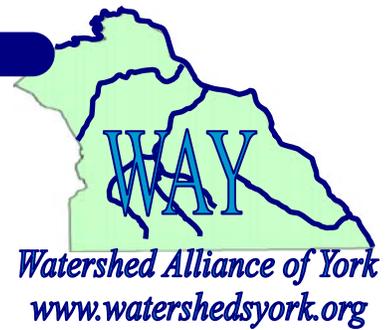


WAY E-NEWS

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



Tuesday, January 1, 2013

A PUBLIC-PRIVATE PARTNERSHIP

Volume 13, Issue 1

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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 – www.york-county.org/gov/AUTH/agri.htm

- For information about farmland preservation in York County contact Patty McCandless at pmccandless@york-county.org or call 717-840-7400.

Carroll Citizens for Sensible Growth - <http://carrollcitizens.com/>

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

Codorus Creek Watershed Association – www.codoruscreek.net

- Jan 14 – 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 – www.yccf.org

- For more information, contact the York County Community Foundation at 14 West Market Street York, PA 17401-1203. Telephone: York 717.848.3733; Hanover 717.630.1843. Email: info@yccf.org

Codorus State Park

- Contact: Manager: Warren Wernitz, Codorus state Park, 2600 Smith Station Road, Hanover, PA 17331-8000. Ph: 717-637-2816; E-mail: codorusssp@pa.gov

Conewago Canoe Club – 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/>

- Contact Lee McDaniel at ldmcdaniel@aol.com.

Farm & Natural Lands Trust of York County – www.farmtrust.org

- Contact: Sean Kenny at Farm & Natural Lands Trust of York County, 156 North George Street, Suite 300, York, PA 17401. Phone (717) 843-4411 or e-mail skenny@farmtrust.org

Gifford Pinchot State Park – 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/Gifford Pinchot State Park, 2200 Rosstown Road, Lewisberry, PA 17339. Phone: 717-432-5011

Gunpowder Valley Conservancy – 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 – www.hornfarmcenter.org

- Contact: Horn Farm Center for Agricultural Education, 4945 Horn Road, York, PA 17406. Phone: (717)654-0571. Email: info@hornfarmcenter.org. Web: www.hornfarmcenter.org.

Izaak Walton League York Chapter #67 – www.yorkchapter67iwla.org/

- Club Open Meetings are held the Third Tuesday of each month at 7pm in the Clubhouse.
- Contact: York Chapter #67 IWLA, 7131 Ironstone Hill Road, Dallastown, PA 17313. Club Grounds Phone: 717-428-2000 *Leave a message for the Committee Contact or Club Officer you are trying to reach. Committee Contacts & Club Officers are listed on the Club Information Page. If no phone or email address is listed contact club grounds phone number.

Lower Susquehanna Riverkeeper – www.lowerSusquehannaRiverkeeper.org

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

Maryland's Upper West Shore Trib Team – <http://www.dnr.state.md.us/waters/tribstrat/>

- Jan. 7 – Trib Team Meeting @ 5:30 p.m. at the McFaul Center, Bel Air. Agenda includes 2013 Meeting Calendar and 2013 goals. If you can't make it to the meeting, but have a goal or two that you would like to get on the table, please drop me a line. Another of our potential meeting topics is a presentation by Brian Smith, whose group has just completed a comprehensive assessment of the UWS which you can find here: <http://mddnr.chesapeakebay.net/eyesonthebay/documents/Upper%20Western%20Shore%20WQ%20and%20H%20Assessment%2012.pdf>. They have assessments for several other basins just out and more should be forthcoming: <http://mddnr.chesapeakebay.net/eyesonthebay/tribsums.cfm>
- Contact: Rupert Rossetti, Tributary Team Coordinator, e-mail: RupertRossetti@aol.com

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

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

Mid-Atlantic Ecological Landscapes Partnership [MAEscapes] – www.maescapes.org

- Jan. 28 – 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@jhmi.edu

[Sierra Club – Gov. Pinchot Group of PA](http://pennsylvania.sierraclub.org/pinshot/) - <http://pennsylvania.sierraclub.org/pinshot/>

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

[Shank's Mare Outfitters GO PLAY OUTSIDE!](http://www.shanksmare.com) - www.shanksmare.com

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

[Spoutwood Farm Center for Sustainable Living](http://www.spoutwood.com) - www.spoutwood.com

- Jan 18 – 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/) - <http://www.susquehannaheritage.org/>

- Contact Mark Platts, Susquehanna Heritage Corporation, 1706 Long Level Road, Wrightsville, PA 17368. Office: 717-252-0229. E-mail: info@lyhr.org.

[Trout Unlimited Codorus Chapter #558](http://www.codorustu.org) - 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. Cancellations due to winter weather will be announced here, and on WSBA Radio, 910 AM.

[Trout Unlimited Muddy Creek Chapter #575](http://muddycreektu.org/) - <http://muddycreektu.org/>

- Chapter Meeting 3rd Wednesday of month at [Collinsville Fish & Game](#)
- Contact: Ron Heuston, President MCTU, 244-1851 or Heuy1955@aol.com

[Watershed Alliance of Adams County](http://www.adamswatersheds.org/) - <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](http://www.watershedsyork.org) - www.watershedsyork.org

- Jan. 9, 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.
- You can make www.goodsearch.com and be sure to enter WAY as the charity you want to support.
- 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](http://www.wecologypa.org/) - www.wecologypa.org/

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

[Yellow Breeches Watershed Association](http://www.ybwa.org) - www.ybwa.org

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

[York-Adams Regional Smart Growth Coalition](http://www.yorkadamssmartgrowth.org) - www.yorkadamssmartgrowth.org

- Contact Shanna Wiest, Government Affairs Director, REALTORS Association of York & Adams Counties, Inc. 901 Smile Way York, PA 17404. Phone: (717) 843-7891. Fax: (717) 854-0720. <http://www.rayac.com>

[York Audubon Society](http://www.yorkaudubon.org/) - <http://www.yorkaudubon.org/>

- Contact Tom Smith at 717-246-9767 or tjs35@psu.edu.

[York County Conservation District](http://www.yorkccd.org) - www.yorkccd.org

- New Wildlife of PA Journal available for purchase \$24.95
- 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](http://www.YorkCountyParks.org) - www.YorkCountyParks.org

- Nixon Park Nature Center, 5922 Nixon Drive, York PA 17403. Phone: (717) 428-1961. E-mail: NixonCountyPark@york-county.org.
- For more information, contact York County Department of Parks and Recreation, 400 Mundis Race Road, York PA 17406-9721. Phone: (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 or



WATERSHED EDUCATION & OUTREACH

CBF releases biannual 2012 State of the Bay report

This morning, CBF released our biannual [2012 State of the Bay report](#). The news warms this cold January morning. The health of the Bay improved one point (to a 32 on a scale of 1-100) over the last report and is up four points—a 10 percent improvement—in just five years. This year's score is the highest since we first released the report in 1998. Our report evaluates indicators in three categories—pollution, habitat, and fisheries. The continuing progress we observe this year shows clearly what can be done when governments, businesses, and individuals work together to save local rivers, streams, and the Chesapeake Bay. While a score of 32 indicates that the Bay and its tributaries are still dangerously out of balance, I am cautiously optimistic. The federal/state [Chesapeake Clean Water Blueprint](#) for the Chesapeake Bay is in place. And, it's beginning to work. In fact, I predict that the 2014 report score will advance further if we continue to roll up our sleeves and reduce pollution. Today, I am proud. You can be, too. But we cannot rest. Much of the Bay and many local waterways don't provide healthy habitat for fish, oysters, and other aquatic life. Pollution has cost thousands of jobs and continues to put human health at risk. We have a choice. Let's finish the job! —Will

EPA Puts Farms Under Pressure for SPCC Plans

Farms now have less than one year to prepare or amend and implement their Spill Prevention, Control, and Countermeasure (SPCC) Plans. The U.S. Environmental Protection Agency's (EPA) SPCC rule includes requirements for oil spill prevention, preparedness, and response to prevent oil discharges to navigable waters and adjoining shorelines. The intent is to reduce the likelihood of spills, minimize clean-up costs should a spill occur, and prevent harm to the environment. Other facilities are required to have SPCC plans also. The EPA is serious about enforcing these requirements. A company in Nantucket faces a penalty of potentially up to \$177,500 for not being in compliance. Read the article [here](#). Farmers should take the compliance date (May 10, 2013) seriously and prepare and implement their plans in the next few months. If oil storage capacity on the farm is less than 10,000 gallons total, a farmer does not have to file the plan with EPA. The plan should be maintained at the location of the farm and be available for review if an EPA representative requests to see it. If a farm has over 10,000 gallons in total oil storage capacity, it will need a professional engineer to certify the plan. For more information, please see [SPCC for Agriculture](#).

Mining Waste Byproduct Capable of Helping Clean Water

Stormwater Solutions – A byproduct resulting from the treatment of acid mine drainage may have a second life in helping clean waters coming from agricultural and wastewater discharges, according to a recent study by scientists from the U.S. Geological Survey Leetown Science Center. The report, published in the journal *Water Air and Soil Pollution*, shows that dried acid mine drainage sludge, or residuals, that result from treating acid mine drainage discharges can be used as a low-cost adsorbent elsewhere to efficiently remove phosphorus from agricultural and municipal wastewaters. The phosphorus that has been adsorbed by the mine drainage residuals can later be stripped from the residuals and recycled into fertilizer. The mine drainage residuals can be regenerated and reused for a number of additional treatment cycles. Application of this novel, patented technology has the potential to simultaneously help to decrease acid mine drainage treatment costs, prevent degradation of aquatic ecosystems and recycle valuable nutrients. Read more...

http://www.estormwater.com/mining-waste-byproduct-capable-helping-clean-water?goback=.gde_1982059_member_197644762

Farm Soil Determines Environmental Fate of Phosphorus

Science Daily – Just 20 years ago, the soils of the Amazon basin were thought unsuitable for large-scale agriculture, but then industrial agriculture – and the ability to fertilize on a massive scale – came to the Amazon. What were once the poorest soils in the world now produce crops at a rate that rivals that of global breadbaskets. Soils no longer seem to be the driver – or the limiter – of agricultural productivity. But a new Brown University-led study of three soybean growing regions, including Brazil, finds that soils have taken on a new role: mediating the environmental consequences of modern farming. Read more... <http://www.sciencedaily.com/releases/2012/12/121217152649.htm>

Water and Your Milk Supply

PSU Coop Extension – While many people never step foot on an actual dairy farm, they do reap many benefits from the items produced there. According to a Wisconsin dairy study, an average American consumes over 200 pounds of milk and 32 pounds of cheese a year. In order to enjoy that cold glass of milk or the cheese on our cheeseburgers, cows need a continuous supply of good quality water in order to continue to produce good quality milk. Read more... http://extension.psu.edu/water/discovery-watersheds/news/2012/water-and-your-milk-supply?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+agsci-water-watershedwinds+%28Penn+State+Watershed+Winds+Newsletter%29

Animals Contribute to Seagrass Dispersal: Fish, Terrapins, and Birds May Help Spread Eelgrass Seeds Into New Areas

Science Daily – Look out the window and you're likely to see the dispersal of seeds – dandelion tufts in the wind, a squirrel burying an acorn, a robin flying off with a dogwood fruit. You might even have a burr "velcroed" to your sock. Sarah Sumoski, a recent graduate of the Virginia Institute of Marine Science, has now published a study of seed dispersal in a less-familiar environment – the eelgrass beds of Chesapeake Bay. The study – the first to show that marine animals can disperse eelgrass seeds – appears as the featured article for the Dec. 19th issue of *Marine Ecology Progress Series*. It is co-authored by Dr. Robert "JJ" Orth, head of the Seagrass Monitoring and Restoration program at VIMS and Sumoski's major professor. Eelgrass – like other seagrasses – is a flowering plant that reproduces both by sending out rhizomes (like

crabgrass) and producing tiny underwater seeds (like the fescues of many lawns). Eelgrass beds play a key ecological role in Chesapeake Bay and other coastal ecosystems but are in decline worldwide due to cloudy waters, warm temperatures, and excess nutrients that encourage the growth of light-stealing algae. Understanding how seagrass seeds are dispersed is important for guiding efforts to restore seagrass meadows in Chesapeake Bay and other coastal ecosystems, and for informing the models that are used to guide seagrass management plans and restoration efforts. Read more... <http://www.sciencedaily.com/releases/2012/12/121219174202.htm>

Philadelphia's Smart Growth Projects Featured

A recent article in Grist Magazine highlighted the many smart growth projects underway in Philadelphia, including the city's "Office of New Urban Mechanics," which is dedicated to city innovation and problem-solving. Other Philadelphia projects featured include the city's bike sharing and land bank programs, as well as the more than 350 urban gardens within the city limits. Read more... <http://grist.org/news/from-bike-shares-to-urban-farms-philadelphia-is-on-the-rise/>

Death of Hemlock Trees Yields New Life for Hardwood Trees, but at What Cost to the Ecosystem?

Science Daily – Due to the introduction of exotic pests and pathogens, tree species are being eliminated one by one from forest ecosystems. In some cases, scientists can observe immediately how their loss affects the environment, whereas in other cases, creative puzzle solving and analysis reveal unexpected repercussions. In the case of the loss of the hemlock tree, University of Illinois landscape and ecosystem ecologist Jennifer Fraterrigo uncovered a surprising benefit to hardwood species. Read more... <http://www.sciencedaily.com/releases/2012/12/121220143949.htm>

Preventing Septic Malfunctions

PSU Coop Extension – For most people living in rural areas, collection, treatment, and disposal of sewage must be accomplished on site. Here are some tips to prevent problems with your system. Onlot sewage systems typically consist of a treatment tank and a soil absorption area. The treatment tank removes and partially biodegrades solids while the soil under the absorption area absorbs and renovates the liquid effluent from the treatment tank. Septic tank-soil absorption systems were never intended for a lifetime of use without maintenance. Neglecting to maintain your on-lot sewage system can lead to malfunctions. The most important maintenance issue is having your septic tank pumped every two – three years. With all the things that can go wrong in your system, you may be wondering what you can do to prevent problems from happening. Fortunately, a number of preventive and corrective measures can be undertaken to ensure that your septic system functions properly. Here are several reminders:

- Take every opportunity to conserve water in the home.
- Do not use, or at least severely curtail, the use of a garbage disposal in the home.
- Do not flush non-biodegradable wastes into the septic system.
- Chemical or biological enzyme additives are not recommended.
- Do not add harsh chemical cleaners to your septic system.
- Do not plant deep-rooted plants or trees over or near the absorption area.
- You can also have the system inspected by an experienced professional.

For more information: EPA Fact Sheet: [Preventing Septic System Failure](#) and [Penn State Septic System Information](#)

Codorus Water Trail Update

I hope everyone is doing well. This email is intended to update progress on the development of the water trail. Michael Helfrich and I met with Debra Hatley, York Township Recreation director back in November about creating access at Stump Park. We found a suitable location within the park for creek access. We showed Debra this location and have her support to create the access. I was invited to the rec board meeting on December 6th, and did a presentation on the water trail. They agreed to move forward in creating at Stump Park, although it's very early stages and no timeframe on how long it will take. I will keep you all posted. I located a landowner looking to sell his property for the creation of a park with creek access. The property is 4 acres in East Manchester Twp near Codorus Furnace and Riverview Drive. The owner came down on his price to \$35,000, but this is contingent on the property becoming a park named in memory of his late friend. I believe additional funding would come from the deceased parents for the creation of this park. I have been in contact with East Manchester Township hoping to convince them to own the land. They are very interested, but asked me to look into a rescue plan for the gorge and to confirm if DCNR and PFBC are supportive of the water trail and acquisition of this land. PFBC is supportive of the water trail and creating access on the creek, but will not put it in writing at this time unless they provide funding. Laurel Anders with PFBC said they are very interested in making the Codorus Creek more accessible. I have not yet contacted anyone within DCNR. In terms of safety on the water trail with in the gorge, I hope to convey that a water trail is not intended to make the creek more dangerous, but make it safer with signage, website and detailed guide and map. Laurel confirmed that the PFBC is willing to provide training to area responders on water rescue. I updated David Gentzler of East Manchester Twp and he asked me to draft a letter with this information and he will present it to the supervisors for a meeting early next year. I hope to create access in Glatfelters Station. This will create a 6 mile section with access at Stump Park. Access at the Glatfelters Station Rail Trail parking area would be ideal. I met with Gary Peacock and he said it is possible an access could be built that also includes bank stabilization. The creek is a short walk from the western side of the parking lot. The York Water Company does not want kayakers going over there dam near Indian Rock and Croll School Road. The dam is not particularly dangerous and boaters typically run it. YWC will not allow portage on their side of the creek, so portage will need to be created on the opposite bank on land owned by Kinsley. I have not talked to anyone with Kinsley yet on this matter. Special thanks to Hannah Hardy of the Pennsylvania Environmental Council. She has been a tremendous help in this project. Please let me know if you have any questions or comments. I would like to plan a stakeholders meeting sometime in January or February and then follow that up with a public meeting. Contact: Rob Danner 610-207-0823 or Facebook <http://www.facebook.com/pages/Codorus-Creek-Water-Trail/277537385681858?ref=hl>

2013 Maryland Biological Stream Survey Training and Certification – Feb & May

Maryland Biological Stream Survey (MBSS) stream sampling protocols are currently required by some counties and state agencies. To accommodate these requirements, Maryland DNR will again offer two training sessions and opportunities for certification in five MBSS protocols during 2013. The certifications include benthic macroinvertebrate sampling, benthic macroinvertebrate laboratory processing and subsampling, fish sampling, fish crew leader, and fish taxonomy. To be certified by DNR for benthic macroinvertebrate taxonomy, a Society for Freshwater Science (formerly known as the North American Benthological Society) certification, not offered by DNR, is required (<http://www.nabstcp.com/>). Trainings will be offered on February 25th (spring sampling) for benthic macroinvertebrate sampling and May 28-

31 (summer sampling) for fish sampling, fish crew leader and fish taxonomy certifications. Registration and fee information can be found [HERE](#). NEW THIS YEAR! Detailed Physical and Nutrient Monitoring: DNR will provide training on geomorphology, nutrient, and discharge sampling protocols. These protocols are being used to document changes to streams with restoration projects funded by the Chesapeake and Atlantic Coastal Bays Trust Fund and could also be used with other restoration projects. This training provides an opportunity to begin using comparable protocols to document improvements in nutrient and sediment loads and geomorphic properties of streams in Maryland. This training will be held at the Oregon Ridge Lodge (see above) on February 28th, 2013. There is no charge for this training but space is limited and registration will be held on a first come/first served basis. Detailed physical and nutrient monitoring protocols will be available by mid-February, 2013. Questions regarding this special training session should be referred to Luke Roberson at (410) 260-8618; lroberson@dnr.state.md.us.

Free Source Water Webinar: Working with USDA to Protect Sources of Drinking Water – Jan 9

On Wednesday, January 9, 2013, from 1:00 to 2:30 p.m. (EST), the Association of State Drinking Water Administrators and the Ground Water Protection Council will host a webinar titled “How State Source Water Programs Can Work with their USDA Partners to Protect Drinking Water Sources.” The webinar should be useful for state water programs, from those who already know their U.S. Department of Agriculture Natural Resources Conservation Service state conservationist but may be looking for new ideas, to those aiming to build a successful relationship. The webinar agenda will include a step-by-step tutorial on how to use the Source Water Collaborative’s new online Collaboration [Toolkit](#) and success stories from Maine and Iowa. To register for the webinar, go to: <https://www1.gotomeeting.com/register/801495793>

Webinar on Funding for Community Recreation and Conservation Projects

A Webinar on Funding for Community Recreation and Conservation Projects was recently held by the DCNR, and due to unexpected demand registration was filled shortly after the event was advertised. We have placed a [recorded video](#) of the webinar on our YouTube account. The [PowerPoint](#) used in the presentation is on our website and can be accessed by anyone wishing to obtain the information presented. This webinar was designed for new applicants interested in obtaining grant funding for public recreation and conservation projects through DCNR’s Bureau of Recreation and Conservation grant program. More information can be found in Additional Funding Sources (a guide that highlights a wide variety of other funding sources) as well as a funding fact sheet on Act 13, which can be found on our [Resources and Technical Assistance](#) web page.

Save the Date! FREE Landscape for Life(TM) `Train the Trainer' Webinar Series Starts April 30th 2013.

The Lady Bird Johnson Wildflower Center and the U.S. Botanic Garden are calling for applications for the new Landscape for Life(TM) `Train the Trainer' webinar series offered free of charge in 2013. Landscape for Life (LFL) is an educational program that teaches homeowners how to holistically work with nature in their gardens and is based on the principles of the Sustainable Sites Initiative(TM). Bring Landscape for Life to your community by becoming an official trainer. Ideal for botanic garden and horticulture educators, landscape architecture/design instructors, master gardeners, master naturalists, garden clubs, and those interested in teaching sustainable gardening practices. The series of five, two-hour webinars offers helpful teaching tips and tools that show you how to effectively utilize the instructor's manual to deliver this valuable information to your target audience. The fully illustrated manual is a complete teaching toolbox that comes with four ready to go presentations that make the Landscape for Life classes convenient to offer in your area. The webinar series is a unique opportunity that provides the following benefits:

- Talk with the author of the curriculum
- Engage in an open dialogue with like-minded educators and colleagues
- Become better equipped to explore relevant topics of landscape sustainability with homeowners
- Get access to additional instructor resources pertaining to landscape sustainability
- Gain hands-on experience through topical homework assignments

Please note all participants should already possess sufficient gardening/horticulture background knowledge and experience as the training is not a "how-to" covering specific program content. We expect trainers to teach the Landscape for Life classes within one year of completing the training. Landscape for Life(TM) 'Train the Trainer'(TM) Webinar Series Schedule Offered Tuesdays, 3:00 p.m. - 5:00 p.m. central time. Must be able to participate in all five webinars. A high-speed internet connection is required to participate in the webinar training series. 2013 Dates: April 30, May 7, May 14, May 21, May 28. Application deadline is April 19, 2013. For more information and to apply please visit

<http://landscapeforlife.org/train-the-trainer-webinar-series/>.

Creating Pennsylvania's Largest Greenway

The Susquehanna Greenway Partnership has recently released our [2012 Progress Report](#), a summary of the work of SGP and our partners in creating places where people are connected to the natural and cultural resources of the Susquehanna and can live active, healthy lives. The Susquehanna Greenway Partnership envisions a balanced and sustainable regional economy, where we value and conserve productive farmland and forests, where environmentally friendly businesses thrive and river towns are centers of commerce, culture and human activity. Whether you are a new member or have been on this journey with us from the start, please [make a donation](#) to the Susquehanna Greenway Partnership today, and know that your gift creates healthy and sustainable Susquehanna communities.

NEW PADEP General Permit Forms Online!

Below is the link gives information on all the new forms for the DEP 105 general permits. The forms are quite different, so check here before you mail anything in to Marybeth. <http://www.elibrary.dep.state.pa.us/dsweb/View/Collection-9507> . Note that we now have to send one original and four copies of each permit application.

Exemplary Source Water Protection Award Nominees Sought – Jan 15

The American Water Works Association invites you to submit nominees for the [2013 Exemplary Source Water Protection \(SWP\) Award](#) by January 15, 2013.

PA DEP Governor's Award Program for Environmental Excellence - Jan 31

[PA DEP Governor's Award Program for Environmental Excellence](#) (for the period from August 1, 2011 and July 31, 2012) - Applications due January 31, 2013.

Applications are now being accepted for the 2013 Green Park Award

Do you know of a park or facility that incorporates green and sustainable ideas and methods in its operations? Please consider nominating it for the [Green Park Award](#), which is co-sponsored by DCNR and the Pennsylvania Recreation and Park Society. The purpose of the award is to recognize excellence in the public park community for those that demonstrate the integration of green and sustainable park practices and connecting people to nature. More information on the 2013 award and the nomination form can be found here <http://www.dcnr.state.pa.us/brc/grants/greening/casestudies/greenparksaward/index.htm>

Videos to Watch

[The Choice is Yours: Clean or Green Water](#) - New EPA video illustrates nutrient pollution impacts to recreation



WATERSHED FACILITATION ASSISTANCE

TransitionYork – Jan 13

Greetings all! Hope you're having a very relaxing Winter's Solstice. As you may remember, our group is at a crucial crossroads: mapping the new course for Transition York. We will be discussing this & more...Please mark your calendars for January 13th, 2013, 12:30pm potluck, 1:30pm meeting time, UUCY carriage house parlor, 900 S George St., York, PA. Agenda to follow later...Yours In Community, FRancie D

York TMDL Work Group – Jan 25

The York TMDL Work Group will convene on January 25, 2013, from 1:00 to 3:00 PM, at York Twp., to review and approve sections I through III of York County's TMDL Implementation Strategy DRAFT. For more information, contact Lindsay Gerner, Municipal Outreach Coordinator, York County Planning Commission, 28 East Market St., York PA 17401. Phone: (717)771-9870. E-mail lgerner@ycpc.org

The Green in Your Backyard Woods workshop in southeast PA – Feb 9

Penn State Extension, the Alliance for the Chesapeake Bay and the DCNR Bureau of Forestry are sponsoring the Green in Your Backyard Woods workshop to be held in southeast Pennsylvania this winter. Participants will learn essential information about the region's flora and how to implement simple stewardship practices to enhance or establish the vegetation on their land. Registration is now open. When: Saturday, February 9th, 2013; 8:30 am - 4:00 pm. Where: Farm & Home Center, 1383 Arcadia Road, Lancaster, PA 17601. Cost: \$30.00 per person or \$50.00 for 2 people from same household. For more information and/or to register visit:

<https://www.forestryforthebay.org/files/VegWYBY2.pdf>

13th Annual Land Ethics Symposium – Feb 21

Creative Approaches for Ecological Landscaping" to be held on Thursday, February 21, 2013 at the Sheraton Bucks County Hotel in Langhorne, PA. A PDF of the brochure can be found in the left column of this email, as well as on our [website](#). Printed brochures should reach mailboxes by the end of the month. Information about the 2013 Symposium can be found on the Land Ethics Symposium page of our www.bhwp.org/education/Land-Ethics-Symposium.htm. Online registration is available for 2013! www.bhwp.org/land-ethics-symposium.htm. Registration Fee: \$129 - Early Bird Registration (before Jan 28); \$149 - Regular Registration (Jan 28 through Feb 11); \$99 - Full-time student (include copy of ID). * Registration and payment must be completed by Feb 7.

Current Issues in Storm Water Regulation – Feb 27

From recent litigation to changing permitting standards, failing to stay on top of current issues related to storm water regulation is risky. In this seminar, you will get answers to all your questions, such as: What new case and policy decisions impact my practices? What are the latest trends in the water quality arena? Here is your chance to learn - in just one day - the facts about current legal issues, monitoring and inspection, the proper design and selection of BMPs ... everything you need to know to avoid reactive responses to regulatory changes, adequately plan and ensure compliance. This seminar is designed for engineers, presidents, vice presidents, business owners and managers, project managers, environmental professionals, public works and utilities directors, developers, planners, surveyors, contractors, property owners and managers, architects and attorneys. Benefits for You:

- Uncover the latest laws and regulations that will impact storm water discharges
- Discover the details in implementing Chapter 102, erosion and settlement control requirements
- Get updates on recent and future trends in storm water regulations
- Make sense of the storm water and wetland permitting controversies on brownfields site

Learning Objectives:

- You will be able to discuss legal status of MS4s and PAG-13.
- You will be able to review wetland and storm water regulatory issues at brownfield redevelopment sites.
- You will be able to explain Pennsylvania's storm water regulations from a land development perspective.
- You will be able to describe implementation of the new Chapter 102 requirements.

Moderators: Douglas R. Blazey, Esq., Elliott Greenleaf & Siedzikowski, P.C.. Faculty: John "Jack" R. Embick, Esq., John R. Embick, PLLC; Mitchell E. Burack, Burack Environmental Law Office; Jennifer Orr, Pennsylvania Department of Environmental Protection; Jonathan E. Rinde, Esq., Manko, Gold, Katcher & Fox, LLP; Barry L. Wert, P.E., P.L.S., Metz Engineers, Civil Engineers & Land Surveyors. Seminar fee - \$349.00. Seminar + CD - \$448.00 Best Value! Can't Attend the Seminar? CD/Manual Package Only - \$369.00. To Register: Seminar ID: 391053. Your priority code is: 2252-0591-61. Please mention this code when registering. Register online at: [Lorman](#). By phone: Call our Customer Service Department at (866) 352-9539. By e-mail: customerservice@lorman.com. By fax or mail: Print & fill out the [registration form](#) and fax to (715) 833-3953 or mail to Lorman Education Services, Dept 5382, PO Box 2933, Milwaukee, WI 53201-2933. Please provide the attendee's name, company, address, phone number and email address.

2013 Pennsylvania Lake Management Annual Conference "PALMS" – Feb 20-21

State College – Keynote speaker: Bob Kirschner has been with the Chicago Botanic Garden since 1999, and today he serves as the Garden's Curator of Aquatic Plant & Urban Lake Studies as well as its Director of Restoration Ecology. Prior to joining the Garden staff, Bob served for

21 years as the Principal Environmental Planner at the Northeastern Illinois Planning Commission. While there, he worked on lake and stream protection projects throughout northeastern Illinois, as well as public policy relating to water resource protection. This year the conference will be at the Ramada Conference Center in State College, PA. Conference Location [Ramada Conference Center State College](#), 1450 S Atherton Street, State College, PA 16801. Lodging Information: [Ramada State College Hotel](#) – 814.238.3001. Register online at <http://www.palakes.org/news-and-events/conference-form>. Fee \$75 one day, \$125 2 days.

Save the Date for the upcoming Recreation & Parks Advocate Summit! – Mar 23

As part of the 2013 Pennsylvania Recreation and Park Society 66th Annual State Conference, DCNR is offering a one-day summit on Saturday, March 23, 2013 from 9:00 a.m. - 4:00 p.m. for individuals who serve on Pennsylvania's local recreation and park boards, non-profit organization boards, recreation and parks directors, local officials, friends groups and any advocates of recreation, parks, trails, and conservation. The Park and Recreation Advocate Summit will provide attendees educational sessions on topics including Funding for Community Recreation and Conservation Projects, Board & Commission Training, Developing Community Support and Financing Municipal Parks & Recreation as well as excellent networking opportunities. Keynote speaker is Leon E. Younger, general partner with Leon Younger & Pros. He will speak about the state of parks and recreation, how people have overcome, advocacy and business culture; and the role of the board and the role of the director. For more information on the Summit call 717.783.4736 or email linmanning@pa.gov.

2013 Pennsylvania Rural Water Association Annual Conference – Apr 9-12

State College – Location [Penn Stater Conference Center](#). Where your industry comes to life: 1,300 Plus Attendees; 16 Water & WW Contact Hours Possible; 126 Vendor Exhibits; 58 Classes in 4 Days; 8 Meals & 3 Evenings of Entertainment; 1 VERY LOW PRICE! ANNUAL CONFERENCE FULL FOUR DAY REGISTRATION Member \$245 / Non-Member \$370. The full conference offers 4 Days packed full with 58 training classes, up to 16 DEP Water AND Wastewater Contact Hours, 126 Industry Exhibits, 3 Evenings of Entertainment, and 8 Great Meals! ALL classes, meals, and events are FULLY included with your Conference Registration, so don't miss a thing! (Single day attendees: your registration includes all classes, meals, and events only for the day you are registered for). 100% Satisfaction Guaranteed or Your Money Back! Contact the PRWA Office with any questions. We look forward to seeing you in March! Register here <http://www.prwa.com/store/training/annual-conference-full-four-day-registration>

2013 Pennsylvania Section American Water Works Annual Conference – Apr 23-25

On-Line 2013 PA-AWWA Annual Conference [Registration is here!](#) Help us Celebrate 65 Years of Service to the Pennsylvania Drinking Water Community. PA-AWWA welcomes [Design-Build Institute of America \(DBIA\)](#) to our 65th Annual Conference !!! April 23-25, 2013 - Hershey, PA

2013 Pennsylvania Groundwater Symposium – May 8

State College – In celebration of National Drinking Water Week, Penn State Extension's Master Well Owner Network and the Pennsylvania Department of Environmental Protection along with numerous other sponsors invite you to attend the 2013 Pennsylvania Groundwater Symposium at Penn State University in University Park, PA. The Symposium theme: Emerging Issues in a Changing Landscape will provide a forum for researchers, students, professionals and educators working in the groundwater field to exchange information and promote protection of groundwater resources throughout the state. The daylong symposium will begin at 9:00 AM on Wednesday, May 8, 2013 with several keynote speakers focusing on emerging groundwater issues in the Commonwealth. The remainder of the day will feature a poster session, buffet lunch and numerous presentations covering a wide range of groundwater resources topics relevant to Pennsylvania including: groundwater processes, wellhead protection, water well studies, emerging contaminants, data availability, groundwater monitoring, aquifer studies, groundwater/surface water interactions, issues related to energy extraction, education and outreach, and more.

http://www.cvent.com/events/pennsylvania-groundwater-symposium-abstract-submission/custom-17-b7188f2847a84be2a85b0c03ece0731b.aspx?utm_source=December+2012+WREN+E-News&utm_campaign=Dec+2012+E-News&utm_medium=email



WATERSHED FINANCIAL ASSISTANCE

Chesapeake Bay Trust Engagement and Restoration Mini Grant - Open!

The Chesapeake Bay Trust Mini Grant Program awards up to \$5,000 to support activities at schools and non-profit organizations that help promote awareness of and participation in the restoration and protection of the Chesapeake Bay and its tributary rivers and streams. The Mini Grant Program is supported by a partnership with the National Oceanic and Atmospheric Association Bay Watershed Education and Training Program. Program Status:

- The Mini Grant program for K-12 Environmental Education requests is currently OPEN. To view the RFP, [click here](#). Due Jan. 11, 2013!
- The Mini Grant program for Community Engagement and Restoration requests is currently OPEN. To view the RFP, [click here](#). Open enrollment.

WREN Watershed Education Pollution Prevention and Source Water Protection Education Grants - Jan 2013

Opportunity Grants are the only available WREN Grants open currently. Please check back for opening of 2013 WREN grant round of Watershed Education (Nonpoint Source Pollution Prevention) and Source Water Protection Grants in January 2013. The League of Women Voters of Pennsylvania Citizen Education Fund (LWVPA-CEF) funds a limited number of community based educational projects that protect and improve the community's water resources. Download the Grant application forms and instructions below. Grants are made possible through funding from the Pennsylvania Department of Environmental Protection. Grants are available only to individuals or groups residing in Pennsylvania. Project activities for the 2013 round are to take place 7/1/2013 - 6/30/14.

- [Watershed Education Grants](#) –The Watershed Education Grant Program seeks to raise public awareness, encourage behavior change and improve public policies to protect water resources. WREN invites grant proposals for Watershed Protection Education from local coalitions that will raise awareness and educate Pennsylvania citizens, local officials, and other community stakeholders about their roles as environmental stewards to protect, improve, or remediate the watershed from the impacts of polluted runoff.

- Opportunity Grants - WREN's Opportunity Grants for nonpoint source pollution prevention education are now available! Maximum \$300 per project with one award available for \$350. Opportunity Grant Application Form may be downloaded below (WORD Doc). WREN Opportunity Grants are available for grants to community groups to carry out local water education projects. Projects must be related to reduction of Nonpoint Source Pollution to Pennsylvania waterways, and must be completed by September 30, 2012. Maximum funding per project is \$300, with one award of \$350 available. This is a reimbursement grant.

Consult WREN for eligibility questions - email: info@palwv.org.

\$1.5 Million in Grants is Available for Water Restoration – Feb 7

The National Fish and Wildlife Foundation is requesting proposals for the [Five Star and Urban Waters Restoration Grant Program](#). These grants will develop community capacity to sustain local natural resources through financial assistance to diverse local partnerships for wetland, forest, riparian, and costal habitat restoration with a particular focus on urban/community waters and watersheds. Grants of between \$20,000 and \$50,000 each will be available. [Applications](#) must be postmarked by February 7, 2013, and award notifications are scheduled for July 31, 2013.

Lowe's Toolbox for Education - Feb 15

Lowe's will donate \$5 million to public schools and public school parent teacher groups - at more than 1,000 different public schools per school year. Click here <http://toolboxforeducation.com/faq.html> to see if you are eligible! Raise up to \$5,000 for your school in minutes. The Spring 2013 cycle is now open. The deadline for submitting applications for this grant cycle is February 15, 2013 5pm EST. However, if 1500 applications are received before the application deadline, then the application process will close. To get started, click on the "How to Apply" link at the top of this page. Fall 2012 cycle applicants will be notified via email as to the status of their grant application by mid-January 2013.

PA American 2013 Environmental Grant Program - Feb 2013

Pennsylvania American Water's Environmental Grant Program awards grants of up to \$10,000 to support diverse types of environmental sustainability activities such as watershed cleanups, reforestation efforts, biodiversity projects, streamside buffer restoration projects and hazardous waste collection efforts. At Pennsylvania American Water, we are committed to protecting the environment in the communities we serve and are proud to support the efforts of local organizations that share our vision. Established in 2005, our Environmental Grant Program offers funds for innovative, community-based environmental projects that improve, restore or protect the watersheds, surface water and/or groundwater supplies in our local communities. We are pleased to offer this assistance to our community partners, while leveraging local resources and capabilities to make a positive impact on the environment. To qualify for Environmental Grant funding, a proposed project must:

- Improve, protect or restore the watershed or source water
- Be located within the Pennsylvania American Water service area
- Be a new or innovative community initiative, or serve as significant expansion to an existing program.

For More Information [2012 Environmental Grant Program Brochure](#) and [2012 Grant Program Application Forms](#). Contact Terry Maenza at 610-670-7789, ext. 1009 or terry.maenza@amwater.com.

2013 DCNR Community Conservation Partnership Grants - Apr 10

The Department of Conservation and Natural Resources will begin accepting applications for the 2013 round of [Community Conservation Partnership Grants](#) on January 9. The deadline for applications is April 10. DCNR will host a series of 7 regional grant workshops designed to assist potential grant applicants with preparing their applications and providing information about the program. The workshop dates and locations are:

- Feb. 6: Conshohocken – Montgomery County Public Safety Training Campus: Fire Academy
- Feb. 7: Doylestown – Heritage Conservancy: Aldie Mansion
- Feb. 13: Enola – Pa. State Association of Township Supervisors: Administration Building
- Feb. 19: Boalsburg – Pa. Military Museum
- Feb. 20: Nanticoke – Luzerne County Community College: Educational Conference Center
- Feb. 26: Franklin Park – Franklin Park Borough: Blueberry Hill Park Activity Center
- Feb. 27: Clarion – Clarion University: Gemmell Student Complex

For grant applications and instructions, visit the DCNR [Community Conservation Partnership Grants](#) webpage.



WATERSHED TECHNICAL ASSISTANCE

Advances help farmers practice conservation

Delta Farm Press – No-till farming, strip-till farming, crop rotation and cover crops have grown in popularity as Mississippi farmers face the challenge of conserving nutrient-rich topsoil while improving their bottom lines. Conservation methods are more difficult to implement in Mississippi than in some other parts of the country, such as the Midwest, because factors including weather, topography and soil types make soil especially prone to erosion. Read more... <http://deltafarmpress.com/management/advances-help-farmers-practice-conservation>

STREET SWEEPING Pilot Studies – Bringing program improvements to San Diego

The city of San Diego, CA, Transportation and Storm Water Department has been aggressively testing assumptions regarding street sweeping and its role as a best management practice (BMP) for stormwater pollution prevention. The city has gathered significant data regarding how to best optimize the use of street sweeping equipment and routes. This article summarizes the city's findings and makes a strong case for street sweeping improvements nationwide. Read more... <http://digital.stormh2o.com/publication/?i=138017&p=&pn=>

Turnaround Strategies: Part 2. More case studies on how stormwater programs are dealing with aging infrastructure

The intersection of Routes 9 and 440 with the Garden State Parkway is one of New Jersey's busiest and most vital cloverleaf complexes. Sinkholes began to appear there after Hurricane Irene in 2011. "Soil was collapsing into large-diameter corrugated metal pipe [CMP] storm

sewers and creating big sinkholes,” notes Alkesh Desai, stormwater emergency manager for the New Jersey Department of Transportation (NJDOT). “When we inspected, we found that more than 500 feet of 60-year-old pipe was failing, with joints that were falling apart and some inverts that were completely rotted out. Something had to be done immediately.” Open-cut replacement was ruled out because of the extreme project cost and also the costs of disrupting New Jersey commuter traffic for weeks. The pipe diameters were large—300 feet of 72-inch bituminous-lined CMP, and about 240 feet of 60-inch bituminous-lined CMP. At large diameters, cured-in-place pipe (CIPP) is relatively expensive, and large-diameter CIPP occasionally slumps or pulls away from substrate during installation. One stretch of sewer included a 30-degree vertical bend, which could not be negotiated by a prefabricated lining. In addition, because the CMP was in such poor condition, the rehabilitation had to be structural and had to be applied to the uneven substrate. Finally, weather was a challenge. The repair had to be completed immediately, during heavy storms that followed Irene, so repairs would have to be made in wet conditions. Desai had some familiarity with one viable option: the Centri-Pipesystem, a centrifugally cast concrete pipe (CCCP) solution produced by AP/M Permaform. In the Centri-Pipe process, a spincaster is withdrawn through large-diameter pipe at precisely calculated speeds. The spincaster sprays on thin layers of cementitious grout; successive layers bond to each other until the desired pipe thickness is reached. AP/M Permaform designers calculate thickness based on depth of cover, soil types, pipe condition, and groundwater pressures, as well as the pipe’s size, shape, and other factors. The resulting smooth, joint-free concrete pipe lining reinforces and seals the damaged host pipe and is designed for full structural support. The material’s high strength-to-thickness ratio maximizes the pipe interior diameter and flow capacity. Read more... <http://digital.stormh20.com/publication/?i=138017&p=&pn=>

Water Quality? I Thought It Was a Cheese Grater – A large-scale BMP for trash and other pollutants in Albuquerque

The Albuquerque Metropolitan Arroyo Control Authority (AMAFCA) has been constructing stormwater-quality facilities and best management practices (BMPs) for more than 13 years. During that time, many different approaches have been tested for effectiveness. The BMP selection process has evolved over time through lessons learned and the incorporation of new methodologies and technologies. AMAFCA’s approach to water quality has evolved to adapt to local hydrologic, hydraulic, and geographic constraints. The influence of these constraints has produced a new generation of non-typical, high-capacity structural BMPs that are unique to the Albuquerque area. The I-25 Baffle Chute Stormwater Quality Facility is a retrofit of an existing 28-foot-high concrete baffle chute drop structure that was built by the US Army Corps of Engineers in the early 1970s during the construction of the South Diversion Channel (SDC). The SDC is one of two large diversion channels built by the Corps that drain the eastern half of the city of Albuquerque. The location of the drop structure is at the point in the SDC where 100% of urban runoff has been captured in the channel, so its location plus the vertical drop provided an opportune site for a large-volume water-quality BMP. The BMP retrofit was designed in 2010, and construction was completed in December 2011. The hydraulic design of the BMP was conducted through collaboration between AMAFCA and the University of New Mexico (UNM) Civil Engineering Department. The design was refined and finalized through a series of iterative design steps using physical hydraulic modeling at the UNM Hydraulics Laboratory. Numerical modeling was also performed to analyze and verify hydraulic behavior and capacity of the final design. The water treatment capacity of the structure is 1,200 cubic feet per second (cfs). Read more... <http://digital.stormh20.com/publication/?i=138017&p=&pn=>

Integrating Stormwater Runoff Quantity and Quality Requirements

Beaufort County, SC, is located between Charleston, SC, and Savannah, GA. Because of the prime coastal location, the county has long been an attractive location for resorts and other types of development. The county’s stormwater program has been challenged by its citizens and leaders to be a progressive coastal program that has recently incorporated volume control into its stormwater management criteria. This progressive attitude has kept 85% of our most-sensitive-water-use (shellfish harvesting) waters open since water-quality controls were first adopted in 1998. This was maintained while the county increased in population by over 30%. Read more... <http://digital.stormh20.com/publication/?i=138017&p=&pn=>

Stormwater Tool Geared to Business Partners

Large or small, businesses in your community can help manage stormwater....Because clean water is everyone's business. It takes a village to manage stormwater, and encouraging the businesses in your community to join the effort just got easier. Stormwater management is complicated, but the newly released Clean Water Partners guide makes it easy for local business owners/managers to understand the issues and learn how they can help slow the flow and reduce pollution sources on their property. You can use the [Clean Water Partners Guide](#) along with the [Green Guide for Property Management](#) at workshops, community meetings, and in MS4 public outreach and participation programs. Clean Water Partner window decals are available for participating businesses. The guides are free from the Partnership for the Delaware Estuary (PDE) for those within the Estuary and can be downloaded online (links provided). Hardcopies and window decals are available while supplies last - order by email: dross@DelawareEstuary.org or call PDE at 800-445-4935 x106. Those outside of the Estuary who would like copies should download them here: http://www.delawareestuary.org/pdf/CleanWaterPartners/cwp_second_edition.pdf?utm_source=December+2012+WREN+E-News&utm_campaign=Dec+2012+E-News&utm_medium=email

EPA Releases National Water Program 2012 Strategy: Response to Climate Change

EPA has released the "National Water Program 2012 Strategy: Response to Climate Change," which describes how EPA's water-related programs plan to address the impacts of climate change and provides long-term visions, goals and strategic actions for the management of sustainable water resources for future generations. The strategy, which builds upon EPA's first climate change and water strategy released in 2008, focuses on five key areas: infrastructure, watersheds and wetlands, coastal and ocean waters, water quality, and working with Tribes. It emphasizes working collaboratively with partners and stakeholders, developing information and tools, incorporating adaptation into core programs, and managing risks of impacts including from extreme weather events. The 2012 strategy also includes goals and strategic actions for EPA in 10 geographic climate regions. For more information, please visit <http://www.epa.gov/water/climatechange>.

