skewed towards a season, defining collection locations for taking Secchi transparency samples (i.e, shoreline, quarter points, mid-point), and to discuss potential assessment methods.

Realizing that more analysis will be useful to help ensure the most accurate assessment methodology protocol and best chance to ensure to the maximum extent that the community of NWA is looked out for, the best available scientific information is utilized, and Beaver Lake is adequately protected, the Beaver Watershed Alliance in partnership with the Washington County Farm Bureau,

CH2MHILL, City of Fayetteville, and Beaver Water District, are commissioning a three phased, two year project with the University of Arkansas Arkansas Water Resources Center which entails: 1) deriving an initial assessment methodology based on the method(s) used to develop the site-specific numeric criteria for chlorophyll-a and Secchi transparency in Beaver Lake which must be submitted January 1 to ADEQ for consideration of inclusion in the next triennial review cycle, 2) Assessing the variation in chlorophyll-a and Secchi transparency across multiple spatial and temporal scales in order to validate the assessment method, and 3) Quantifying trends in chlorophyll-a, Secchi transparency, and nutrient concentrations in Beaver Lake and the major inflowing rivers to verify any potential water quality impairment.

The results will be informative and are sure to aid in voluntary watershed protection efforts of the future. Scientific investigation of water quality within the watershed and working with all stakeholder groups to progress voluntary watershed protection is a key foundation of the Beaver Watershed Alliance, and this study is a great example of how BWA is working to achieve our mission for the benefit of everyone who benefits from Beaver Lake.

[follow on Twitter](#) | [friend on Facebook](#) | [forward to a friend](#)

Copyright © 2014 Beaver Watershed Alliance, All rights reserved.



[unsubscribe from this list](#) | [update subscription preferences](#)