

WAY E-NEWS

A coalition of stakeholders committed to being innovative leaders
encouraging watershed-based planning, restoration and protection



Monday, April 15, 2013

A PUBLIC-PRIVATE PARTNERSHIP

Volume 13, Issue 8

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- Green Infrastructure Operations and Maintenance as Career Pathway Stepping Stones
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- Proposals Currently Open for Comment

WATERSHED CONTACTS

COUNTY PLANNING – (717) 771-9870

CONSERVATION – (717) 840-7430

- Agricultural conservation planning
- Environmentally sensitive dirt & gravel road maintenance
- Environmental stewardship and watershed protection
- Erosion & sediment control
- Stormwater complaints

24-HR EMERGENCIES – (877) 333-1904

- Chemical and oil spills from transport trucks, trains and industrial facilities

ENVIRONMENTAL – DEP-SCRO

- General Info 717-705-4700
- Air Quality 717-705-4702
- Energy & Technology 717-705-4703
- Environmental Cleanup 717-705-4705
- Mining (800) 541-2050
- Radiation Protection 717-705-4704
- Waste Management 717-705-4706
- Water Supply Management 717-705-4708

Water Management 717-705-4707

Watershed Management 717-705-4704

FISHERIES – (800) 541-2050

- Wildlife (fish, reptiles, amphibians) nuisance problems or to report violations
- FISH KILL 1-855-347-4545

GAME & WILDLIFE – (888) 742-8001

- Wildlife (mammals or birds) to report violations or nuisance problems

ILLEGAL DUMPING

- Illegal dumping on state forest and park lands (877) 772-3673

- Illegal dumping York County 840-7687

MUNICIPAL (Phonebook Blue Pages)

- Air pollution by burning household garbage
- Dumping waste in surface waters
- Floodplain disturbances
- Municipal and residential septic/sewage problems
- Stormwater management

NOXIOUS PLANTS – (717) 772-5209

RECYCLING – (717) 845-1066

WETLANDS – (717) 249-2522

Updated 4/27/2011

WATERSHED ALLIANCE NEWS

[Ag Land Preservation Board of York County](http://www.york-county.org/gov/AUTH/agri.htm) - www.york-county.org/gov/AUTH/agri.htm

- For information contact Patty McCandless at pmccandless@york-county.org or call 717-840-7400.

[Carroll Citizens for Sensible Growth](http://carrollcitizens.com/) - <http://carrollcitizens.com/>

- Contact: Deana Weaver at (717) 432-2211 or admin@carrollcitizens.com

[Codorus Creek Watershed Association](http://www.codoruscreek.net) - www.codoruscreek.net

- April 29, 30 & May 1 are the dates for planting over 2000 trees & shrubs at the Wagman Farm. Red Lion HS, Dallastown HS, Logos Academy and PADEP will be sending students and volunteers to help, all others are welcome as well. Volunteers please bring your own shovels. The Wagman Farm is located at 710 Arbor Drive which follows the same valley as Barshinger Creek. Work will begin at 9:00 am each of those days. I'll be notifying the teachers. Contact Jim Leaman at leamo2@comcast.net.
- July 8 - Meeting of Members and Board, 7:00 pm, at York Water Co. (Mt. Rose Ave.)
- Contact: Jim Leaman at 843-2929

[Codorus Endowment Implementation Committee](http://www.yccf.org) - www.yccf.org

- For more information, contact the York County Community Foundation at 717.848.3733; Email: info@yccf.org

[Codorus State Park](#)

- Contact Manager Warren Werntz, Codorus state Park Ph: 717-637-2816; E-mail: codoruspp@pa.gov

[Conewago Canoe Club](http://www.conewagocanooclub.org) - www.conewagocanooclub.org

- Club Meets bi-monthly at Mount Zion United Church of Christ, 7:00 pm, at Ridgewood Road in Pleasureville
- Questions or comments e-mail me oc1mike@comcast.net, but remember you catch more flies with honey than vinegar.

[Deer Creek Watershed Association](http://deercreekwatershed.com/) - <http://deercreekwatershed.com/>

- Contact Lee McDaniel at ldmcdaniel@aol.com.

[Farm & Natural Lands Trust of York County](http://www.farmtrust.org) - www.farmtrust.org

- Contact: Sean Kenny at Farm & Natural Lands Trust of York County. Ph: (717) 843-4411 or e-mail skenny@farmtrust.org

[Gifford Pinchot State Park](http://www.dcnr.state.pa.us/stateparks/parks/giffordpinchot.aspx) - www.dcnr.state.pa.us/stateparks/parks/giffordpinchot.aspx

- Event calendar <http://www.dcnr.state.pa.us/Calendar/list.asp>
- Contact Elizabeth Kepley, Environmental Education Specialist, DCNR Bureau of State Parks. Ph: 717-432-5011

[Gunpowder Valley Conservancy](http://www.gunpowderfalls.org) - www.gunpowderfalls.org

- Contact: Gunpowder Valley Conservancy, P.O. Box 9733. Towson, MD 21284. Or Assistant Project Manager Rachel Streusand rstreusand@gunpowderfalls.org.

[Horn Farm Center for Agricultural Education](http://www.hornfarmcenter.org) - www.hornfarmcenter.org

- Contact: Horn Farm Center for Agricultural Education. Ph: (717)654-0571. Email: info@hornfarmcenter.org. Web: www.hornfarmcenter.org.

[Izaak Walton League York Chapter #67](http://www.yorkchapter67iwla.org/) - www.yorkchapter67iwla.org/

- Club Open Meetings are held the Third Tuesday of each month at 7pm in the Clubhouse.
- Contact: York Chapter #67 IWLA. Ph: 717-428-2000

[Lower Susquehanna Riverkeeper](http://www.lowersusquehannariverkeeper.org) - www.lowersusquehannariverkeeper.org

- Contact: Michael Helfrich, Lower Susquehanna RIVERKEEPER®, York, PA. Cell phone: 717-779-7915 E-mail: lawsusriver@hotmail.com.

[Maryland's Upper West Shore Trib Team](http://www.dnr.state.md.us/waters/tribstrat/) - <http://www.dnr.state.md.us/waters/tribstrat/>

- Contact: Rupert Rossetti, Tributary Team Coordinator, e-mail: RupertRossetti@aol.com

[Mason-Dixon Trail System, Inc.](http://www.masondixontrail.org/) - <http://www.masondixontrail.org/>

- Contact: James Hooper at 717/252-3784 or j.e.hooper@ieee.org

[Mid-Atlantic Ecological Landscapes Partnership \[MAEscapes\]](http://www.maescapes.org) - www.maescapes.org

- April 29 - Advisory Board meets at 6:30 PM, at the York County ANNEX
- Contact: 717-840-7408 or Connie Schmotzer at cxs51@psu.edu

[Peach Bottom Concerned Citizens Group Inc.](http://www.pbccg.com) - www.pbccg.com

- Contact Maria Payan by email pbccg@hotmail.com or mail: Peach Bottom Concerned Citizens Group, P.O. Box 307 Delta, PA 17314. PBCCG, Inc is a nonprofit organization supported solely by volunteers and donations.

[Prettyboy Watershed Alliance](http://www.prettyboywatershed.org) - www.prettyboywatershed.org

- Contact: Nancy Shaper at nshaper@ihmi.edu

Sierra Club – Gov. Pinchot Group of PA – <http://pennsylvania.sierraclub.org/pinchot/>

- Contact GVP Sierra Club, P.O. Box 606, Harrisburg, PA 17108-0606. GVPSierraClub@email.com

Shank's Mare Outfitters GO PLAY OUTSIDE! – www.shanksmare.com

- Call Us: 717-252-1616. Email us: Shanksmare@comcast.net

Spoutwood Farm Center for Sustainable Living – www.spoutwood.com

- April 12 – Board of Directors meeting, 6:30 PM, at Spoutwood Farm Center.
- Contact Rob & Lucy Woods at Spoutwood Farm at 717-235-6610 or spoutwood@comcast.net.

Susquehanna Gateway Heritage Area – <http://www.susquehannaheritage.org/>

- Contact Mark Platts, Susquehanna Heritage Corporation. Ph: 717-252-0229. E-mail: info@lyhr.org.

Trout Unlimited Codorus Chapter #558 – www.codorustu.org

- Monthly Chapter Meetings 2nd Wednesday, 7:00 p.m., at Gander Mtn. (winter)
- Contact: Tom Finenze at 840-1372 or tom@codorustu.org

Trout Unlimited Muddy Creek Chapter #575 – <http://muddycreektu.org/>

- Dates: April 13 and 20.– MCTU as part of our commitment to cold water conservation will be planting trees and shrubs at the Pine Run Project along Blouse and Brownton Roads in Red Lion. We have an obligation to plant 120 trees and 200 shrubs. This will require approximately 60 volunteer hours so this is all hands on deck. If you can help with this project meet at the Pine Run project site. Wear sturdy footwear and gloves. Waterproof boots are a plus. We usually work until around noon. Please respond with your level of commitment or questions. Meeting time is 9am
- The MCTU monthly membership meeting will be held at the Sugar and Spice Restaurant in Brogue on Wednesday, April 17 at 7:00P.
- Contact: Ron Heuston, President MCTU, 244-1851 or Heuy1955@aol.com

Watershed Alliance of Adams County – <http://www.adamswatersheds.org/>

- WAAC meets the 4th Wed, 8:30AM, at the Adams County Ag Center
- Contact: Adam McClain, Ph: 717-334-0636; E-mail: stilden@adamswatersheds.org

Watershed Alliance of York – www.watershedsyork.org

- July 10, 2013 – Annual Meeting of WAY Board of Directors, 7:00 PM, at The York Water Co., Mt. Rose Ave.
- WAY E-News – Published by the Watershed Alliance of York, Inc. to inform the public about news and information that affect York County watersheds and beyond. PLEASE SHARE WITH YOUR MEMBERSHIP AND E-MAIL LIST. Contributions of news, events and information relating to watershed education, funding, planning, restoration, protection, and stewardship welcome. Send contribution to and contact us for mailing list additions/changes to the e-mail address below. Distribution: electronic (1,850). Frequency: bi-weekly. Subscription: No charge. Editor: Gary R. Peacock.
- Contact: Watershed Alliance of York, Inc. (WAY), C/o York County Conservation District, 118 Pleasant Acres Road, York, PA 17402. Phone: (717) 840-7430. Facsimile: (717) 755-0301. E-mail: gpeacock@yorkccd.org

Wecology – www.wecologypa.org/

- Contact: Wecology 130 E. Market St., York, PA 17405. Phone: 717-718-7554.

Yellow Breeches Watershed Association – www.ybwa.org

- Contact: Deborah Goetz, at deborah.p.goetz@gmail.com or phone 717-697-4734

York-Adams Regional Smart Growth Coalition – www.yorkadamssmartgrowth.org

- Contact Shanna Wiest, Government Affairs Director, REALTORS Association of York & Adams Counties, Inc. Ph: (717) 843-7891. Fax: (717) 854-0720. <http://www.rayac.com>

York Audubon Society – <http://www.yorkaudubon.org/>

- Contact Tom Smith at 717-246-9767 or tls35@psu.edu.

York County Conservation District – www.yorkccd.org

- Board meets 2nd Friday, 11:00 a.m. (December-March) and 2nd Thursday, 7:00 p.m. (Apr.-Nov.), at the York County ANNEX
- Contact: YCCD at 717-840-7430 or yorkccd@yorkccd.org

York County Parks & Recreation – www.YorkCountyParks.org

- For more information, contact York County Department of Parks and Recreation. Ph: (717) 840-7440. E-mail: Parks@York-County.org. Web: www.YorkCountyParks.org.

York County Planning Commission – www.ycpc.org

- Meets 1st Tuesday at 7:30 p.m., except Wed. Nov. 1 at 7:30 and Tues. Dec. 1, 6:00 p.m., at 28 E. Market St., 2nd Floor.
- Contact YCPC at 717-771-9870 or planner@ycpc.org

York County Solid Waste Authority – <http://www.ycswa.org/>

- Contact YCSWA at 717-845-1066

WATERSHED EDUCATION & OUTREACH

Streams Stressed by Pharmaceutical Pollution

Science Daily Apr. 1, 2013 – Pharmaceuticals commonly found in the environment are disrupting streams, with unknown impacts on aquatic life and water quality. So reports a new Ecological Applications paper, which highlights the ecological cost of pharmaceutical waste and the need for more research into environmental impacts. Lead author Dr. Emma Rosi-Marshall, a scientist at the Cary Institute of Ecosystem Studies, comments: "Pharmaceutical pollution is now detected in waters throughout the world. Causes include aging infrastructure, sewage overflows, and agricultural runoff. Even when waste water makes it to sewage treatment facilities, they aren't equipped to remove pharmaceuticals. As a result, our streams and rivers are exposed to a cocktail of synthetic compounds, from stimulants and antibiotics to analgesics and antihistamines." With colleagues from Indiana University and Loyola University Chicago, Rosi-Marshall looked at how six common pharmaceuticals influenced similar-sized streams in New York, Maryland, and Indiana. Caffeine, the antibiotic ciprofloxacin, the antidiabetic metformin, two antihistamines used to treat heartburn (cimetidine and ranitidine), and one antihistamine used to treat allergies (diphenhydramine) were investigated, both alone and in combinations, using pharmaceutical-diffusing substrates. Rosi-Marshall explains, "We focused on the response of biofilms – which most people know as the slippery coating on stream rocks – because they're vital to stream health. They might not look like much to the naked eye, but biofilms are complex communities composed of algae, fungi, and bacteria all living and working together. In streams, biofilms contribute to water quality by recycling nutrients and organic matter. They're also a major food source for invertebrates that, in turn, feed larger animals like fish." Healthy streams are slippery streams. And it turns out that antihistamines dry more than our noses. The most striking result of the study was diphenhydramine's effects on algal production and microbial respiration. Exposure caused biofilms to experience up to a 99% decrease in photosynthesis, as well as significant drops in respiration. Diphenhydramine also caused a change in the bacterial species present in the biofilms, including an increase in a bacterial group known to degrade toxic compounds and a reduction in a group that digests compounds produced by plants and algae. Results suggest that this antihistamine is disrupting the ecology of these sensitive biofilm communities. Rosi-Marshall notes, "We know that diphenhydramine is commonly found in the environment. And its effect on biofilms could have repercussions for animals in stream food webs, like insects and fish. We need additional studies looking at the concentrations that cause ecosystem disruption, and how they react with other stressors, such as excess nutrients." The other pharmaceuticals investigated also had a measurable effect on biofilm respiration, both alone and in combinations. More work is needed to understand how drug mixtures, which most natural streams experience, impact freshwater systems. Society's dependence on pharmaceuticals is not likely to wane. Nor is its need for clean, fresh water. This study adds another piece of evidence to the case calling for innovations in the way we manage waste water. Currently, only a fraction of the world's waste water is treated, and the infrastructure in many developed nations is aging

Measuring Microbes Makes Wetland Health Monitoring More Affordable, Says Researcher

Apr. 9, 2013 – Wetlands serve as Earth's kidneys. They filter and clean people's water supplies while serving as important habitat for many species, including iconic species like cattails, cranes and alligators. Conventional ecosystem health assessments have focused on populations of these larger species. However, the tiny, unseen creatures in the wetlands provided crucial indicators of the ecosystems' health in a study by University of Missouri Associate Professor of Engineering Zhiqiang Hu and his team. Using analysis of the microbiological health of wetlands is cheaper and faster than traditional assessments, and could lead to improvements in harnessing natural processes to filter humans' wastewater. Read more...

http://www.sciencedaily.com/releases/2013/04/130409132010.htm?utm_source=dlvr.it&utm_medium=twitter&utm_campaign=Feed%3A+sciencedaily%2Fearth_climate+%28ScienceDaily%3A+Earth+%26+Climate+News%29

Theoretically, rainwater harvesting and reuse has a number of tangible benefits

Stormwater May 2013 – It's a free source of water that can be obtained with something as simple and inexpensive as a rain barrel collecting rooftop runoff. It can reduce the load on stormwater systems, which can in turn result in fewer pollutants entering local bodies of water. It can decrease the use of potable municipal water for nonpotable needs. A lot of energy is required to obtain, clean, and transport water; if demand decreases as a result of rainwater harvesting, less energy will be required to process a lower demand for potable water. Both homeowners and business owners may see a reduction in their water bills and stormwater fees. LEED credits may be available for some applications. With some setups, it can offer an independent supply of water, separate from the local municipal system (e.g., in case of possible contamination of the water system). Nevertheless, rainwater harvesting isn't without controversy, with sometimes strong opinions espousing opposite sides of a number of issues. Read more...

<http://d27vj430nutdmd.cloudfront.net/4264/152099/e4e9129554cd3cc2ea30d139c616657a57041862.25.pdf>

Barriers to Implementing LID – Overcoming ordinances, attitudes, and technical issues

Stormwater May 2013 – Low-impact-development stormwater management approaches are gaining in popularity and are being increasingly written into permitting requirements. While a number of barriers to implementation continue to come into play, advocates are finding more solutions to those obstacles, according to experts across the country. "We cannot just trumpet the wonderful qualities of LID without also hearing about the barriers, understanding them, and trying to address them," observes Bruce Wulkan, senior policy advisor of the Puget Sound Partnership. "That's what we've tried to do for years." The Puget Sound Partnership, a state agency created in 2007 to mobilize public and private resources to restore and protect the 1.6-million-acre body of water and its 2,500 miles of shore-line, defines the process and goal of low-impact development as "developing land and managing stormwater to imitate the natural hydrology (or movement of water) of the site." Among its benefits, according to the Partnership's website, are helping to reduce flooding and protecting property, helping to protect human health by more effectively removing pollutants from stormwater, protecting drinking water supplies by ensuring rainwater infiltrates where it can recharge aquifers, providing cost-effective alternatives to system upgrades, and even increasing public safety. ("One of the hallmarks of LID is more narrow streets. Studies show that when vehicle traffic is slowed, there are fewer pedestrian accidents and fatalities.") "It's something that everyone needs to be fluent with at this point in order to meet basic requirements with stormwater permits," explains Amie Broadsword, LEED AP, a civil engineer and project manager with Kirkland, WA-based PACE Engineers. Broadsword, Wulkan, and others divide barriers into nine categories:

- Local code limitations

- Unfamiliarity
- Preconceived notions
- Perceived and real costs
- Soil and meteorological conditions
- Risk and liability
- A lack of federal investment in research
- Mounting demands and diminished resources at the local level
- Multi-departmental interaction

Even within her own professional circle, Broadsword acknowledges, she encounters a “spectrum of perspectives from colleagues as to how far to implement LID approaches. Read more...

<http://d27vj430nutdmd.cloudfront.net/4264/152099/e4e9129554cd3cc2ea30d139c616657a57041862.25.pdf>

Pennsylvania Leads Dams Removed to Restore Rivers in 2012

Washington, DC – Communities in 19 states, working in partnership with non-profit organizations and state and federal agencies, removed 62 dams in 2012, American Rivers announced today. Outdated or unsafe dams came out of rivers in California, Connecticut, Georgia, Illinois, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, Vermont, Washington and Wisconsin, restoring 400 miles of streams for the benefit of fish, wildlife and people across the country.

American Rivers will add the information on these 62 dam removals to its database of nearly 1,100 dams that have been removed across the country since 1912. Most of those dams (nearly 800) were removed in the past 20 years. American Rivers is the only organization maintaining a record of dam removals in the United States and uses the information to communicate the benefits of dam removal, which include restoring river health and clean water, revitalizing fish and wildlife, improving public safety and recreation, and enhancing local economies. “The river restoration movement in our country is stronger than ever. Communities nationwide are removing outdated dams because they recognize that a healthy, free-flowing river is a tremendous asset,” said Bob Irvin, President of American Rivers. The top three states for river restoration through dam removal in 2012 are: Pennsylvania – 11 dams; Massachusetts – 9 dams; and Oregon – 8 dams. The complete list of dam removals in 2012 is available at <http://www.americanrivers.org/2012damremovals>. American Rivers played a role in 24 of the dam removals in 2012. This list includes all known dam removals, regardless of the level of American Rivers’ involvement.

Pennsylvania Stormwater Legislative Update

Pennsylvania Senate Bill 351 (Sponsored by Senator Erickson) just cleared the Senate Appropriations Committee today and will likely be voted on by the Pennsylvania Senate tomorrow. The Bill would allow municipalities to form a Stormwater Authority that can perform stormwater services at a lower rate than a single municipality. This is essentially the same legislation that made it to the House Local Government Committee last year. There is already a House version of this Bill (HB 821 sponsored By Representative Harper), and once again I urge you to let your Representative know you support this legislation. This legislation is needed because Pennsylvania municipalities must raise about 250 million dollars to pay for stormwater during the next 5-years. That price does not include the estimated 21 billion dollars needed over the next 20 years by communities in Pennsylvania with Combined Sewer and Stormwater Systems that could also benefit from this legislation. Without this legislation, most municipalities will have no choice except to raise taxes. Funding stormwater services through taxes is more expensive to a homeowner than funding through a Stormwater Authority. Many of you who are receiving this email are municipal officials who have seen my presentation on Funding Stormwater over the last year. There is news for you; PADEP may not complete processing the NPDES MS4 permits until September. This might delay the need for developing your Watershed Implementation Plan (the thing that is driving the higher costs), but it is unlikely to reduce the final cost. Please feel free to contact me for additional information. Mark Derham Bowen, P.E., C.F.M., Senior Ecological Engineer, Kleinschmidt, Office: (717) 687-7211 EXT 322. Direct Line: (717) 983-4313

7 Chemical-Free Fixes for Common Lawn Problems

Most of your lawn’s problems can be fixed with simple maintenance, not floods of expensive chemical fertilizers or pesticides. What you can do: Fix the underlying problem before you resort to unhealthy chemicals. By some estimates, our chemically addicted lawns are as polluting to our health and to waterways as chemical agriculture. The U.S. Environmental Protection Agency says that Americans apply 90 million pounds of pesticides and herbicides every year in order to get lush green yards, and surveys have found that because their use is so heavy, those chemicals can drift into our homes—even if they started out on a neighbor’s lawn and not our own. However, like many problems for which chemicals seem like a quick, easy fix, lawn problems can usually be corrected without nerve-damaging and ecologically hazardous chemicals like glyphosate (used in Roundup) and 2,4-D (used in products made by Scotts and Weed B Gone). Here are some of the most common lawn and yard problems you’ll encounter, what they signify, and how to fix them: Read more... http://www.organicgardening.com/living/7-chemical-free-fixes-common-lawn-problems?cm_mmc=LivingLightlyNL-1253386-04082013-7_chemical_free_fixes_for_common_lawn_problems_title

Storing Water

Droughts occur periodically over much of the United States. In Pennsylvania, severe droughts have occurred more frequently over the past two decades. During droughts, water supplies often become critically low. In some cases, whole communities are either without water or have very limited supplies. Water use restrictions are often imposed on the residents of these communities. Read more...

http://extension.psu.edu/natural-resources/water/discovery-watersheds/news/2013/storing-water?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%253A+agsci-water-watershedwinds+%2528Penn+State+Watershed+Winds+Newsletter%2529

Make Youth Environmental Education Part of Your Priorities

During National EE Week, and throughout the year, help youth receive the benefits of environmental education experiences with the help of Penn State Extension programs and resources. High school students exploring the stream near their school property and learning how to assess the water quality. April 14-20, 2013 is National Environmental Education Week (or EE Week for short), and across the country many educators and organizations will be ramping up their efforts to improve the overall environmental knowledge of youth. You can include youth education as part of your efforts as well, either during EE week or any time of year. Do you have a site being restored that would make a great

destination for a field trip, perhaps for a school environmental club, scout troop, or 4-H club? Does your organization have public awareness events that could be enhanced by adding youth activities? Are you planning a stream clean-up day where youth groups could help and also engage in learning? Penn State Extension and the Department of Ecosystem Science and Management offer a wide variety of programs and resources designed to educate youth, teachers, and other youth educators about renewable natural resources. We accomplish this work through the Pennsylvania 4-H Youth Development Program, curriculum resources for schools and environmental education centers, and teacher trainings. These tools are all available to you, and can be just the right thing to help you enhance the roll of youth in your environmental education mission. Some great examples of opportunities include the [4-H Stream Teams Program](#), the [From the Woods Publication Series](#), the [Junior Forest Steward Program](#), and the many [4-H Project Opportunities](#) that cover environmental topics. Teaching youth about the environment and encouraging them to get outdoors creates a multitude of benefits to the youth, the community, and the environment. Youth increase their knowledge and their environmental literacy, but also develop valuable life skills like decision making, relationship building, and stewardship. Youth also benefit from positive health improvements such as increased physical activity, stress reduction, attention restoration, and healthy development, according to the [National Environmental Education Foundation](#). You can learn more about EE Week by visiting <http://www.eeweek.org/>. You can learn more about the programs offered by Penn State Extension by visiting <http://extension.psu.edu>.

NOAA Releases Activity Book: "Discover Your Changing World with NOAA"

Ten Activities to Introduce You to the Essential Principles of Climate Science. Are you ready to discover your changing world? This free activity book will introduce you to the essential principles of climate science, help you learn about Earth's climate system, the factors that drive and change it, the impacts of those changes, and what you can do to explore, understand, and protect our Earth. To download the full activity book or view individual activities, visit: <http://oceanservice.noaa.gov/education/discoverclimate/>.

Plant a Tree in Celebration of Arbor Day

Since 1872, Americans have recognized the importance of trees by dedicating a day to planting. The Nation observes it on the last Friday in April. Trees protect air is always the first Wednesday in April, while the nation as a whole observes it on the last Friday in April. Trees protect air and water quality, reduce energy costs, increase property value, and beautify neighborhoods and highways. [Learn more](#) about native species, when and where to plant, and special offers today!

Public Participation Ideas Due To DEP Citizens Advisory Council – Apr 26

The [Citizens Advisory Council](#) to the Department of Environmental Protection is asking the public for ideas on how to improve public participation in developing environmental regulations and policies, according to John Walliser, Council Chair. Public suggestions are due April 26.

iConservePA.org H2O Webpage Fills Up With New Water Content

[iConservePA's website](#) is turning its focus to water. We've added new content to help you use water wisely in all aspects of your life. At [home](#), we can make simple choices inside and outside the home that help save money and water. If you are involved in your [community's](#) decision making, you know that managing storm water, providing access to water-based recreation, and protecting water supplies are vital to citizens' health and well-being. If you are an [outdoor enthusiast](#), you know our lakes, rivers and streams provide natural beauty and countless opportunities for exploration and adventure. Log on today to find daily tips and new ways to conserve. We've also added a [My Conserve](#) section that breaks down topics and links by how you define your role in conservation. Of course, you'll still find [native garden templates](#), a native plants [database](#), [energy saving ideas](#), [tree planting tips](#), ways to [live local](#), and so much more. And don't forget to follow us on [Twitter](#) and [Facebook](#) to join our conversation on conservation.

StormwaterPA Video On Rain Gardens. Saving Streams One Yard At A Time

Do you like gardening? Do you love seeing birds and butterflies at flight in your yard? Creating a rain garden offers therapeutic exercise, attracts wildlife, and helps keep stormwater runoff from overburdening sewer systems—or entering local streams. [Click Here](#) to see a [StormwaterPA website](#) video, "Rain Gardens, Saving Streams One Yard At A Time." A rain garden is an attractive landscaped area planted with wildflowers and other vegetation (preferably native to the area) that has been designed to collect water that runs off a roof, driveway, or other parts of a property, including area lawns. Rain gardens are intended to fill with water during storms and slowly filter the water into the ground. Rain gardens are an economical way of dealing with rainfall the way nature intended by infiltrating, slowing down, and reducing the volume of runoff that enters a stormwater system. During heavy rains, they can prevent storm sewer overflows that can end up in our rivers and streams. Rain gardens not only keep rainwater on your property and out of the sewer system, they offer an attractive alternative to manicured lawns, adding beauty and value to a neighborhood. And, they provide important habitat for birds, butterflies, and other beneficial insects. For more ideas on how you can protect and restore the environment, visit the [iConservePA.org](#) website.

Latest Issue Of Chesapeake Bay Journal Available

[The April issue](#) of the Chesapeake Bay Journal is now available and features how other states are supporting agricultural best management practices, a Maryland study of impacts of gas drilling and much more. [Click Here](#) to read your copy and to get added to the Journal's email list.

DEP Celebrates Earth Month With Full Calendar Of Environmental Activities

The Department of Environmental Protection kicked off Earth Month Monday with the launch of its [Earth Day Central](#) webpage and the announcement that the agency will display its interactive "[DEP at Home](#)" exhibit in the East Wing Rotunda of the State Capitol Building in Harrisburg, Dauphin County, from April 22-26. Earth Day on Monday, April 22, is an annual global observance that reminds people to do their part to care for the Earth's air, land and water. DEP at Home is an interactive, educational exhibit fashioned into a home structure that features practices and products promoting energy efficiency and environmentally beneficial products for the home. It was created through a grant provided by the U.S. Department of Energy's State Energy Program. The Pennsylvania State Capitol Building is open to visitors weekdays from 7 a.m. to 6 p.m. DEP's energy experts will be at the exhibit daily from 11 a.m. to 2 p.m. to answer visitors' questions and share details about the exhibit. All visitors must go through a visitor entrance to gain access to the Capitol.

April is EARTH MONTH!

Here are things you can do, where you live or online. Learn - Teach - Share: sign up to get a daily environmental tip by email during April and listen to the daily audio tip podcast. <http://www.epa.gov/earthday/tips.htm>



WATERSHED FACILITATION ASSISTANCE

Planting Trees to Sustain Clean Fresh Water – Apr 17

Come explore the science behind the important role trees play in the quantity and quality of fresh water. Learn why and how they have become a key part of watershed restoration efforts and pollution abatement programs for our rivers and estuaries. Find out how you can become part of the effort to restore clean fresh water by planting trees in your backyard. Join us for a free lecture presented by Bernard W. Sweeney, Ph.D., President, Director and Senior Research Scientist, Stroud Water Research Center. Wed., April 17. At The Meeting House at [Stroud Water Research Center](#). Doors open at 6 p.m. for a free wine and cheese reception and tour of our Moorhead Environmental Complex. Lecture will begin at 7 p.m. and end no later than 8 p.m. Lecture is FREE and open to the public, ages 12 and up. No registration is required. Questions? Contact Kay Dixon, 610-268-2153, ext. 303, kdixon@stroudcenter.org

Watershed Arithmetic – Crediting & Counting Your Watershed Practices Towards TMDL Goals – Apr 17

Webcast April 17, 12pm to 2pm EST. [Registration](#) deadline is April 12. Members receive \$60 discount per registration! This webcast will cover two approaches to counting watershed practices that quantify and report the pollutant load reduction benefits to satisfy TMDL implementation in the Chesapeake Bay and EPA Region 1. Learn about the commonalities between these approaches and how to adapt them for local conditions. This discussion is relevant to our national audience. Tom Schueler and Cecilia Lane from the [Chesapeake Stormwater Network](#) will provide insights from the EPA BMP expert panels, which they facilitate. The panels recommend practice efficiencies for jurisdictions to report, track, and verify pollutant load reduction for the Chesapeake Bay. Newton Tedder, EPA Region 1, and Kate Bowditch and Julie Wood from the [Charles River Watershed Association](#) in Massachusetts, will discuss the New England permits, TMDLs, and load reduction requirements. Their presentation will showcase newly developed tools to report structural and non-structural pollutant load reductions that help local government and watershed groups meet permit requirements.

Webcast on "Overcoming the Uncertainty Barrier to Adaptation" – Apr 17

Time: 1:00-2:30 p.m. EDT. This is the second in a three-part webcast series on climate change adaptation hosted by EPA's State and Local Climate and Energy Program. Experts and local government staff will address the challenge of planning for climate change in the face of uncertainty. Through presentations on best practices, case studies, and an interactive panel discussion, experts will discuss how to look at historical information to understand future vulnerability and how to use downscaling tools that are appropriate for local governments of various sizes and capacities. The third webcast in the series: "Attracting Funding for Adaptation" will be held on May 1, 2013. To register for the April 17th webcast, please visit: <https://www2.gotomeeting.com/register/587592314>. For more information, visit EPA's State and Local Climate and Energy Program website at: <http://www.epa.gov/statelocalclimate/>.

April Urban and Community Webinar: WATERSHED FACILITATION ASSISTANCE – Apr 18

The next NACD Urban and Community Conservation Webinar, scheduled for April 18 at 11 a.m. (EST), will focus on the NRCS Land Evaluation and Site Assessment (LESA). This system helps state and local officials make sound decisions about land use. LESA is another tool that can be used by districts for their work with community leaders including planning water and natural resource projects for sewage, water, and transportation systems as well as farmland protection. Bob Dobos, Soil Scientist from the NRCS National Soil Survey Center in Nebraska, will give an overview of LESA while Ed Hoxsie, Executive Director of the Dutchess SWCD in New York, will share how his district has used it. Held on the third Thursday of each month, these one-hour webinars cover topics that include district and other speakers. This webinar series is sponsored by The Scotts Miracle-Gro Company. While there is no cost to participate, space is limited to 100 registrants on a first-come, first-serve basis. Contact Debra Bogar at deb-bogar@nacdnet.org to sign up for the April webinar by sending an email with your name, title, district or business name and your email address. Information on how to access the webinar will be sent by email.

SECOND BUNKER HILL ROAD, PEACH BOTTOM TOWNSHIP ILLEGAL DUMPSITE CLEANUP EVENT SCHEDULED – Apr 20

York, PA – (April 9, 2013) – The Bunker Hill Road illegal dumpsite cleanup effort in Peach Bottom Township, York County is being organized by Keep York County Beautiful. Attached is report of successful cleanup event which occurred in 2012 at Bunker Hill Road. Cleanup funding and resources are being provided by Peach Bottom Township, York County Solid Waste Authority, York County Commissioners, Penn State Extension-York County West Nile Virus Program and Keep Pennsylvania Beautiful. The event will take place on Saturday, April 20, 2013, from 9AM to 12PM. Volunteer help is needed and greatly appreciated. All volunteers should dress for safety by wearing long pants/shirts and sturdy shoes. Youth Volunteers ages 12-17 must complete a Keep Pennsylvania Beautiful Volunteer Waiver Form with signed parental consent prior to participating. Safety vest, gloves, and trash bags will be provided. Volunteers should meet at Bunker Hill Road, located near Bunk Hill Avenue and Main Street, Delta Borough, York County at 9AM. Flyer with Volunteer Waiver Form is attached. For directions and more information, please contact Thomas Smith at 717-840-2375 or email at TLS35@psu.edu.

National Drug Take Back Day – York County Locations – Apr 27

Take advantage of 6 Giant stores participating in the York-Adams Pharmaceuticals Alliance's 6th National Drug Take Back event April 27; 9:00 AM to 2:00 PM! All prescription and non-prescription drugs and personal care products accepted. FREE! If you cannot make it to one of these stores, then you may take your prescription drugs to the York County Solid Waste Authority for disposal.

- Dover – Palomino Dr.
- Hanover (Eisenhower Dr.)
- Hanover (Baltimore St.)
- Red lion – Cape Horn

- York – Carlisle Rd.
- York – Pauline Dr.

HANOVER TROLLEY TRAIL, JACKSON TOWNSHIP ILLEGAL DUMPSITE CLEANUP EVENT SCHEDULED – Apr 27

York, PA – (April 12, 2013) – The Hanover Trolley Trail illegal dumpsite cleanup effort in Jackson Township, York County is being organized by Keep York County Beautiful. Cleanup funding and resources are being provided by Jackson Township, Jackson Township Sewer Authority, York County Solid Waste Authority, York County Commissioners, Penn State Extension-York County West Nile Virus Program and Keep Pennsylvania Beautiful. The event will take place on Saturday, April 27, 2013, from 9AM to 12PM. Volunteer help is needed and greatly appreciated. All volunteers should dress for safety by wearing long pants/shirts and sturdy shoes. Youth Volunteers ages 12-17 must complete a Keep Pennsylvania Beautiful Volunteer Waiver Form with signed parental consent prior to participating. Safety vest, gloves, and trash bags will be provided. Volunteers should meet at the Hanover Trolley Trail access parking area located off of Hershey Road, Jackson Township, York County at 9AM. Flyer with Volunteer Waiver Form is attached. For directions and more information, please contact Tom Smith at 717-840-2375 or email at TL335@psu.edu.

Webinar on New EPA Stormwater Rules – Apr 30

The Clean Water for Healthy Communities Coalition, together with the Efficiency Cities Network, Mayors Innovation Project and U.S. Water Alliance, invite you to join in an informative and interactive webinar about EPA's highly anticipated national stormwater rulemaking. The webinar will feature U.S. EPA, local government, water utility and stormwater design professional perspectives, and will provide an opportunity for participants to engage in a dialogue about the content and likely effects of this rulemaking. Date: Tuesday, April 30; Time: 1 pm Eastern (call will last for 1.5 hours). Our featured speakers: Mayor David Pope, Oak Park, IL, Christopher Kloss, US EPA, Kevin Shafer, Milwaukee Metropolitan Sewerage District, Charlotte Katzenmoyer, City of Lancaster, PA, and Michele Adams, Meliora Designs. [Click here](#) to register for the call. Questions and Technical Problems: If you have any questions in advance of this webinar, please contact ecn@efficiencycities.org. On the day of the call, if you experience technical problems, please contact Michelle Bright at mbright@cow.org or 608.890.2543.

Workshop– Funding & Financing for Water Management with Green Infrastructure in York, PA – May 1

A Workshop presented by American Rivers and the Environmental Finance Center May 1, 2013, 10 AM, Elks Lodge #213, 233 N. George St., York, PA. On May 1st, we will discuss planning strategies to support programs for sustainable water management and community vitality for greater York. During lunch we will hear from Nicholas DiPasquale, Director of U.S. EPA's Chesapeake Bay Program. The entire forum will have plenty of opportunity for discussion. For background, if you were not able to attend our series of webinars, Benefitting from Green Infrastructure, the recordings are here:

- 1st--Benefits of Green Infrastructure American Rivers' February 5th webinar on valuing the multiple benefits of green infrastructure: <http://americanrivers.adobeconnect.com/p9pjgjf85lw/>
- 2nd--Green Infrastructure Funding Programs Presented February 27th by: the Pennsylvania Infrastructure Investment Authority (PENNVEST), PA- Department of Conservation & Natural Resources and the Water Resources Education Network. Recording link: <http://americanrivers.adobeconnect.com/p28i74ta41m/>
- Last--Financing Strategies for Green Infrastructure Programs cost reducing measures revenue generating mechanisms market-based programs tools and resources, Presented by the University of Maryland's Environmental Finance Center

Because we had background noise through the first set of slides, the recording starts with discussion of state revenue generators. The beginning discussion can be viewed in the attached pdf of the entire webinar; the recording picks up at page 22 (of 59) of the pdf:

<http://americanrivers.adobeconnect.com/p8skzwhztk/>

Look forward to seeing you May 1st; if you plan to attend please RSVP-Ideardorff@americanrivers.org.

York County Senior Environment Corp Training for 55+ Volunteers – May 4

Attached you will find a flyer for an educational event to train seniors, 55 and over, to help perform stream water monitoring in York County. The event is scheduled for Saturday, May 4, 2013, from 10 AM to 2 PM, and will be held at the York County Annex Building. Lunch is included. Space is limited. Please register by April 26, 2013. Contact Penn State Extension at 717-840-7408 or email Tom Smith at TL335@psu.edu

KAYAK DEMO DAYS ON THE SUSQUEHANNA RIVER – May 11-12

Touring kayaking continues to be one of the most popular water sports activities in the U.S. today. With easy access to lakes, streams, and the Lower Susquehanna River Water Trail in both York and Lancaster counties, opportunities for paddlesports abound in our area. Saturday, May 11, 2013 from 10am-4pm, and Sunday May 12, 2013 from Noon-4pm, participants can test paddle a wide array of touring kayaks. Also featured this year will be stand-up paddleboards, a growing member of the paddlesports family. The event is sponsored by Shank's Mare Outfitters located on the Susquehanna River at 2092 Long Level Road, 5 miles south of Wrightsville on Rte. 624. This program is free of charge. Besides having the opportunity to test paddle many different models of recreational, touring, and fishing kayaks and stand-up paddleboards, factory representatives and the experienced staff of Shank's Mare will be on hand to answer questions about this popular activity and how to join in Shank's Mare's many paddlesports programs offered throughout the season. Shank's Mare Outfitters has been offering instruction, day tours, extended trips, kid's camps, and equipment sales in paddlesports and outdoor activities since 1978. Shank's Mare, 2092 Long Level Road, Wrightsville, PA 17368. Ph. 717-252-1616. Web www.shanksmare.com. Email info@shanksmare.com

4th Annual Choose Clean Water Conference: "Clean Water Works" – June 4-5

June 4-5, 2013, Tremont Hotel, Baltimore, MD. <http://choosecleanwater.org/our-conference/2013/>. Join regional leaders from local watershed organizations, environmental and conservation organizations, the philanthropic community, and government officials to discuss strategies necessary to restore the hundreds of streams and rivers that flow into the Chesapeake Bay. Our panel discussions, workshops, and networking opportunities will focus on solutions - ideas to reduce water pollution and how to finance these improvements plans. Learn how Baltimore is using green infrastructure investments to enhance neighborhood quality of life, mitigate flooding and drive job creation. Baltimore provides strong examples of how communities can reconnect to their local waters. Program highlights include: Financing clean water projects;

Stormwater utility campaigns; Impacts of pollution on human health; Fracking and land use; Partnerships to grow green jobs; Connecting faith-based groups and environmental groups. The early bird registration rate is \$150 until May 10th which includes two days of programming, all meals including the award dinner which will be held at the National Aquarium, and field trips. After May 10, the conference cost is \$175. We have scholarships available to our members. We are pleased that The Right Reverend Eugene Taylor Sutton, Bishop of the Episcopal Diocese of Maryland, will be our key note speaker. Bishop Sutton is a dynamic speaker and has set out on a personal mission to make the Diocese of Maryland and its Churches more "green." Deb Kleiner, Communications Manager, Choose Clean Water Coalition, Ph: 443.759.3409, 706 Giddings Ave, Suite 1-B, Annapolis, MD 21401. www.ChooseCleanWater.org



WATERSHED FINANCIAL ASSISTANCE

Audubon, Toyota TogetherGreen Grants Due – Jun 7

Toyota Tuesday announced a \$3.5 million grant to The National Audubon Society to extend Toyota TogetherGreen, a national initiative that invests in emerging conservation leaders and funds innovative community-based conservation projects throughout the United States. The deadline for applications is June 7. Now in its sixth year, Toyota TogetherGreen has engaged nearly 370,000 people in conservation action to date. In 2013, Toyota TogetherGreen will continue to support:

- Fellowships: Forty Toyota [TogetherGreen Fellows](#) will receive \$10,000 grants as well as specialized training and support to help develop and implement 12-month conservation projects in their communities;
- Innovation Grants: Up to 40 [TogetherGreen Innovation Grants](#) ranging from \$5,000-\$80,000 will be given to support cutting-edge conservation projects that address habitat, wildlife, water, or energy issues in local communities; and
- Exit the Highway: A summertime digital campaign will inspire people to get outdoors and spend more time in nature. By submitting scenic photos of nature, participants can enter to win a Toyota Prius v. To learn more, visit the [Exit The Highway](#) website.

Audubon and Toyota created the Toyota TogetherGreen initiative in 2008 through a \$20 million grant from Toyota. The program has expanded the scope and reach of Audubon's conservation action nationwide with impressive results—15 million gallons of water conserved, 188,931 native trees and plants planted, 17,357 acres restored or conserved and more than 1,000 tons of recyclables collected. Funding recipients have multiplied their impact by translating their dollars into \$7.2 million in matching funds and \$8.8 million worth of volunteer time.

To apply, visit the Toyota [TogetherGreen Fellowship](#) or [TogetherGreen Innovation Grant](#) webpages for application guidelines, selection criteria, eligibility, benefits, and online applications for both programs.

Project Learning Tree Grants Available For Classrooms – Sep 30

[Project Learning Tree](#) is now accepting applications from schools and nonprofit organizations for environmental service-learning projects.

Deadline for applications is September 30. Do you have an idea for a school/community native plant garden, a forest improvement project, a streamside restoration plan, a recycling program, or energy conservation project for your students? Need funds to implement it? Apply for a Project Learning Tree GreenWorks! grant! Traditional GreenWorks grants of up to \$1,000 will be awarded in support of environmental projects that demonstrate service-learning, exemplify student voice, involve at least one community partner, and can be completed within a year. To be eligible, projects must secure at least 50 percent in matching funds (in-kind acceptable). GreenWork! grants for registered PLT GreenSchools of up to \$3,000 support projects that meet all the parameters for traditional GreenWorks grant funding are also available. To be eligible, applicants must be a school (public or private), be registered on the PLT GreenSchool! Web site, have an established Green Team, have completed one or more of the PLT GreenSchools Investigations, and propose a project based on the findings of one or more of the PLT GreenSchools Investigations. For more information and applications, visit the [Project Learning Tree](#) website.



WATERSHED TECHNICAL ASSISTANCE

Chesapeake Bay TMDL Urban Stormwater BMPs Guidance

The following link has most of the documents from urban BMP expert panels that have been approved and some spreadsheets that have been developed to assist calculations. The link also indicates a series of webcasts tomorrow on the various expert panel documents.

<http://chesapeakestormwater.net/2013/03/urban-bmps-and-the-bay-tmdl-webcast/>. The Final Recommended Principles and Protocols for Urban Stormwater BMP Verification document is also located on this page.

Ag Producers Learn About Water Quality Effects on Pesticide Spray Applications

Penn State Extension is delivering an important message to pesticide applicators in Pennsylvania this year on the impact of water quality on pesticide performance. Read more... http://extension.psu.edu/natural-resources/water/discovery-watersheds/news/2013/ag-producers-learn-about-water-quality-effects-on-pesticide-spray-applications?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%253A+agsci-water-watershedwinds+%2528Penn+State+Watershed+Winds+Newsletter%2529

http://extension.psu.edu/natural-resources/water/discovery-watersheds/news/2013/ag-producers-learn-about-water-quality-effects-on-pesticide-spray-applications?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%253A+agsci-water-watershedwinds+%2528Penn+State+Watershed+Winds+Newsletter%2529

http://extension.psu.edu/natural-resources/water/discovery-watersheds/news/2013/ag-producers-learn-about-water-quality-effects-on-pesticide-spray-applications?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%253A+agsci-water-watershedwinds+%2528Penn+State+Watershed+Winds+Newsletter%2529

Top 10 Best Complete Streets Cities

In 2012, 125 cities, states and regions passed policies to make streets safer and more convenient for everyone who uses them. These communities are part of the growing movement to create Complete Streets, and the movement is stronger today than ever before.

There are now 488 Complete Streets policies in place across the country at all levels of government. That's a remarkable achievement. Ten policies from 2012 stand out as leaders in the Complete Streets field. The communities have gone the distance to craft exceptional policy language—and your community might be one of them. [See the top 10 best Complete Streets policies in the country >>](#). The National Complete Streets Coalition examined each policy passed last year and scored them based on 10 elements of ideal policy language. The annual ranking is intended in part to celebrate the communities that have done exceptional work in the past year, as well as to give other communities an

example to follow in writing their own Complete Streets policies. In addition to the annual rankings, the new report also contains tips and tools for communities interested in creating a Complete Streets policy of their own. [Read the full report today >>](#)

25x'25 Report Offers Conservation Advice for Changing Times

A recent report produced by the 25x'25 Alliance's Adaptation Work Group, "[Agriculture and Forestry in a Changing Climate: Adaptation Recommendations](#)," offers various pathways in the areas of research, production systems, risk management, decision tools, and outreach for building a more resilient agriculture and forestry system. According to the Alliance, many farmers, foresters, and ranchers throughout the United States are adjusting their operations to reduce the risks associated with increasingly variable and unpredictable weather. In addition, producers are facing unprecedented economic, social, and environmental pressures: feeding, clothing, housing, and fueling a rapidly growing world, making decisions in volatile local and global markets, and managing to continually renew and protect soil, water, and air resources. However, there are many options available to mitigate risks while strengthening production, cutting input costs, and improving the quality of the land – even in the context of weather-related disasters like those experienced in 2011 and 2012. The report is not intended to serve as a definitive set of adaptation recommendations. Instead, it is offered as the beginning of a national dialogue on the steps needed to prepare agriculture and forestry for the road ahead. To access the report and to provide feedback on it, [click here](#).

New Green Infrastructure Planning Guide Supports Resilient Communities

April 11, 2013: The Green Infrastructure Center Inc. (GIC) has released its new planning guide "Evaluating and Conserving Green Infrastructure Across the Landscape: A Practitioner's Guide." Based on six years of field testing from the Delmarva and coastal plain to the Piedmont and Shenandoah Valley, the guide shows communities how to map their most significant natural resources and to make plans to conserve or restore them. Green infrastructure can be thought of as the sum of all our natural resources. It includes all the interconnected natural systems in a landscape, such as intact forests, woodlands, wetlands, parks and rivers, as well as those agricultural soils that provide clean water, air quality, wildlife habitat and food. This guide provides practical steps for creating green infrastructure maps and plans for a community. It draws from twelve field tests GIC has conducted over the past six years to learn how to evaluate and conserve natural resources. These field tests were conducted in a diversity of ecological and political conditions, at multiple scales, and in varied development patterns - from wildlands and rural areas to suburbs, cities and towns. To order a copy of the guide, and learn how together we can connect, conserve and restore Virginia's natural heritage, send a check for \$29.95 made payable to the Green Infrastructure Center or visit: <http://www.gicinc.org/>. To receive a free press copy, email: firehock@gicinc.org

Maintenance: It's Not Just for Your Car

Many of us are familiar with maintenance in some form. Whether it's getting an oil change for the car or unclogging the sink, if we don't get around to it, we usually end up paying in the long run. Maintenance for infrastructure that manages [stormwater runoff](#) works in much the same manner, albeit at a larger scale. Without consistent maintenance, these practices can fail forcing expensive repairs and posing significant health and safety risks. Green roofs, rain gardens, permeable pavement, or any other type of [green infrastructure](#) aren't immune from requiring maintenance. In fact, uncertainty surrounding the appropriate maintenance for these types of practices is often raised as a barrier to their implementation. To help improve available resources for local governments, American Rivers and Green for All released a report, [Staying Green: Strategies to Improve Operations and Maintenance of Green Infrastructure in the Chesapeake Bay Watershed](#) that highlights existing information related to costs of green infrastructure maintenance, identifies the significant barriers and recommends strategies to improve to effective operations and maintenance, and provides resources and case studies that local governments can use as models.

Staying Green and Growing Jobs: Green Infrastructure Operations and Maintenance as Career Pathway Stepping Stones

American Rivers and Green for All also collaborated on a companion report, *Staying Green and Growing Jobs: Green Infrastructure Operations and Maintenance as Career Pathway Stepping Stones* that assesses existing and potential occupations in green infrastructure operations and maintenance, highlights existing workforce development programs, and recommends strategies to improve career opportunities and job quality in the field of green infrastructure operations and maintenance. [Staying Green and Growing Jobs: Green Infrastructure Operations and Maintenance as Career Pathway Stepping Stones](#)

New Issue of On Tap Available Online

A new issue of On Tap, the National Environmental Services Center's drinking water and wastewater magazine, is now available at www.nesc.wvu.edu/ontap.cfm. Formerly printed and mailed to more than 27,000 subscribers, On Tap is now available in an online format only. The fall/winter 2012 issue features articles about how to create a communications plan for your water or wastewater system, information for private well owners, some insight into problem solving, an overview of the U.S. Environmental Protection Agency's Water Laboratory Alliance, and a report about a national survey of wastewater nutrient regulations. This issue also includes a Tech Brief about how to read centrifugal pump curves. As always, we encourage you to use the information in On Tap in your community. All we ask is that you give us credit and let us know how you used it

Proposals Currently Open for Comment

Date Published In PA Bulletin	Proposal	Comment Deadline
3/9/2013	Nutrient Credit Trading Program; Notice of Certification Requests PA Bulletin Notice	4/8/2013
3/23/2013	Draft Technical Guidance: Use of Reclamation Fill at Active Noncoal Sites (DEP ID: 563-2000-301) PA Bulletin Notice	4/22/2013

