

Directory of Conservation Products & Services



The **2007 Conservation Products and Services Directory** is now available. The Directory contains a listing of over 100 contractors, consultants, developers engineering firms, government agencies and suppliers. These are local professionals who can assist you in protecting and restoring the region's natural resources. The Directory is collaboration between the SE PA Conservation Districts and the SE PA Resource Conservation & Development Area. To receive your copy, contact the conservation district in your county.

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Award Nominations being accepted

The Bucks County Conservation District (BCCD) is now accepting nominations for its 2007 awards competition.

This annual program recognizes residents of Bucks County for outstanding conservation efforts in six categories. Winners will be awarded plaques and receive letters of commendation from the county commissioners.

The award categories are:

- Conservation Educator of the Year
- Conservation Organization of the Year
- Conservation Farmer of the Year
- Elected Official
- Forest Conservation Award
- Farmland Preservation named in honor of George M. Bush

Nomination forms are available on the BCCD website at www.bucksccd.org or by contacting the district office at 215 345 7577 ext 101. Submit nominations to BCCD, 1456 Ferry Road, Suite 704, Doylestown, PA 18901, by February 28, 2007

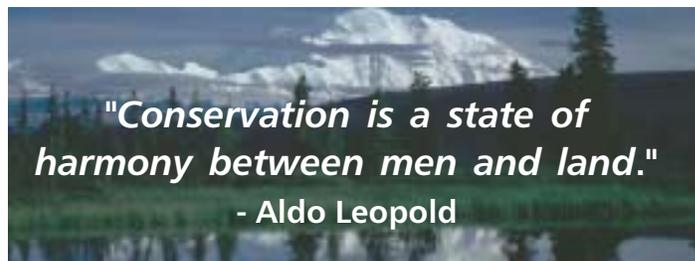
New application policy for NPDES Permits

As of January 1, 2007, the Conservation Districts will begin returning NPDES permit applications that are found to be administratively incomplete. Upon re-submittal of the application package, a new \$250 administrative processing fee will be required. To make sure that the NPDES permitting process goes smoothly for you, here are some common deficiencies to keep in mind before you submit your application:

- **PNDI**- if hits come up during a search, a clearance letter from the appropriate agency must be included in the application package or else it will be considered administratively incomplete. Get this done early!!
- **PPC question**- Section D of the Notice of Intent- ALWAYS check yes!
- **Percolation Tests**- if you are proposing infiltration on your site for post-construction stormwater management, perc test results should be submitted
- **Municipal Notifications**- submit these letters to the municipality and county government early! The municipality must receive the notice at least 30 calendar days before DEP or the District can take final action on the permit application.
- **Post-Construction Stormwater Management Plan**- operation and maintenance procedures must be listed on the plan, including who is responsible for the BMPs.

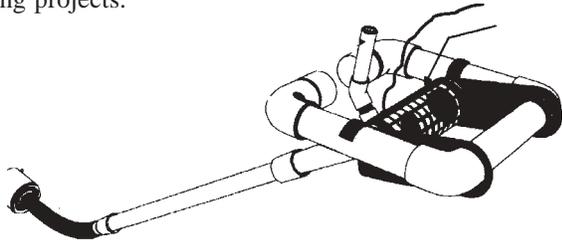
A copy of correspondence drafted by DEP explaining the policy in more detail is posted on the Delaware County Conservation District's website, www.delcocd.org. If you have any questions, contact your local Conservation District.

*Bridget Thompson
Delaware County CD*



Correct Skimmer designs

The information contained in the **PaDEP Erosion and Sediment Pollution Control Program Manual March 2000** on page 43 and 44 about design for sizing skimmers is incorrect. SEPA Conservation Districts noted this approximately 3 years ago. Many engineers/design consultants have continued to use the Manual for the sizing of skimmer orifices. This has resulted in a delay of approving projects.



The conservation districts will not accept designs for skimmers based on the criteria from the Manual. The design community is encouraged to use Faircloth's web site at <http://fairclothskimmer.com/index.html> The website contains:

- CAD drawings to place on the detail sheets
- Instructions on designing for the project drainage area to your basin
- Cost and ordering information

Please visit this web site. It will provide you the information necessary to design a skimmer correctly.

Dan Greig, Chester Co. CD

Let's Talk — Again

Several issues ago, I wrote a piece entitled *Let's Talk*. I recently had the opportunity to *talk* at a meeting in which Rich Kadwill and I participated with representatives of the Bucks/Montgomery Homebuilders Association and several representatives of various utility providers in the area. The best thing about the meeting was that we did talk. The meeting was very informal, and our purpose was to discuss what might be done to improve the implementation and maintenance aspects of erosion control measures by utility contractors and their sub-contractors within and outside of the limits of disturbance of larger construction sites.

The more we talked; the more evident it became that we had many of the same concerns, and most of the suggestions for achieving our purpose revolved around better education and better communications. As we (the SEPA Conservation Districts) go forward, you can expect to hear more about our efforts to address concerns with erosion control associated with utility work. Seminars, newsletter articles, one-on-one contact, tightened up sequencing, more in-depth pre-construction meetings and potentially some legal remedies will be occurring to get a better handle on the poor field conditions that our field staffs have been reporting for some time.

I firmly believe that it's better to talk than to legislate!

John Thomas, Bucks County CD

Explore these Websites

Design consultants are always asking district staff for information on various subjects for handouts and other useful tools that will aid in plan preparation. There is a lot of information available on the internet. For the next year, this newsletter will be provide at least four links to useful information available on the Web. Please take the time to explore these sites. Education is an important part of Conservation District programs. We will provide the tools to help you find the information you need.

Many thanks to Dr. Travers of Villanova University Stormwater Partnership for the sites listed below.

SoilMap –

<http://soilmap.psu.edu/>

This is a great tool for viewing soils maps and determining general infiltration capabilities, depth to ground water, etc. **SoilMap** provides free and convenient online access to detailed soils information for all of Pennsylvania, as well as a wide variety of other environmental data layers. A suite of simple tools allows users to interact with the online mapping and retrieve a wealth of information about Pennsylvania's natural resources.

USGS – Stream Stats –

<http://water.usgs.gov/osw/streamstats/pennsylvania.html>

StreamStats is an integrated GIS application developed through a cooperative effort of the USGS and ESRI, Inc. StreamStats makes the process of computing streamflow statistics for ungaged sites much faster, more accurate, and more consistent than previously used manual methods. It also makes streamflow statistics for gaged sites available without the need to locate, obtain, and read the publications in which they were originally provided. Examples of streamflow statistics that can be provided by StreamStats include the 100-year flood, the mean annual flow, and the 7-day, 10-year low flow. Examples of basin characteristics include the drainage area, stream slope, mean annual precipitation and percentage of forested area. Basin characteristics are the physical factors that control delivery of water to a point on a stream./

EPANET 2.0 – Simple windows-based Pipe Network Model (Hardy Cross) <http://www.epa.gov/nrmrl/wswrd/epanet.html>

HEC-HMS has just released a new version. A Beta version of HEC-RAS version 4 with sediment transport is available.

<http://www.hec.usace.army.mil/>

If you have any links that maybe of interest to our readers, please submit them to dgreig@chesco.org We prefer a direct link to the site where the information is available.

Dan Greig, Chester Co. CD

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Some Ways to ensure your slope pipe maintenance doesn't go downhill

Slope pipes and their respective maintenance have become an issue as of late in Delaware County. A slope pipe is used to convey runoff down steep slopes that are either constructed or existing. Two recent inspections have uncovered problems that could lead to serious erosion if left unaided. Let me first go over the site inspections, and then I will present some solutions.

The first instance involves a slope pipe on a very steep slope, which extends for at least 200 feet. The stakes are not firmly secured causing the slope pipe to move and separate. If this is not caught early and corrected, severe erosion would likely occur.



An uprooted tree was the cause of this slope pipe being disconnected.

The second instance was the result of Mother Nature uprooting a tree, which subsequently detached a section of the pipe. While it is impossible to anticipate such an event, there are several ways to insure that your slope pipes are functioning correctly.

- The pipe should be a heavy-duty flexible pipe or corrugated metal and shall be securely staked to the slope. Maximum distance between stakes should be 10 feet.
- All connections should be watertight.
- Damaged pipe and needed repairs should be made immediately after inspection.
- As always, they should be inspected weekly and after every runoff event.

Following these steps should ensure that serious problems do not occur. If you are not sure about some aspect, you can always refer to the erosion and sediment control plan details for assistance and for further guidance or contact the conservation district. It's our job as much as yours to help ensure that the erosion and sediment controls are working properly.

Kevin Boyle, Delaware County CD

Stormwater BMP Manual

Storm water runoff and flooding are natural events that, over the millennia, have helped shape the world around us. Our activities on the landscape routinely alter these natural drainage patterns by intensifying and redirecting runoff, potentially leading to stream pollution, property damage and in extreme cases, loss of life.

After many months of work, drafts and re-drafts, the PENNSYLVANIA STORM WATER BEST MANAGEMENT PRACTICES MANUAL is finally here.

The purpose of the manual is to ensure effective storm water management to minimize the adverse impacts of storm water on ground water and surface water resources.

To that end, a series of training seminars have been scheduled across the Commonwealth to make those involved in storm water management aware of the *Manual* and the substantial depth of information available in the document.

Sessions planned for Southeastern PA are as follows:

February 22 & 23, 2007- starting at 8:00 a.m. each day at the Valley Forge Convention Center, King of Prussia PA (check their web site for directions). Registration information can be obtained by accessing the various conservation district web sites.

In addition, a second session is planned for:

March 6 & 7, 2007- also starting at 8:00 a.m. each day at Villanova University. (800 Lancaster Avenue, Villanova, PA 19085; Phone 610-519-6000)

Registration information can be found by accessing the various conservation district web sites.

Hope to see you there!

John Thomas, Bucks County CD



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TreeVitalize program a success

The Bucks County Conservation District's Watershed program had a busy and successful autumn. Three TreeVitalize sites were completed during October and November. A total of 1,440 trees were planted along riparian areas in three different parks. At each site, assistance was provided by former Delaware County Watershed Specialist, Bill Gothier, who is now employed by the environmental firm, Taylor Geo Services, Inc. and many eager volunteers.

The first site was in Peace Valley Park, New Britain. The project was supported by the North Branch Watershed Association, and benefited from a surprise visit by Boy scout Troop #24. Water was provided by the North Penn/North Wales Water Authorities.

The second site to benefit from the TreeVitalize program was the Covered Bridge Park in New Britain Borough. This site was supported by the New Britain Borough Civic Association. Volunteer turnout at this site was very exciting, with participants from the Girl Scouts, two project teams of students from Bucks County Community College, the New Britain Borough Civic Association, and many others.

And lastly, the Bucks County Conservation District completed a site at Bowman's Hill Wildflower Preserve. This site work was supported by staff and volunteers of the Preserve. The two-acre BHWP site was planted with over 700 trees. It was the longest day of planting, and all of the volunteers did a great job.

The TreeVitalize program is funded through the spring and fall of 2008. If you are interested in planting a site, please contact your county's conservation district for more details.

*Gretchen Schatschneider, Watershed Specialist
Bucks County CD*



Peace Valley Park Planting.



Over 700 trees were planted at Bowman's Hill Preserve in Solebury Township.



We had lots of help planting trees at Covered Bridge Park in New Britain Borough

Photos by Tabitha Stone

Bucks Website updated

The Bucks County Conservation District has a new website! Recently, BCCD staff contracted with web hosting and design firm, IQnection Internet Services to develop a new website. The web address is still the same, www.Bucksccd.org, but the look is completely different!

BCCD staff is in the process of developing content for the new site, and are asking for your help. This site contains a Frequently Asked Question page, and we need your questions! Staff members will find the correct answers and list both on the FAQ page of the site.

The website also contains downloadable applications for E&S Control Plan review, NPDES Permits, College Scholarships, and Conservation Awards. There is a resources and links page with Federal, State, and Local organizations listed. We invite the public to email with their own ideas for helpful resource links.

Please, visit our new site at www.Bucksccd.org. We hope that you find it interesting and helpful.

*Gretchen Schatschneider, Watershed Specialist
Bucks County CD*



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Seeing Is Believing: A Showcase of Stormwater Best Management Practices in Montgomery County

The Montgomery County Conservation District recently conducted *Seeing Is Believing: A Showcase of Stormwater Best Management Practices in Montgomery County*. This project highlights Best Management Practices (BMPs) that effectively manage stormwater and protect our local watersheds. In addition to educating the community, the showcase also provides an opportunity for property owners to receive public recognition for implementing innovative stormwater management.

The showcase includes a self-guided tour book, a guided bus tour, and a virtual tour. The Conservation District provided this project as part of the Montgomery County Coastal Non-point Pollution Program. The Showcase was generated to help direct community members to local examples of BMPs from the PA Stormwater BMP Manual. Funding was provided by the Pennsylvania Association of Conservation Districts, Inc. through its education grant with PA Department of Environmental Protection (DEP) and the Environmental Protection Agency Section 319 Program; and National Oceanic and Atmospheric Administration through the Coastal Nonpoint Pollution Program administered by the PA DEP.

The district hosted a guided bus tour of Stormwater BMPs on October 25, 2006. This tour began at Temple University, Ambler College, where the 42 participants toured a wetland garden and the PECO Green Roof on the Ambler Field House. Both of these BMPs were originally designed for exhibits for the Philadelphia Flower Show by the Landscape Architecture Department. The second stop included a demonstration of infiltration on a brand new parking lot paved with porous asphalt at Johnson & Johnson Pharmaceuticals Research and Development in Spring House, PA. The group toured several BMP research projects at the Pennypack Ecological Restoration Trust including infiltration trenches, a porous parking lot with an underground infiltration gallery, and a riparian area with restored wetlands and stabilized streambanks. The fourth and final stop was at the Wissahickon Valley Watershed Association's stormwater wetland and BMP demonstration park. The demonstration area contains BMPs that homeowners can easily implement on their properties, including rain barrels, dry wells to infiltrate roof runoff, and concrete and plastic pavers for parking areas.



The Peco Green Roof on the Ambler Field house was one of the first stops on the October tour.



Research is being conducted on the maintenance requirements of infiltration trenches at the Pennypack Ecological Restoration Trust.



The Wissahickon Valley Watershed Association built a stormwater wetland at a busy intersection in Fort Washington, PA.

Four speakers presented on the bus during travel on related topics including: stormwater ordinances, the PA DEP BMP manual, stormwater retro-fit projects, operations & maintenance issues, and grant opportunities to fund stormwater projects.

The participants' surveys indicated that following the tour they were most likely to promote naturalized basins and porous pavement because they felt these BMPs were more cost-effective than green roofs and maintenance-intensive BMPs. The surveys also asked to rank the following BMPs. Below is the aggregate ranking (number one had the highest score) based on 25 responses:

BMP Preferences

1. Vegetated filter swales
2. Naturalized basins
3. Vegetated infiltration trenches
4. Wet-ponds
5. Rain gardens
6. Wetlands
7. Porous pavement
8. Green roofs

In addition to the guided bus tour, the grant funded a printed Self-Guided Tour booklet. The book highlights BMPs at twelve demonstration sites with photographs and descriptions, allowing developers, engineers and community members interested in stormwater to visit the BMPs in person. Please contact the Montgomery County Conservation District if you are interested in obtaining a copy of the Self Guided Tour.

Conservation District's *Virtual Tour of Stormwater BMPs* webpage is available to any interested viewers at www.montgomeryconservation.org/bmptour.htm. This website is an on-line version of the Self-Guided tour and contains detailed information on each site and

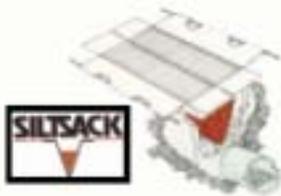
links to multiple other web-based resources on stormwater-related issues.

*Maggie Allio
Montgomery County CD*



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For Information Contact:
Fred Waite, Territory Manager-Malvern, PA
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fwaite@acfenvironmental.com

Penalties collected for the year 2006

<u>Site Name</u>	<u>Developer</u>	<u>Amount</u>
Bucks County		
<i>Enforcement actions through August 22 have been published in previous issues of Conservation & You totaling</i>		260,750
D'Angelo site	D'Angelo Cons.	2,250
Kendall Court	Americorp Homes	1,850
Conover site	G.Conover	600
Chester County		
Basin C Construction	G Antonini Realty	5,000
Dupont Phase 3a	Orleans	5,000
Basciani Timber Harvest	Basciani, Hoffman	6,000
Antonini Realty	G. Antonini	5,000
The Commons at Oaklands	Christopher Knauer	4,000
Burnt Chimney Farm	James B. Kravitz	12,500
Skelp Level Associates	Skelp Level Associates	3,000
Fieldbrook Associates Co.	Fieldbrook Devel. LLC, Benson	14,500
Hickman	David Hickman	10,000
Hagerty Blvd.	Mr. Freas	15,200
Boot Road Sweeney	West Whiteland TWP, HT	1,500
Henderson North Athletic field	West Chester SD	12,000
DCW Property	DCW Inc.	3,000
Delaware County		
Maple Zone Batting Cages	Stephen Conrad	6,000
AEI	Advanced Engineering	3,500
Garnet Valley Elem. School	GVSD & SB Conrad	9,500
Ridley High School Stadium	Ridley School District	1,000
Villanova Center Recllc	Enrico Partners & Radnor	2,750
Montgomery County		
Bus Land, L.P.	Warren Levy, Jr.	6,000
Hartman Rd	Cutler	4,000
Anderson Farm Park	U Providence	4,000
Barren Hill Estates	Andorra Group	3,500
Lederach Golf Course		
Landtek Golf, Inc.	Lower Salford township	26,250
Perkiomen Creek Interceptor	Lower Perk Valley Regional Auth.	2,500
Neiffer Woods	Sukonik Oak Creek L.P.	3,250
Greger Pileggi	Philomeno & Salamone	5,000
Montella's Ctrossing III	Salvatore Moscariello	2,000

Districts strive for voluntary compliance

All Conservation Districts in Southeast Pennsylvania strive for voluntary compliance to Pennsylvania's Erosion and Sediment Control and Clean Streams regulations. Provided the violations on a particular site are not severe or willful, the individual is given the opportunity to correct violations voluntarily. Voluntary compliance is effective in a high percentage of violations discovered during field inspections conducted by Conservation Districts. This strategy has been used by the districts for more than 20 years.

Unfortunately, voluntary compliance is not always effective. For those projects that fail to comply voluntarily, penalties are assessed utilizing a DEP civil penalty matrix. Fees vary depending upon the severity of violations, which are classified in categories of minor, moderate, or severe.

Conservation Districts are hopeful that the regulated community will examine a list such as this and place increased emphasis on effective implementation of their erosion and sediment control program. It is also important to note that not all the individuals or companies listed are "bad apples." Several on the list have other projects in the region that have never been out of compliance. The list is not complete as the region has many cases that have not been concluded. Cases that are not settled are not open for public review.

If you have any comments or questions on Chapter 102 enforcement, please contact your local Conservation District.



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Two size ads are offered: **Business card size** (2" x 3 1/2") \$75/issue

Quarter Page (3 1/2" x 4 1/2" – vertical) \$125/issue

A 10% discount is offered for inserting an ad in two or more issues. Ad deadline for the Spring issue is March 15, 2007. Send your check payable to the Delaware County Conservation District and camera-ready copy to Ed Magargee, Delaware County Conservation District, Rose Tree Park - Hunt Club, 1521 N. Providence Road, Media, PA 19063; Phone (610) 892-9484.

CONSERVATION & YOU is published by the Bucks, Chester, Delaware and Montgomery County Conservation Districts in cooperation with the PaDEP, Bureau of Waterways, Wetlands and Erosion Control. For advertising information, call (610)892-9484.

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