



DUTCHESS COUNTY SOIL AND WATER CONSERVATION DISTRICT  
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TOWN OF POUGHKEEPSIE

JOSEPH E DAVIS SUPV

April 7, 2005

RECEIVED 4/11/05 MESC

Joseph Davis  
Supervisor, Town of Poughkeepsie  
1 Overocker Rd  
Poughkeepsie, NY 12603

RE: MS4 Phase II Stormwater Annual Report Attachment

Dear Supervisor Davis:

Attached please find a summary of activities completed and documented by Dutchess County Soil and Water Conservation District that are related to accomplishment of the Six Minimum Measures required for municipal compliance with SPDES Permit GP-02-01. Please append this report to your annual report to NYSDEC. All activities in which DCSWCD has provided assistance should be briefly stated in the main table of the report, and reference this attachment for details.

We look forward to continuing to work closely with MS4 communities throughout the County to provide services related to attainment of the Six Minimum Measures outlined in the MS4 Phase II Stormwater Permit. As always, please do not hesitate to contact me at (845) 677-8011, ext. 3, if you have any questions or suggestions.

Best Regards,

David H. Kubek  
Conservation District Technician

Enc.



(845) 871-1000

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4/12/05  
Copy to Don Beer.  
Then FILE

# Dutchess County Soil and Water Conservation District

## Report of Assistance to Regulated MS4 Communities

The Dutchess County Soil and Water Conservation District (DCSWCD) has been providing assistance to MS4 communities throughout the County in fulfilling the requirements of Phase II SPDES Permit GP-02-02. The following summarizes activities sponsored by DCSWCD during Year 2 of the Phase II Stormwater Program (March 2004-March 2005) that have helped various MS4s achieve the objectives they have set under the six various Minimum Control Measures. Also included is information on activities that DCSWCD plans to undertake in Year 3 (March 2005-March 2006) to achieve these objectives.

### MINIMUM MEASURE 1: Public Education and Outreach

#### Year 2

#### *Plan and conduct an ongoing public education and outreach program*

In Year 2 of the Phase II program, Dutchess County Soil and Water's annual newsletter, "Conservation News", was distributed to numerous households within the various MS4 communities. The newsletter contained information about maintaining a safe water supply, as well as pond management and landscaping techniques home owners can use to benefit water quality. Using the mailing addresses to which the newsletter was sent, we tracked the quantity distributed to each.

Municipality	No. of copies distributed
Beacon (C)	27
Beekman (T)	577
East Fishkill (T)	244
Fishkill (T)	132
Fishkill (V)	82
Hyde Park (T)	186
LaGrange (T)	332
Pawling (T)	113
Pawling (V)	21
Pleasant Valley (T)	292
Poughkeepsie (T)	410
Poughkeepsie (C)	147
Wappinger (T)	240
Wappingers Falls (V)	96
TOTAL - Dutchess Co.	2900

DCSWCD had two manned displays at the Dutchess County Fair August 25-29, 2004. The displays explained the Phase II Stormwater Program, the concept of nonpoint source pollution in watersheds, and the impacts of various homeowner activities on water quality through stormwater runoff. DCSWCD tracked the distribution of households that viewed the display among municipalities in the County by using a map survey.

Assorted publications regarding these and related topics were distributed to the public at these exhibits. The following numbers represent the total from each municipality, based on the results of the map survey and the total amount of educational material handed out:

Beacon, C	242
Beekman	658
East Fishkill	762
Fishkill, T	485
Fishkill, V	139
Hyde Park	1420
LaGrange	1039
Pawling, T	173
Pawling, V	15
Pleasant Valley	901
Poughkeepsie, C	346
Poughkeepsie, T	1178
Wappinger, T	485
Wappingers Falls, V	35
Dutchess County	15000

In Year 2, Dutchess County also hosted the Annual Envirothon, as a program of competition for high school students. Participating in the event were three schools within the County (Arlington High School, J.H. Ketcham High School, and Spackenkill High School). Five students from each school took part in the regional competition. The program challenges students to expand their knowledge of environmental science by testing them on topics such as soils, aquatics, forestry, wildlife, and current environmental issues. These school districts represent the following MS4s:

**Arlington** - LaGrange (T), Poughkeepsie (T), Pleasant Valley (T), Beekman (T), East Fishkill (T), Wappinger (T)  
**JH Ketcham** - Wappinger (T), Wappingers Falls (V), Fishkill (T), Fishkill (V), East Fishkill (T)  
**Spackenkill** - Poughkeepsie (T)

In other educational activities, DCSWCD (in cooperation with NYCDEP and Zarecki and Associates) gave a presentation to 70 high school students at Arlington High School regarding erosion control and water quality issues (please see above for school districts). DCSWCD also presented the Enviroscope, a learning tool that demonstrates water quality concerns in a watershed, to about 20 grade school (K through 5) students in Pawling, about 30 emotionally disturbed students (grades K through 4) in Rhinebeck, and 10 day camp program participants (ages 6 through 10) in Hyde Park.

Finally, the Town of East Fishkill distributed approximately 12,000 copies of a brochure produced by DCSWCD entitled "Preventing Stormwater Pollution: Tips for Home Owners" with its property tax receipts.

### Year 3

#### *Plan and conduct an ongoing public education and outreach program*

During Year 3, DCSWCD will continue distribution and tracking of the Annual Newsletter and participation in the Hudson Valley Regional Envirothon, and will also continue to offer educational programs regarding water pollution and the watershed concept for all age groups throughout the county. In addition, DCSWCD will continue to make available a brochure entitled "Preventing Stormwater Pollution: Tips for Home Owners" for distribution by various municipalities.

DCSWCD will also sponsor a Conservation Field Day during 2005 to provide an opportunity for fifth grade students providing hands-on workshops to help them learn about environmental issues, including soil conservation and water pollution.

Also, DCSWCD will host two public education sessions to discuss stormwater pollution issues and provide an overview of the Phase II Stormwater Program and how it affects residents of regulated MS4 communities, as well as other municipalities in the County.

### **MINIMUM MEASURE 2: Public Involvement and Participation**

#### Year 2

#### *Public involvement/participation program*

DCSWCD conducts a tree and shrub seedling sale every year. The program represents an opportunity to purchase vegetative material in large quantities at relatively inexpensive rates. These trees are generally used in plantings that help to prevent soil erosion, attenuate runoff, and also are beneficial to wildlife and watershed health. In particular, the plants offered by DCSWCD are utilized in establishment of riparian buffers. DCSWCD distributes educational information about proper planting and use of the material to maximize conservation value. Using the number of seedlings distributed and standard spacing for plantings, we estimated the number of acres planted by land owners in each municipality during Year 2 of the Phase II Stormwater Program:

<b>Municipality</b>	<b>number of plants</b>	<b>acres</b>
Beacon (C)	0	0
Beekman (T)	1350	3.00
East Fishkill (T)	3150	7.00
Fishkill (T)	525	1.17
Fishkill (V)	0	0
Hyde Park (T)	3300	7.33
LaGrange (T)	1825	4.06
Pawling (T)	750	1.67
Pawling (V)	750	1.67

<b>Municipality</b>	<b>number of plants</b>	<b>acres</b>
Pleasant Valley (T)	3675	8.17
Poughkeepsie (C)	4050	9.00
Poughkeepsie (T)	975	2.17
Wappinger (T)	2770	6.16
Wappingers Falls (V)	725	1.61
TOTAL - Municipal MS4's	23845	52.99
TOTAL - Dutchess County	60512	134.47

### **Year 3**

#### ***Public involvement/participation program***

DCSWCD will repeat the tree and shrub program during Year 3.

### **MINIMUM MEASURE 3: Illicit Discharge Detection and Elimination**

#### **Year 3**

##### ***Outfall mapping***

Using funding from NYSDEC Contract No. C302492, DCSWCD plans to complete a number of activities during Year 3 that pertain to Minimum Measure 3. Using a Global Positioning System (GPS) and Geographic Information Systems (GIS) software, DCSWCD will complete mapping of all stormwater outfalls discharging to Waters of the State within each regulated MS4 community. Collection of data will follow NYSDEC protocol. DCSWCD will coordinate with the highway departments of the municipalities to locate and identify outfalls.

##### ***Illicit discharges identified***

During the survey, DCSWCD will also identify and characterize any dry-weather flows or other evidence of illicit discharges that are discovered.

##### ***Public, employees, businesses informed of hazards from illicit discharges***

DCSWCD also will visit each highway department garage to provide training to employees regarding how to identify and report illicit discharges, using dry-weather flows and other evidence.

## MINIMUM MEASURE 4: Construction Site Runoff Control

### Year 2

DCSWCD assisted several of the MS4 communities with review of Stormwater Pollution Prevention Plans. The following are the total number of such reviews performed:

Town of Poughkeepsie – 8  
Town of LaGrange – 2  
Town of Hyde Park – 4  
Town of Pawling – 2

### *Education and training of construction site operators*

DCSWCD hosted a Contractors' Training Workshop on February 14, 2005 to educate land contractors, engineers, developers, building inspectors and landscape architects in the county regarding the requirements of GP-02-01 (Phase II Stormwater General Construction Permit) and the key principles of erosion and sediment control on a construction site. 92 individuals from the above vocations attended the 6-hour program.

Also during Year 2, DCSWCD created a brochure entitled "Phase II Construction Requirements and Your Development", discussing the permitting requirements of GP-02-02 and what is expected of property owners and contractors in order to be in compliance with the new regulations. DCSWCD distributed over 2000 copies of the brochure throughout the county. Each municipality was asked to make the publication available in their building department for distribution to prospective developers who came in requesting building permits. The following represent the numbers distributed in the regulated MS4 communities county-wide:

Beacon (C)	75
Beekman (T)	100
East Fishkill (T)	150
Fishkill (T)	100
Fishkill (V)	50
Hyde Park (T)	100
LaGrange (T)	125
Pawling (T)	100
Pawling (V)	25
Pleasant Valley (T)	100
Poughkeepsie (C)	150
Poughkeepsie (T)	125
Wappinger (T)	100
Wappingers Falls (V)	125
TOTAL (Dutchess County)	3000

### Year 3

#### *Education and training of construction site operators*

During Year 3, DCSWCD will reprint and continue distribution of the brochure, "Phase II Construction Requirements and Your Development". DCSWCD also plans to host another erosion and sediment control/stormwater management training session for land contractors and engineers. This training will include a trip into the field to demonstrate how practices should be installed to comply with New York State Standards and Specifications. This work will be completed under NYSDEC Contract No. C302492.

#### *Site inspection and enforcement*

DCSWCD will offer training to building inspectors and code enforcement officers in all regulated MS4 communities demonstrating how to properly inspect sites for erosion and sediment controls and stormwater management practices, and to ensure that Stormwater Pollution Prevention Plans are being properly implemented. This work will also be completed under NYSDEC Contract No. C302492.

#### *Require construction site plan review*

DCSWCD will also offer training sessions for planning board members in all regulated MS4s, which will concentrate on site plan review for adequate erosion and sediment control and stormwater management. This will likewise be completed under NYSDEC Contract No. C302492.

### **MINIMUM MEASURE 5: Post-Construction Stormwater Management**

#### Year 2

#### *Assess existing conditions throughout the MS4 and identify appropriate management practices to reduce pollutant discharge to the maximum extent practicable*

DCSWCD works with all municipalities in Dutchess County on an ongoing basis to identify opportunities for stormwater retrofits, and if possible, provide assistance with implementation. Presently, DCSWCD is working with the Town of Poughkeepsie to devise and implement a strategy for retrofitting the drainage system of the residential neighborhood north of Reese Audubon Sanctuary, south of Channingville Road, in order to prevent continuing erosion problems. DCSWCD is also working with the Village of Wappingers Falls to install two Vortech units that will treat stormwater runoff from Route 9 before it enters Wappingers Lake (a 303(d)-listed water body).

During Year 2, DCSWCD also worked with Dutchess County Department of Public Works and the Town of Beekman to assess an erosion problem south of the intersection of Beekman Road and Martin Road along Fishkill Creek. The parties will work together

to create a strategy to address the problem and also obtain funding for appropriate management practices. DCSWCD also identified and obtained funding to stabilize two stormwater outlets along Wappinger Creek in the Town of Pleasant Valley near the Cady Recreation Park, in conjunction with proposed streambank restoration work in the same area.

### **Year 3**

#### ***Assess existing conditions throughout the MS4 and identify appropriate management practices to reduce pollutant discharge to the maximum extent practicable***

DCSWCD will continue to move forward in providing assistance with projects already identified. DCSWCD will cooperate with Town highway and engineering departments in all regulated MS4 communities to assess their drainage systems and identify additional retrofit possibilities. The outfall mapping program will provide an opportunity to inspect existing structures and locate problem areas.

### **MINIMUM MEASURE 6: Pollution Prevention and Good Housekeeping**

#### **Year 3**

#### ***Conduct employee pollution prevention training***

During Year 3 (March 2005-March 2006), DCSWCD will offer a presentation to each of the highway departments in the regulated MS4 communities. During the session, DCSWCD will discuss Best Management Practices for pollution prevention. DCSWCD will also train the employees to properly record all maintenance and disposal activities. Finally, DCSWCD will tour the highway department facilities and identify opportunities for upgrades using practices from the New York Standards and Specifications for Erosion and Sediment Control and the New York State Stormwater Management Design Manual. This work will be completed under NYSDEC Contract No. C302492.

#### ***Prevent discharge of pollutants from municipal operations***

DCSWCD also will develop a Pollution Prevention Handbook to complement the above training sessions. The handbook will include details of best management practices and tables for recordkeeping of pollution prevention activities. This work will also be completed under NYSDEC Contract No. C302492.