

## **PADEP MS4 & STORM WATER WEBSITES**

Begin at the general DEP website: [www.depweb.state.pa.us](http://www.depweb.state.pa.us)

Click on DEP Keywords “Water Topics”;

From the drop down list, choose “Stormwater Management”

<http://www.dep.state.pa.us/dep/deputate/watermgt/wc/subjects/stormwatermanagement/default.htm>

This site has information on the new Pennsylvania Stormwater Best Management Practices (BMP) Manual and training events. Under “announcements”, there is more info on the BMP Manual plus info on the revised Pennsylvania Stormwater Model Ordinance. Under “general permits”, there is NPDES permit info, the MS4 resource CD, the MS4 annual report form and protocol (and also the Notice of Intent form and the request for waiver form), and Urbanized Area maps. Under “general information”, there is various storm water related information. Under “technical information”, there is info on Act 167, Post-Construction Storm Water Management, and various other storm water topics.

From the drop down list, choose “Water Management”, then “Bureau of Watershed Management”

<http://www.dep.state.pa.us/dep/deputate/watermgt/wc/default.htm>

This site has technical guidance, Fact Sheets, helpful links, and other storm water information.

From the drop down list, choose “Water Quality”;

<http://www.depweb.state.pa.us/watersupply/cwp/view.asp?a=1261&q=448024&watersupplyNav=|30184|>

This site has useful Water Quality Standards information related to existing surface water uses, stream re-designation, 303d impaired waters, TMDLs, and fish consumption advisories.

From the drop down list, choose “Watersheds”

<http://www.depweb.state.pa.us/watershedmgt/site/default.asp>

This site has information on County Conservation Districts, Growing Greener, Watersheds, DEP Regulations and Fact Sheets for Chapters 93, 102 & 105, and the PA Bulletin.

The DEP Southeast Regional Office website,

<http://www.depweb.state.pa.us/southeastro/site/default.asp>

also has useful storm water information, resources and links.

The DEP MS4 Protocol:

<http://164.156.71.80/VWRQ.asp?docid=7780d840f80b00000000b2000000b20&context=2&backlink=WXOD.aspx%3ffs%3d7780d840f80b000080000b1900000b19%26ft%3d1>

The DEP General MS4 Permit:

<http://164.156.71.80/VWRQ.asp?docid=7780d840f80b00000000b2300000b23&context=2&backlink=WXOD.aspx%3ffs%3d7780d840f80b000080000b1900000b19%26ft%3d1>

The MS4 Year 4 Annual Report form:

<http://164.156.71.80/WXOD.aspx?fs=7780d840f80b000080000e1500000e15&ft=1>

## US EPA MS4 & STORM WATER WEBSITES

The EPA MS4 regulations can be viewed at 40 CFR Part 122: EPA Administered Permit Programs: The National Pollutant Discharge Elimination System (start at 122.26)

[http://www.access.gpo.gov/nara/cfr/waisidx\\_05/40cfr122\\_05.html](http://www.access.gpo.gov/nara/cfr/waisidx_05/40cfr122_05.html)

The Federal Register of December 8, 1999 contains an explanation of the Phase II Storm Water Regulations found at 40 CFR Part 122 and includes the history and rationale behind the MS4 regulations. It is informative and recommended reading for MS4 permittees.

<http://www.gpoaccess.gov/fr/retrieve.html>

Select 1999 Federal Register, vol. 64; then enter page number 68722 and hit “submit”.

For further MS4/SW information and resources, begin at the general EPA website: [www.epa.gov](http://www.epa.gov)

Under the “Quick Finder” section, select “Water” (<http://www.epa.gov/ebtpages/water.html>); then

1. Select “Surf Your Watershed” (<http://www.epa.gov/surf/>), then select
  - a. “Adopt Your Watershed” (<http://www.epa.gov/adopt/>) to view educational, volunteer and other watershed information; or
  - b. “Environmental Websites” (<http://www.epa.gov/watershed/envsites/>) to view numerous URLs for environmental information.
  
2. Under “Browse these EPA Water subtopics”, select “Stormwater” (<http://www.epa.gov/ebtpages/watestormwater.html>), then select
  - a. “NPDES: Stormwater Program” ([http://cfpub1.epa.gov/npdes/home.cfm?program\\_id=6](http://cfpub1.epa.gov/npdes/home.cfm?program_id=6)) for useful storm water information and links, including SW Phase II Fact Sheets and measurable goals guidance (under “Phase 1 & Phase 2”); or
  - b. “NPDES” (<http://cfpub.epa.gov/npdes/index.cfm>) for an overview of the NPDES Program and to access links for Storm Water webcasts (past, present & future), BMPs, and educational materials:

Under “New and Revised Menu of Stormwater BMPs”, there are many useful resources at <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>;

Under “Stormwater Qualifying Local Programs”, [http://cfpub.epa.gov/npdes/docs.cfm?document\\_type\\_id=1&view=Policy%20and%20Guidance%20Documents&program\\_id=6&sort=name#qlp](http://cfpub.epa.gov/npdes/docs.cfm?document_type_id=1&view=Policy%20and%20Guidance%20Documents&program_id=6&sort=name#qlp) there is information on numerous topics, including:

    - “Economic Analysis of the Final Phase II SW Rule (by chapter & appendix)”
    - “Guidance for Municipal Stormwater Funding”
    - “IDD&E Guidance manual from CWP (by chapter and appendix)”
    - “Measurable Goals Guidance for Phase II Small MS4s”
    - “Stormwater Phase II Compliance Assistance Guide”

Under “Stormwater Education Materials”, there are numerous storm water outreach materials and reference documents available at: <http://cfpub.epa.gov/npdes/stormwatermonth.cfm>,

## US EPA MS4 & STORM WATER WEBSITES

3. Under “Browse these EPA Water subtopics”, select “Water Pollution”, then “Non-point Sources” (<http://www.epa.gov/ebtpages/watwatnonpointsources.html>), then “Polluted Runoff (Non-point Source Pollution)” (<http://www.epa.gov/owow/nps/>) for lots of useful information, including:
  - Educational information for students/educators
  - Outreach materials and toolbox
  - A kid’s page
  - Funding opportunities
  - Publications and information resources

For environmental education resources, go to <http://www.epa.gov/enviroed/>

For environmental finance programs, go to <http://www.epa.gov/efinpage>

For EPA Fact Sheets:

Overview of the Phase II program: <http://www.epa.gov/npdes/pubs/fact1-0.pdf>

Small MS4 overview: <http://www.epa.gov/npdes/pubs/fact2-0.pdf>

Who’s covered? <http://www.epa.gov/npdes/pubs/fact2-1.pdf>

Urbanized Areas: <http://www.epa.gov/npdes/pubs/fact2-2.pdf>

Examples of EPA storm water educational materials:

“After the Storm”: [http://www.epa.gov/npdes/pubs/after\\_the\\_storm.pdf](http://www.epa.gov/npdes/pubs/after_the_storm.pdf)

“Make Your Home the Solution to Storm Water Pollution”:

[http://www.epa.gov/npdes/pubs/solution\\_to\\_pollution.pdf](http://www.epa.gov/npdes/pubs/solution_to_pollution.pdf)

“Clean Water is Everybody’s Business”: [http://www.epa.gov/npdes/pubs/nps\\_urban-facts\\_final.pdf](http://www.epa.gov/npdes/pubs/nps_urban-facts_final.pdf)

“Storm Water Pollution Found in Your Area!” Door Hanger:

<http://www.epa.gov/npdes/pubs/doorhanger.pdf>

“Kids Storm Water Stickers”: <http://www.epa.gov/npdes/pubs/stormwaterstickers.pdf>

“10 Things That You Can Do to Prevent Storm Water Runoff Pollution” Bookmark:

[http://www.epa.gov/npdes/pubs/nps\\_month\\_bookmark.pdf](http://www.epa.gov/npdes/pubs/nps_month_bookmark.pdf)

“Take the Storm Water Runoff Challenge” placemat:

<http://www.epa.gov/npdes/pubs/stormwaterplacemat.pdf>

This pollution prevention measure targets automobile maintenance businesses and other groups running fleets of vehicles such as schools and police departments:

<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=95>

Detailed information and resources for storm drain marking/stenciling:

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet\\_results&view=specific&bmp=15](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet_results&view=specific&bmp=15)

Detailed information and resources for classroom education on storm water:

<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=8>

Storm water outreach for commercial businesses:

<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=6>

Residential car washing:

<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=96>

Pet waste management:

<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=4>

## **OTHER POTENTIALLY USEFUL MS4 & STORM WATER SITES**

The Center for Watershed Protection at <http://www.cwp.org> has an IDD&E Manual and many other educational resources and links, including “The Storm Water Manager’s Resource Center” at <http://www.stormwatercenter.net>

The Pennsylvania Organization for Watersheds and Rivers at <http://www.pawatersheds.org> has information on funding sources for watershed groups, finding a local watershed group, and other watershed information.

Access to online environmental resources is available through <http://www.envirolink.org>

The Environmental Directory (the world’s biggest environmental search engine) is available at <http://www.webdirectory.com>

This National Resources Defense Council site documents some of the most effective strategies being employed by communities around the country to control urban runoff pollution: <http://www.nrdc.org/water/pollution/storm/stoinx.asp>

The Pennsylvania Environmental Council at <http://www.pecpa.org> has general information, resources and links for storm water issues.

The Pennsylvania Resources Council at <http://www.prc.org> is a citizen action environmental organization and has information on rain barrels.

The Villanova Urban Stormwater Partnership at <http://www3.villanova.edu/vusp/> has information on storm water BMPs, education, databases, references, outreach, and the 2005 Pennsylvania Storm Water Management Symposium (will be presented again in October 2007).

Visit <http://www.asist.net/index.htm> for storm water management software products and tools for MS4s.

The Stroud Water Research Center at <http://www.stroudcenter.org> conducts water research and provides educational opportunities and information.

The Local Government Environmental Assistance Network at <http://www.lgean.org/html/exchange.cfm> is a public non-profit organization that provides technical, financial, informational and research services to local governments, including a toolbox and a resource organizations database.

Storm water finance information: <http://stormwaterfinance.urbancenter.iupui.edu/>

Planning Commissions can be viewed for Act 167 Plan and other useful information:

BCPC: <http://www.buckscounty.org/government/departments/communityservices/planningcommission/index.aspx>

CCPC: <http://www.chesco.org/planning>

Chester County Water Resources Authority: <http://www.chesco.org/water>

DCPD: <http://www.co.delaware.pa.us/planning>

MCPC: <http://planning.montcopa.org/planning/site/default.asp>

The Delaware Valley Regional Planning Commission: <http://www.dvrpc.org>

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The Environmental Management Assistance Program at <http://www.askemap.org/> provides free and confidential environmental assistance to small businesses (500 employees or less) dealing with environmental compliance, pollution prevention, waste minimization, water conservation, and energy efficiency issues.

The National Association of Flood & Storm Water Management Agencies has produced a guidance document for municipal storm water funding. A study of regionalization efforts for controlling storm water pollution in Maine may be of benefit to MS4s in the Southeast Region.



ISWG PPM713 Final  
Report.doc

Guidance%20Manual  
%20Version%202X.pdf

Local grant opportunities and contacts to help property owners and municipalities develop a financing strategy for storm water management and infrastructure improvements, including retrofit and demonstration projects:

National Fish & Wildlife Foundation provides special grant programs, Delaware Estuary Grants and Five Star Restoration Grants; phone = 202-857-0166; <http://www.nfwf.org>

US Dept. of Agriculture, Natural Resource Conservation Service; phone = 717-237-2215  
<http://www.pa.nrcs.usda.gov/programs/watershed.html>

PADEP, Growing Greener Grant Program;  
<http://www.depweb.state.pa.us/growinggreener/site/default.asp> Southeast Region contacts:  
Donna Suevo: 484-250-5823  
David Burke: 484-250-5822  
Kevin Munley: 484-250-5825  
Kimberly Long: 484-250-5826

PA Infrastructure Investment Authority (PennVest) implements a construction loan program and provides low interest loans and supplemental grants for infrastructure projects (including storm water); <http://www.pennvest.state.pa.us>

PA Coastal Zone Management Program (CZM) provides federal funds for projects in PA's coastal areas; <http://www.dep.state.pa.us/river/czmp.htm>

The League of Woman Voters implements Water Resources Education Network (WREN) Grants; <http://www.wren.palwv.org>

TreeVitalize; <http://www.treevitalize.net>

American Water implements an environmental grant program;  
[http://www.amwater.com/awpr1/about\\_water/conservation/index.html](http://www.amwater.com/awpr1/about_water/conservation/index.html)

County Conservation District Watershed Specialists:  
BCCD, Gretchen Schatsneider, 215-345-7577  
CCCD, Chotty Sprenkle, 610-925-4920  
DCCD, Jamie Anderson, 610-892-9484  
MCCD, Susan Harris, 610-489-4506

## **OTHER POTENTIALLY USEFUL MS4 & STORM WATER SITES**

### **MCMs 1 & 2 – Public Education, Outreach, Involvement and Participation:**

The PADEP MS4 information resource CD:

<http://www.dep.state.pa.us/dep/deputate/watermgmt/wc/npdsms4/ms4cd/default.htm>

EPA resources: <http://www.epa.gov/npdes/pubs/fact2-3.pdf>

<http://www.epa.gov/npdes/pubs/fact2-4.pdf>

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min\\_measure&min\\_measure\\_id=1](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=1)

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min\\_measure&min\\_measure\\_id=2](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=2)

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet\\_results&view=specific&bmp=23](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet_results&view=specific&bmp=23)

<http://govinfo.library.unt.edu/npr/library/papers/bkgrd/communicators.html> - A guide to help government officials communicate clearly to the public.

<http://www.epa.gov/epahome/students.htm> - Information and curricula for educating a variety of age groups.

<http://www.wef.org/sitemap.htm> - Water Environment Federation educational materials for students, educators and the public.

The Pennsylvania Center for Environmental Education at <http://www.pcee.org> provides environmental education materials and programs.

The Pennsylvania Association of Environmental Educators at <http://www.paee.net/> has information for environmental educators, including many links.

The Pennsylvania Department of Education, Environment and Ecology Section, at [http://www.pde.state.pa.us/env\\_eco/site/default.asp](http://www.pde.state.pa.us/env_eco/site/default.asp) has useful information. Select “Standards”, then “Environment & Ecology” to view educational standards.

The Pennsylvania Fish & Boat Commission at [http://sites.state.pa.us/PA\\_Exec/Fish\\_Boat/edind.htm](http://sites.state.pa.us/PA_Exec/Fish_Boat/edind.htm) has a learning center and educational information.

The National Association of Flood and Storm Water Management Agencies at <http://www.nafsma.org> has storm water education and guidance for municipal storm water funding.

The Partnership for the Delaware Estuary at <http://www.delawareestuary.org/> provides educational and outreach resources, including information for children, teachers, communities and volunteers.

The Philadelphia Water Department, Office of Watersheds, has developed a useful “Homeowner’s Guide to Storm Water Management” (<http://www.phillyriverinfo.org>).

## **OTHER POTENTIALLY USEFUL MS4 & STORM WATER SITES**

Pennsylvania Cleanways at <http://www.pacleanways.org> provides information and education on stream/litter cleanups and programs.

<http://www.earthwater-stencils.com> provides educational and stenciling resources (in English and Spanish).

The Air & Waste Management Association's Environmental Education Council at <http://www.awma.org/education> has classroom lesson plans for non-point source pollution prevention for K-12.

<http://www.greentreks.org/watershedstv/index.asp> provides watershed resources, education and links

<http://www.greentreks.org/eacnetwork/index.asp> provides Environmental Advisory Council information, resources and links.

<http://www.greenworks.tv/stormwater/videotopics.htm> provides videos on storm water BMPs.

The Riversides Stewardship Alliance at <http://www.riversides.org/index.php?cat=3> provides educational information, including a homeowners guide to rainfall.

For storm drain stenciling resources, go to <http://www.dasmanufacturing.com/storm/index.html> or <http://www.separed.org/Council%20Projects.htm>

Local watershed groups can be a very valuable resource for public education and participation:

The Brandywine Valley Association: <http://www.brandywinewatershed.org>

The White Clay Creek Watershed Association: <http://home.ccil.org/~wcwa/>

The White Clay Creek Watershed Management Committee: [http://mercury.ccil.org/%7ewcc\\_ws/](http://mercury.ccil.org/%7ewcc_ws/)  
(visit "Useful Information" for info on rain gardens, bio-retention, and recommended native plants).

The Chester, Ridley, Crum Watersheds Association: <http://www.crcwatersheds.org>

The Darby Creek Valley Association: <http://www.dcvva.org>

The Green Valleys Association: <http://www.greenvalleys.org>

The Perkiomen Watershed Conservancy: <http://www.perkiomenwatershed.org>

The Wissahickon Valley Watershed Association: <http://www.wvwa.org>

### **MCM 3 – Illicit Discharge Detection & Elimination:**

<http://www.epa.gov/npdes/pubs/fact2-5.pdf>

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min\\_measure&min\\_measure\\_id=3](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=3)

The Center for Watershed Protection Illicit Discharge Detection & Elimination guidance manual, chapter by chapter, including the appendices:

[http://cfpub.epa.gov/npdes/docs.cfm?program\\_id=6&view=allprog&sort=name#idde manual](http://cfpub.epa.gov/npdes/docs.cfm?program_id=6&view=allprog&sort=name#idde manual)

## **OTHER POTENTIALLY USEFUL MS4 & STORM WATER SITES**

### **MCMs 4 & 5 - Erosion & Sediment Control and Post-Construction SW Management:**

<http://www.epa.gov/npdes/pubs/fact2-6.pdf>

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min\\_measure&min\\_measure\\_id=4](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=4)

<http://www.epa.gov/npdes/pubs/fact2-7.pdf>

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min\\_measure&min\\_measure\\_id=5](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=5)

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet\\_results&view=specific&bmp=91](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet_results&view=specific&bmp=91)

The Pennsylvania Association of Conservation Districts at <http://www.pacd.org/> provides E&S, BMP, and educational resources.

The Bucks County Conservation District: <http://www.bucksccd.org/>

The Chester County Conservation District: <http://www.chesco.org/conservation/>

The Delaware County Conservation District: <http://www.delcocd.org/>

The Montgomery County Conservation District: <http://www.montgomeryconservation.org/>  
(includes a virtual BMP tour)

The Construction Industry Compliance Assistance Center at <http://www.cicacenter.org/stormwater.html> has information on low impact development, a storm water construction industry poster, and SW BMP information and research.

Information on low impact development and urban design tools for retrofits and new/re-development is available at <http://www.lid-stormwater.net>

Information on the design, selection and performance of SW BMPs is available at <http://www.bmpdatabase.org>

Storm water management information is available at <http://www.stormwaterauthority.org>

<http://www.ieca.org> – Erosion and sediment control education and resource information.

<http://www.lowimpactdevelopment.org> – Useful information from the Low Impact Development Center.

<http://www.epa.gov/owow/nps/lid> - Links to EPA documents and other helpful organization web sites.

<http://www.epa.gov/livability> - Information on smart growth topics and EPA funding sources, and links to other helpful web sites.

Visit [www.ndspro.com](http://www.ndspro.com) for SW BMP/drainage products and compliance solutions.

<http://www.nrdc.org/water/pollution/rooftops/contents.asp> - Information and case studies on green infrastructure alternatives to traditional hardscape solutions to wet weather discharge problems

## **OTHER POTENTIALLY USEFUL MS4 & STORM WATER SITES**

### **MCM 6 – Pollution Prevention & Good Housekeeping for Municipal Operations:**

<http://www.epa.gov/npdes/pubs/fact2-8.pdf>

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min\\_measure&min\\_measure\\_id=6](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=6)

The Local Government Environmental Assistance Network maintains a useful storm water toolbox for maintenance practices at <http://www.lgean.org/html/toolbox.cfm>. Select the storm water drawer for information on operation, inspection and maintenance guidelines/checklists for municipal storm water systems/facilities.

For guidance on the environmental management of road salt used for control of snow and ice, go to <http://www.ec.gc.ca/nopp/roadsalt/reports/ParkingLot/EN/ToC.cfm> or <http://www.riversides.org/index.php?cat=3&page1=8>