



**Phase II SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s), GP-02-02
STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT (SWMPAR) TABLE**

Regulated MS4: Town of Poughkeepsie **SPDES Permit Number:** **NYR20A198**

Annual Report Table for year ending: March 9, 2006 (Year 3) x 2007 (Year 4) 2008 (Year 5)

Information about how to complete the follow tables is in the instruction section. Please complete the tables electronically, if possible. Send two completed **hard copies** (an original and a photocopy) of this Annual Report Table, the MCC form and any attachments to the DEC Central Office (MS4 Permit Coordinator, 625 Broadway, Division of Water - 4th Floor, Albany, NY 12233-3505). **DO NOT SUBMIT REPORTS IN THREE-RING BINDERS.**

Minimum Control Measure 1. Public Education and Outreach

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.1.a, b: Plan and conduct an ongoing public education and outreach program to ensure the reduction of all pollutants of concern in stormwater discharges to the maximum extent practicable (MEP).</p> <ul style="list-style-type: none"> • <i>Explain the program, including activities and materials used</i> • <i>Identify the personnel or outside organization conducting the activity.</i> • <i>Indicate activities planned for next year.</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
(Specific Criteria 1 (SC.1)) Address priority pollutants/audiences/geographic areas	(YEAR 4) Public education/outreach priority to target the pollutants listed in the 303(d)/TMDL listed waterbodies' watersheds
(SC.2) Address 303(d)/TMDL discharges	(YEAR 4) Public education/outreach priority in the Wappinger watershed targeted to reduce phosphorus transport. (YEAR 4) Public education/outreach priority in the Wappinger and Fallkill watersheds targeted to reduce sediment transport
(06.1) Education and Outreach to the General Public	Approx. 150 copies of assorted pollutant reduction brochures distributed at planning. building, tax receiving, (March 2005-March 2006)
(07.1) Continued public education and outreach	Town Planning Board attended stormwater training presentation by DCSWCD staff. (May, 2006); SWMP Coordinator and public contact attended EPA "Getting in Step" works shop in Albany NY (June 2006); Approx. 150 copies of assorted brochures distributed at planning. building, tax receiving, (March 2006-March 2007); Stakeholders invited to "Water, Water Everywhere: Water Issues in DutchessCounty." Workshop sponsored by Cornel Coop Extension (JAN 2007); Web page link added to "After the Storm" (FEB, 2007)

	<p>Web page links added to educational DCSWCD clearinghouse on town website and identifying public contact (FEB 2007); “After the Storm” video aired on local ComCast channel (FEB 2007); Collaboration with stakeholders (SEE MM2) to promote educational events and programs, particularly for priority pollutants/watersheds (ONGOING); SWMP Coordinator & SWMP public contact scheduling to meet with stake holders (See MM2) to present SWMP and encourage cooperation in education and involvement activities (ONGOING);</p>
(08.1) Fully implemented public education and outreach	<p>Grounds keeping and Building Maintenance staff from IBM, Marist, Vassar, DCC, and DCBOCES invited to attend stormwater training by DCSWCD (April 2007); Full information sharing and promotion of educational events and programs between SWMP public contact and stakeholders planned. (JAN 2008); SWMP educational messages included in tax and water bills (Jan 2008); “After the Storm” or other public domain educational to be aired on public access channel 22 (JAN 2008)</p>
SWMP Coordinator and Public Contact aware of development of opportunity to participate in county wide education and outreach programs targeting sediment and phosphorus reduction available through DCSWCD	SWMP Coordinator and Public Contact attended monthly county wide coordination meetings at DCSWCD offices where event planning is announced (ONGOING)
Contractors/Professionals/Municipal Employees & other interested parties informed of DCSWCD stormwater training seminars & workshops by SWMP Coordinator & Public Contact	<p>40 contractors/ professionals/ municipal employees invited to DCSWCD Erosion control Workshop February 14, 2005; 29 attended as well as members of the Town CAC</p> <p>(Year 5) SWMP Coordinator & SWMP public contact will continue to invite Contractors/Professionals/Municipal Employees & other interested parties to educational workshops. (Ongoing)</p>
Distribution of educational materials targeting phosphorus and sediment reduction	12,864 Urban Stormwater pollution prevention mailers distributed in School Tax bills and receipts (OCT. 2005)

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Project WET	Contact Established; 150 educators invited to attend project wet Training workshop in June 2004; 3 educators attended workshop
Additional Techniques	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
(SC.3) Evaluation of effectiveness of BMPs	The coordinator and public contact annually consider the effectiveness (accuracy of hitting target audience, message packaging, efficiency of distribution)of ongoing public education activities and will continue or alter methods as needed.
LOW IMPACT DEVELOPMENT	The Planning board encourages the use of low impact development techniques during review. (Ongoing) (YEAR 5) The planning board will continue to request low impact development during review (Ongoing)
DCSWCD MS4 Assistance Activities	(YEAR 2) See Schedule A, Year 2 Annual Report (YEAR 3) See Schedule A, Year 3 Annual Report (YEAR 4) See Schedule A, Year 4 Annual Report (YEAR 5) SWMP coordinator and public contact will continue to attend DCSWCD monthly coordination meetings
Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change: (Year 3) DCSWCD training and workshops made priority items over Project WET due to substantially larger effectiveness. (Year 4) Further developed “Pollution prevention for businesses management” practice cited in NOI under MM3-IDDE. (Year 4) Annual Report revised to address criteria established in July 2006 “Critical Path to Compliance”	

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Minimum Control Measure 2. Public Involvement/Participation

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

Permit Reference IV.C.2.c.iii.: Design and conduct a public involvement / participation program. <ul style="list-style-type: none"> • <i>Describe activities that the MS4 has/will undertake to provide program access to interested individuals and to gather needed input.</i> • <i>Indicate activities planned for next year.</i> 	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
(SC.4)Address 303(d)/TMDL discharges	(YEAR 4) Promotion of Public Involvement events priority to target the pollutants listed in the 303(d)/TMDL listed waterbodies' watersheds
(SC.5)Address priority pollutants/audiences/areas of concern	(YEAR 4) Promotion of Public Involvement events priority in the Wappinger watershed targeted to reduce sediment transport. (YEAR 4) Promotion of Public Involvement priority in the Wappinger and Fallkill watersheds targeted to reduce phosphorus transport
(05.2) Identification of Key Stakeholders	(YEAR 4)Vassar College, Clearwater, Scenic Hudson, Fallkill Association, Mid Hudson Trout Unlimited, Mid Hudson ADK, Poughkeepsie CAC, Wappinger Creek Watershed Intermunicipal Council, Mid Hudson Road Runners Club, Marist College, Hudson Valley Council BSA added to list of interested parties/Stakeholders (March 2007).
(05.3) Plan for Public involvement prepared	(Year 4) Draft Public Involvement component of SWMP document prepared (MARCH 2007) The Public Involvement component of the SWMP will consist of the Public Contact compiling and managing a list of interested parties or stakeholders to assist in promoting and advertising education and involvement opportunities and encouraging volunteerism at stewardship events. These interested parties and Stakeholders will also be contacted to provide input or expertise on the SWMP and comment on the Annual Reports.
(05.4) Completed activities by Public	Water quality sampling conducted along Fallkill Creek by Marist college, Dutchess County EMC
(06.1) Stewardship activities	Watershed Management conference conducted by Clearwater and the Fall Kill Watershed Committee (Fall 2005), Fallkill creek cleanup conducted by Fall kill Watershed committee and Scenic Hudson (Spring 2006)

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<p>(07.1)Continued Public Involvement</p>	<p>“Watershed Management Plan for the Fall Kill” prepared by Fall Kill Watershed Committee detailing results of water quality sampling and recommendations for watershed management.</p> <p>The Environmental Institute at Vassar College conducts monthly sampling of the Casperkill, and made policy recommendations to the Town Board, and is promoting creek cleanup and education activities at its Sept 2006 Casperkill Forum. (ONGOING)</p> <p>SWMP Coordinator & SWMP public contact scheduling to meet with stake holders (See MM2) to present SWMP and identify in education and involvement activities (ONGOING);</p>
<p>(08.1) Full implementation of public involvement/ participation</p>	<p>MID-HUDSON ADK clean-up at Quiet Cove Park; 8 volunteers removed enough debris to fill a 50 gallon can (APRIL 2007); ADK plans on sponsoring the event in 2008 on the 1st weekend in May and is looking to include youth members and non-members.</p> <p>SWMP coordinator and SWMP public contact met with Town of Poughkeepsie CAC to discuss SWMP and identify public education and involvement opportunities (MARCH 2007); Public Involvement component of SWMP document to be finalized (JAN2008)</p>
<p>SWMP Public Contact maintains list of interested members of the public and Stakeholders</p>	<p>List of interested parties compiled (AUGUST 2005) and maintained (Ongoing)</p>
<p>Interested parties and Stakeholders informed of Annual report comment period by SWMP Public Contact and SWMP input requested</p>	<p>Interested parties contacted via mailer (March 2006) Interested parties contacted via e-mailer (April 2007)</p> <p>(YEAR 5) SWMP public contact will continue to contact Stakeholders for annual report comment & input regarding SWMP (ONGOING)</p>
<p>Public Access to documents and information</p>	<p>(YEAR 1) 2003-2004Annual report made available on town website and at town hall (YEAR 2) 2004-2005 Annual Report made available on town website</p>

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	<p>and at town hall (June 2005)</p> <p>(YEAR 3) 2005-2006 Draft Annual Report made available on town website and at town hall (APRIL 2006)</p> <p>(YEAR 3) 2005-2006 Annual Report made available on town website and town hall (JUNE 2006)</p> <p>(YEAR 4) 2006-2007 Draft annual Report available on town website and at town hall (APRIL 2007)</p> <p>(YEAR 4) 2006-2007 Final annual Report available on town website and at town hall (JUNE 2007)</p> <p>(YEAR 5) 2007-2008 Draft annual Report will be available on town website and at town hall (APRIL 2008)</p> <p>(YEAR 5) 2007-2008 Final annual Report will be available on town website and at town hall (JUNE 2008)</p>
<p>Public Presentation and comments on SWMP and annual report</p>	<p>(YEAR 2) 2004-2005 Draft Annual Report presented at May 4th and 18th Town Board Meetings. Public comment collected at meeting and via writing after the 18th.</p> <p>(YEAR 3) 2005-2006 Draft Annual Report presented at April 5th and 19th Town Board Meetings and comments collected</p> <p>(YEAR 4) 2006-2007 Draft Annual Report presented at April 18th with written comments accepted at May 16 meeting.</p>
<p>Public comment & input responded to by Town Board, SWMP Coordinator or SWMP Public Contact</p>	<p>(YEAR 2) Comments on the 2004-2005 Draft Annual Report received at the Town Board meetings on May 4th and 18th where immediately responded to by the Town Supervisor. Comments received in writing after the 18th where responded to in writing and included in an addendum to the annual report and made available to the public. (AUGUST 2005)</p>

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		(YEAR 3) Comments on the 2005-2006 Draft Annual Report received at the Town Board meetings on April 5 th and 19 th responded to in writing by and included in the annual report. (MAY 2006)
		(YEAR 4) Comments on the 2006-2007 Draft Annual Report responded to and incorporated in Appendix B of this Final annual Report.
Permit Reference IV.C.2.a, f: Develop procedures to provide public notice about and access to documents and information in a manner that complies with state and local public notice requirements. <i>Describe procedures below and state the methods used to publicize the AR public presentation.</i>		
Public Notice given as announcement at prior Town Board meetings and in stakeholders contacted to request comment		
Permit Reference IV.C.2.e: Public presentation of f ; summary of comments received on; and g : intended response to comments on the SWMPAR.		
Summarize attendance at the public presentation of the Annual Report. Include number of attendees and who was represented: <i>1 member of the public provided comment in writing after attending the meeting</i>		
Comments on Annual Report Meeting ___ No public comments received on Annual Report. ___ Comments received. Attach summary of comments and intended responses.	Date of Annual Report Meeting: 4/18/07 & 5/16/07	Approximate Date of Meeting Next Year: April 2008
Additional Techniques	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)	
(SC.6)Effectiveness of BMP's evaluated	SWMP coordinator and public contact annually review	
DCSWCD MS4 Assistance Activities	(YEAR 2) See Schedule A, Year 2 Annual Report (YEAR 3) See Appendix A, Year 3 Annual Report (YEAR 4) See Schedule A, Year 4Annual Report (YEAR 5) SWMP coordinator and public contact will continue to attend DCSWCD monthly coordination meetings	
Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change: (YEAR 3) No changes (Year 4) The SWMP public contact will meet with stakeholders and promote/ assist in information sharing between stakeholders for activities in addition to the storm drain stenciling and cleanups indicated in the NOI.		

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(Year 4) Annual Report revised to address criteria established in July 2006 “Critical Path to Compliance”

(Year 4) SWMP modified to address 02/08/2007 NYSDEC review comments on Year 3 Annual Report. Additional Stakeholders have been identified and public involvement and stewardship activities are in the process of being documented.

Minimum Control Measure 3. Illicit Discharge Detection and Elimination (IDDE)

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.3.a: Develop, implement and enforce a program to detect, identify and eliminate illicit discharges, including illegal dumping, into the MS4.</p> <ul style="list-style-type: none"> <i>Explain the activities and procedures used to meet this requirement this year and planned for next year.</i> <i>Revise as procedures are updated.</i> <i>Identify personnel or outside organization conducting the activities</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <ul style="list-style-type: none"> <i>Example measurable goals: number of illicit discharges detected; number of illicit discharges eliminated.</i>
(SC.1)Address 303(d)/TMDL discharges	IDDE priority identified in 303d/TMDL watersheds (March 2007)
(SC.2)Address priority pollutants/audiences/areas of concern	<p>IDDE inspection priority in the Wappinger watershed to identify and eliminate illicit discharges containing phosphorus and sediment (March 2007)</p> <p>IDDE inspection priority in the Fallkill watershed to identify and eliminate illicit discharges containing sediment (MARCH 2007)</p>
(SC.4)Dry weather surveys conducted	68% of the outfalls in the town (405 of <i>approx</i> 600) have had dry weather surveys conducted. Outfalls where inspected in the Fallkill, Wappinger & Hudson watersheds (March 2006) Approximately 195 outfalls remain to be inspected in the Casperkill watershed, which is planned to be conducted by DCSWCD staff (JAN 2008).
(SC.5)Percentage of outfalls mapped	68% of outfalls in the town (405 of <i>approx</i> 600) have been mapped. Outfalls where mapped in the Fallkill, Wappinger, & Hudson watersheds (MARCH 2006) Approximately 195 outfalls remain to be mapped in the Casperkill watershed, which is planned to be conducted by DCSWCD staff (JAN 2008).
(06.3) Illicit discharge prohibition ordinance enacted	Ordinance enacted May 18, 2005
(07.2) Local law adopted	Ordinance enacted May 18, 2005
(08.1) Compliance and continuing implementation of IDDE program	

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<p>Outfall Reconnaissance Inventory (ORI) Inspection of existing outfalls to identify illicit discharges</p>	<p>(YEAR 2) 230/230 Wappinger watershed outfalls inspected (8/2005)</p> <p>(YEAR 3) Fallkill outfalls (approx 65) inspected by town engineer 2 possible illicit discharges identified (MARCH 2006); Hudson outfalls (approx 110) inspected by town engineer (OCT 2005). Highway department staff trained to report noticeable illicit discharges/illegal connections to engineering department if discovered. (2/7/2006)</p> <p>(Year 5) Casperkill to be inspected by DCSWCD staff (JAN 2008). Highway department staff will continue to report any noticeable illicit discharges or illegal connections discovered to engineering dept.</p>
<p>Procedure established/identified for tracing illicit discharges to source</p>	<p>(YEAR 5) A combination of storm drain network investigation, drainage area investigation, on site investigation, and septic system investigation will be used by town engineer to trace illicit discharges to their source as illicit discharges are identified</p>
<p>Enforcement to remedy/remove source of illicit discharge</p>	<p>(YEAR 5) The town will take enforcement actions authorized by the Illicit discharge prohibition ordinance as necessary to eliminate sources of illicit discharges as they are identified (ONGOING)</p>

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<p>Permit Reference IV.C.3.b: Develop and maintain a map showing the location of all outfalls and the names and location of all waters of the US that receive discharges from outfalls. <i>Explain activities performed this year and planned for next year, including work on the following IDDE guidance prerequisites:</i></p> <ul style="list-style-type: none"> • field verification of outfall locations; • mapping all inter-municipal subsurface conveyances; • delineating storm sewershed; and • developing and retaining MS4 mapping as needed to find the source and identify illicit discharges. <i>State if maps are in GIS.</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <ul style="list-style-type: none"> • <i>Example measurable goals: percent of outfalls mapped</i>
(05.3) Compilation of existing outfall location information	68% of outfalls in the town (405 of <i>approx</i> 600) have been mapped. Outfalls where mapped in the Fallkill, Wappinger, & Hudson watersheds (MARCH 2006) Approximately 195 outfalls remain to be mapped in the Casperkill watershed, which is planned to be conducted by DCSWCD staff (JAN 2008).
(06.6)Process to map outfalls developed	Outfalls are located and surveyed and their location and condition added to the Town Engineer’s GIS database and mapping (March 2007)
(07.1)Outfall map generated	68% of outfalls in the town (405 of <i>approx</i> 600) have been mapped. Outfalls where mapped in the Fallkill, Wappinger, & Hudson watersheds (MARCH 2006) Approximately 195 outfalls remain to be mapped in the Casperkill watershed, which is planned to be conducted by DCSWCD staff (JAN 2008).
Field verification of outfall locations	<p>(YEAR 2) 230 Wappingers watershed outfalls verified by town engineer (8/2005)</p> <p>(YEAR 3) Fallkill outfalls (approx 65) verified by town engineer (MARCH 2006); Hudson outfalls (approx 110) verified by town engineer (OCT 2005).</p> <p>(YEAR 5) Approximately 195 outfalls remain to be mapped in the Casperkill watershed, which is planned to be conducted by DCSWCD staff (JAN 2008).</p>
mapping all inter-municipal subsurface conveyances	(YEAR 5) Mapping of Town of Poughkeepsie inter-municipal subsurface conveyances by DCSWCD staff (JAN 2008)

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delineating storm sewershed	<p>(YEAR 3) Wappinger, Falkill & Hudson watersheds delineated by town engineer (MARCH 2006)</p> <p>(YEAR 4) Casperkill watershed delineated by town engineer (May 2006)</p> <p>(YEAR 5)Casperkill delineation by town engineer will be revised based on mapping provided by DCSWCD (JAN 2008)</p>
developing and retaining MS4 mapping	<p>(YEAR 3) Wappinger, Falkill & Hudson watershed GIS mapping established by town engineer</p> <p>(YEAR 5) Approximately 195 outfalls remain to be mapped in the Casperkill watershed, which is planned to be conducted by DCSWCD staff (JAN 2008).</p>

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Minimum Control Measure 3. Illicit Discharge Detection and Elimination (IDDE) Regulatory Mechanism

Permit Reference IV.C.3.c: Prohibit, through an ordinance, local law or other regulatory mechanism, illicit discharges into the MS4. The MS4s have until year 5 to complete the local law work. See the instructions for information about completing this section.	
Does the MS4 have the legal authority to enact ordinances, local laws or other regulatory mechanisms?	<input type="checkbox"/> No (go to ADDENDUM 1) <input checked="" type="checkbox"/> Yes (complete questions below)
Assessment of Regulatory Mechanism (Local Code)	
1) When was this assessment completed or planned to be completed?	Date completed: <input type="checkbox"/> March 2005 _____ <input type="checkbox"/> Not yet completed (proceed to next table) Plan to complete for reporting in year: <input type="checkbox"/> 4; <input type="checkbox"/> 5.
2) Is there an existing ordinance, local law or other regulatory mechanism?	<input type="checkbox"/> No (go to question 5) <input checked="" type="checkbox"/> Yes
3) Does the existing regulatory mechanism prohibit illicit discharges as required by the MS4 Permit?	<input type="checkbox"/> No (amendments needed) <input checked="" type="checkbox"/> Yes
4) Does the existing regulatory mechanism include enforcement authorities and procedures as required by the MS4 Permit?	<input type="checkbox"/> No (amendments needed) <input checked="" type="checkbox"/> Yes
Development of Regulatory Mechanism (Local Codes)	
5) When was this work completed or planned to be completed?	Date completed: <input type="checkbox"/> MAY 2005 _____ <input type="checkbox"/> Not yet completed (proceed to next table) Plan to complete work below for reporting in year: <input type="checkbox"/> 4; <input type="checkbox"/> 5.
6) If you answered 'No' to question 1, 2 or 3, what regulatory mechanism or amendments will be adopted to meet the MS4 permit requirements?	<input type="checkbox"/> NYS IDDE Model Law in its entirety <input type="checkbox"/> Selected NYS IDDE Model Law articles adopted as amendments to existing code(s) that are equivalent to the NYS IDDE Model Law <input type="checkbox"/> MS4 will write language equivalent to NYS IDDE Model Law
7) If you answered 'No' to question 1, 2 or 3, has a list of needed changes to local codes been developed for adoption of the regulatory mechanism?	<input type="checkbox"/> No <input type="checkbox"/> Yes, list the local code(s) that will be changed: None existed prior to be changed. NYS model adopted in entirety
8) If the existing regulatory mechanism does not require amendments, what language is in the mechanism?	<input checked="" type="checkbox"/> NYS IDDE Model Law in its entirety <input type="checkbox"/> Selected NYS IDDE Model Law articles adopted as amendments to existing code(s) that are equivalent to the NYS IDDE Model Law <input type="checkbox"/> Language equivalent to NYS IDDE Model Law
9) What was the date or is the planned date of local law adoption?	Date: May 18, 2005 AS ITEM 05:18-02
10) Provide a web address if adopted local law can be found on a web site.	Web Address: http://www.townofpoughkeepsie.com/

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Minimum Control Measure 3. Illicit Discharge Detection and Elimination (IDDE)

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.3.e: Inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste.</p> <ul style="list-style-type: none"> • <i>Explain activities and materials used to meet this requirement this year <u>and</u> planned for next year</i> • <i>Identify personnel or outside organization conducting activities</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>(06.5) Outreach to employees, businesses and public on hazards associated with illicit discharges</p>	<p>(YEAR 5) Stormwater Pollution Prevention workshop by DCSWCD attended by town Recreation Department staff (APRIL 2007)</p> <p>Educational brochures targeting proper waste disposal, household hazardous wastes, pesticide application & illegal discharges available to the public at town hall (MAY 2007)</p> <p>Educational brochure for local businesses targeting proper waste disposal, good housekeeping, hazards of illegal discharges to be generated and distributed to local businesses (JAN 2008)</p>
<p>Staff training to identify illegal discharges and connections as well as pollution prevention training including proper disposal of wastes and record keeping</p>	<p>(YEAR 3) DCSWCD in house training of Highway Department staff to identify illegal discharges and establish reporting procedure. Facilities toured by DCSWCD staff, highway superintendent and SWMP coordinator; no potential illicit discharge risks identified (2/7/2006)</p> <p>(YEAR 4) SMP Coordinator and Public Contact continued to monitor and recommend participation in county wide education and outreach programs though the DCSWCD</p> <p>(YEAR 5) SMP Coordinator and Public Contact will continue to monitor and recommend participation in county wide education and outreach programs though the DCSWCD</p>
<p>Priority facilities at risk for potential to create illicit discharges identified</p>	<p>(YEAR 2) Town Highway Department identified as priority risk for potential illicit discharges or improperly disposed waste.</p>

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Additional Techniques	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
(SC.3) Effectiveness of BMP's evaluated	
DCSWCD MS4 Assistance Activities	<p>(YEAR 2) See Schedule A, Year 2 Annual Report (YEAR 3) See Appendix A Year 3 Annual Report (YEAR 4) See Schedule A, Year 4 Annual Report</p> <p>(YEAR 5) SWMP coordinator and public contact will continue to attend DCSWCD monthly coordination meetings</p>
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:</p> <p>(YEAR 3) No changes. (Year 4) Annual Report revised to address criteria established in July 2006 "Critical Path to Compliance" (Year 4) SWMP modified to address 02/08/2007 review comments on Year 3 (2005-2006) Annual Report. SC4 and SC5 have been addressed as part of the Annual Report. Outreach and education of the public and businesses is addressed in the SWMP and will be conducted by 2008.</p>	

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Minimum Control Measure 4 and 5. Construction Site and Post-Construction Stormwater Runoff Control Regulatory Mechanism

Permit Reference IV.C.4.b.i, 5.a.i: Require development and implementation of erosion and sedimentation controls through a local law or other regulatory mechanism. Report on assessment process used (*Stormwater Management Gap Analysis Workbook for Local Officials* or equivalent process). The MS4s have until year 5 to complete the local law work. **See the instructions for information about completing this section.**

Does the MS4 have the legal authority to enact land use ordinances, local laws or other regulatory mechanisms?	<input type="checkbox"/> No (go to ADDENDUM 2) <input checked="" type="checkbox"/> Yes (complete questions below)
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Preliminary Assessment of Regulatory Mechanism (Local Code)

1. When was the preliminary assessment of existing local codes completed or when will it be completed?	Date completed: _____ <input type="checkbox"/> Not yet completed (proceed to next table) Plan to complete for reporting in year: <input type="checkbox"/> 4; <input type="checkbox"/> 5. <input checked="" type="checkbox"/> Did not do preliminary assessment; proceeded directly to Gap Analysis Worksheets 1-4 or adopted <i>Sample Local Law for Stormwater Management and Erosion & Sediment Control</i> (Sample Local Law).
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2. If preliminary assessment was completed, indicate the results.	<input checked="" type="checkbox"/> If none of Sample Local Law provisions appear in local code; consider adopting Sample Local Law or equivalent <input type="checkbox"/> If few Sample Local Law provisions appear in local code; major revisions needed or consider adopting Sample Local Law or equivalent <input type="checkbox"/> If most of the Sample Local Law provisions appear in local code; minor revisions needed
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Assessment and Development of Regulatory Mechanism (Local Code) (continued on next page)

3. When was the Gap Analysis or equivalent process completed or when will it be completed?	Date completed: <input type="checkbox"/> March 2005 _____ <input type="checkbox"/> Not yet completed (proceed to next table) Plan to complete work below for reporting in year: <input type="checkbox"/> 4; <input type="checkbox"/> 5.
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4. How was / will the local code adopted*? <i>*If MS4 has some existing local code equivalent to the Sample Local Law and adopted parts of the Sample Local Law as amendments to make a complete local code, check b and c.</i>	a. <input checked="" type="checkbox"/> The entire Sample Local Law adopted as amendments to existing code or as stand alone law. <ul style="list-style-type: none"> • If no portions of the Sample Local Law were moved or deleted, all provisions would be exactly the same as the Sample Local Law. • If ANY provisions of the Sample Local Law were moved or deleted, the moved or changed provisions must be reviewed (use the <i>Gap Analysis</i> or equivalent process) to ensure the intent of the law has not been changed. b. <input type="checkbox"/> Parts of NYS Sample Local Law adopted as amendments to existing code. c. <input type="checkbox"/> Language developed by municipality was demonstrated to be equivalent.
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Minimum Control Measure 4 and 5. Construction Site and Post-Construction Stormwater Runoff Control Regulatory Mechanism

Permit Reference IV.C.4.b.i, 5.a.i (continued)

Assessment and Development of Regulatory Mechanism (Local Code) (continued)

5. Answer the following questions about the Gap Analysis or equivalent processes.

Provisions are defined as: All the Sample Local Law sections or subsections in the Gap Analysis Worksheets 1-4 that have a box in the “Equivalence” column, meaning that there is an associated “Equivalence” sheet (with the exception of Article 6, Section 4 which does not have an Equivalence sheet).

Total number of provisions in each worksheet: Sample Local Law Article 1 (Gap Analysis Worksheet 1) - 8 provisions; Sample Local Law Article 2 (Gap Analysis Worksheet 2) - 51 provisions; Sample Local Law Article 3, 4, 5 (Gap Analysis Worksheet 3) - 3 provisions; Sample Local Law Article 6 (Gap Analysis Worksheet 4) - 9 provisions.

MS4s that adopt the entire Sample Local Law as amendments to existing code or as stand alone law need to indicate the number of provisions being adopted that are exactly the same as the Sample Local Law, or equivalent, in the right-hand column below.

Sample Local Law Articles	NUMBER OF REQUIRED PROVISIONS IN LOCAL LAW		
	Existing provisions exactly the same as the Sample Local Law language	Existing provisions equivalent to the Sample Local Law language (see Gap Analysis Workbook Equivalence Sheets for information to help determine equivalence)	Sample Local Law or equivalent language to be adopted , listed as legislative agenda items.
1			Adopted as item 05:18-03 (8 provisions)
2			Adopted as item 05:18-03 (51 provisions)
3, 4, 5			Adopted as item 05:18-03 (3 provisions)
6			Adopted as item 05:18-03 (9 provisions)
TOTAL			Adopted as item 05:18-03 (71 provisions)
6. Has a list of needed changes (legislative agenda) been developed for adoption of amendments to local codes (or for deletion of existing codes that are addressed by adoption of a stand alone law)?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, list the local codes that will be changed: SUBDIVISION CODE SECTION 177-19; SUBDIVISION CODE SECTION 177-20; SITE PLAN REVIEW SECTION 210-139; EROSION AND SEDIMENT CONTROL SECTION 97-9		
7. What was the date or is planned date of local code adoption?	Date: May 18, 2005		
8. Provide a web address if the adopted local law can be found on a web site.	Web Address: http://www.townofpoughkeepsie.com/		

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Minimum Control Measure 4. Construction Site Stormwater Runoff Control

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.4.b. v: Develop and implement procedures for site plan review by the MS4 that incorporate consideration of potential water quality impacts and review individual pre-construction site plans to ensure consistency with local sediment and erosion control requirements.</p> <ul style="list-style-type: none"> Describe the procedures below. <u>Revise as procedures are updated.</u> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <ul style="list-style-type: none"> Example measurable goals: number of plans received; number of plans reviewed; percent of plans received that are reviewed.
<p>The Planning Board considers water quality impacts and sediment and erosion control plans contained in Stormwater Pollution Prevention Plans (SWPPP's) as part of the review of site and subdivision plan applications. Review comments on the compliance of a project's SWPPP with local and State requirements are provided to the board by a licensed engineer.</p>	<p>(YEAR 2) The planning board required 15/15 site & subdivision plan applications to provide SWPPP's and reviewed all of them.</p> <p>(YEAR 3) The planning board received 44 subdivision & site plan applications, of which 8 required SWPPP's including sediment and erosion control components. All 8 of those SWPPP's were reviewed as part of the subdivision review process</p> <p>(YEAR 4) The planning board received 13 subdivision & site plan applications, of which 13 required SWPPP's including sediment and erosion control components. All 13 of those SWPPP's were reviewed as part of the subdivision review process</p> <p>(YEAR 5) The planning board will continue to require SWPPP's as necessary and review SWPPP's submitted as part of the site & subdivision plan applications review process</p>
<p>Permit Reference IV.C.4.b. vi: Develop and implement procedures for the receipt and consideration of information submitted by the public.</p> <ul style="list-style-type: none"> Explain the procedures below. <u>Revise as procedures are updated.</u> Identify the responsible personnel or outside organizations. 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>The planning board holds public hearings during review of submitted site plan and subdivision applications and allows public comment in person and in writing</p>	<p>(YEAR 3) The planning board accepted public comment at bimonthly meetings including 15 public hearings during the review of 44 site plan and subdivision plan applications</p> <p>(YEAR 4) The planning board accepted public comment at bimonthly meetings including 46 public hearings during the review of 100 site plan and subdivision plan submissions</p> <p>(YEAR 5) The planning board will continue to hold public hearings</p>

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	and accept public comment during the review of subdivision and site plan applications.
Stormwater Contact Person Responds to public comments & questions during the review process.	(YEAR 3) Stormwater contact person provided written response to 22 communications from members of the public. (YEAR 4) Stormwater contact person provided written response to 55 communications from members of the public. (YEAR 5) Stormwater contact Person will continue to respond to public comments.

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Minimum Control Measure 4. Construction Site Stormwater Runoff Control

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.4.b. iii, vii: Develop and implement procedures for site inspections, enforcement of control measures and sanctions to ensure compliance with GP-02-02.</p> <ul style="list-style-type: none"> Describe each procedure below. <u>Revise as procedures are updated.</u> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <ul style="list-style-type: none"> Example measurable goals are number of: inspections; fines assessed; stop work orders; other sanctions.
(SC.1)Address 303(d)/TMDL discharges	Construction Site Inspection priority identified in 303d/TMDL watersheds (March 2007)
(SC.2)Address priority pollutants/audiences/areas of concern	<p>Construction Site compliance inspection priority in the Wappinger watershed to identify erosion and sediment control (MARCH 2007)</p> <p>Construction Site compliance inspection priority in the Fallkill watershed to identify erosion and sediment control (MARCH 2007)</p>
<p>The Town Engineers office performs regular inspections of active construction sites in the town and makes recommendations to contractors to ensure compliance with GP-02-02. If necessary, a stop work order can be issued by the building dept until appropriate corrections are made to conform with the requirements of GP-02-02 Additional enforcement and sanctions are provided matching the DEC model law which was adopted May 18, 2005</p>	<p>(YEAR 2) 16/16 active construction sites inspected; 8 contractors notified of violation of SWPPP and corrective action was made</p> <p>(YEAR 3) 16/16 active construction sites inspected; 10 contractors made changes to be compliant when notified of violations; 3 stop work orders issued</p> <p>(YEAR 4) 13 active construction sites inspected; 11 contractors made changes to be compliant when notified of violations; 1 stop work orders issued</p> <p>(YEAR 5) 100% of active construction sites will be regularly inspected for compliance and enforcement action taken as necessary</p>
<p>Permit Reference IV.C.4.b. viii: Educate and train construction site operators about requirements to develop and implement a SWPPP and any other requirements they must meet within the MS4s jurisdiction.</p> <ul style="list-style-type: none"> Explain the activities and materials used to meet this requirement. Identify the personnel or outside organization conducting this activity. Indicate activities planned for next year. 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
Contractors/Professionals/Municipal Employees & other interested parties informed of DCSWCD stormwater training seminars & workshops by SWMP Coordinator & Public Contact	40 contractors/ professionals/ municipal employees invited to DCSWCD Erosion control Workshop February 14, 2005; 29 attended as well as members of the Town CAC

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	<p>(YEAR 4) Phase 2 construction requirements brochures available at Building, Planning, and Tax Department (March 2007)</p> <p>(Year 5) SWMPC & SMWPPC will continue to invite Contractors/Professionals/Municipal Employees & other interested parties to educational workshops. (Ongoing)</p>
Additional Techniques	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
(SC.3) Effectiveness of BMP's evaluated	The SWMP coordinator meets with the building, zoning, legal & engineering department to evaluate the effectiveness of current procedures, policies and activities.
(07.1) Local Law adopted	Adopted May 18, 2005
(08.1) Local Law fully implemented	The town plans to have completely implemented the required components by January 1 2008.
DCSWCD MS4 Assistance Activities	<p>(YEAR 2) See Schedule A, Year 2 Annual Report (YEAR 3) See Appendix A Year 3 Annual Report (YEAR 4) See Appendix A Year 4 Annual Report</p> <p>(YEAR 5) SWMP coordinator and public contact will continue to attend DCSWCD monthly coordination meetings</p>
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change: (YEAR 3) No Changes (Year 4) Annual Report revised to address criteria established in July 2006 "Critical Path to Compliance"</p>	

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Minimum Control Measure 5. Post-Construction Stormwater Management

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

Permit Reference IV.C.5.a, c. Develop and implement a post-construction stormwater management program that addresses stormwater runoff from new development and redevelopment and will reduce the discharge of pollutants to the MEP. Program requirements should include:	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
<ul style="list-style-type: none"> • A combination of structural and/or non-structural management practices. • <i>Identify and describe below procedures to ensure installation of post-construction management practices. <u>Revise as procedures are updated.</u></i> 	DO NOT ENTER INFORMATION IN THIS CELL
All applicants are required to provide “As-built” plans for stormwater management practices to the Town Engineers office at the completion of construction activities	(YEAR 3) 4 “As-built” plans accepted by Town engineer’s office for approval of completed construction activities. (YEAR 4) 3 “As-built” plans accepted by Town engineer’s office for approval of completed construction activities. (YEAR 5) “As-built” plans will continue to be required at the completion of stormwater construction activities
<ul style="list-style-type: none"> • Procedures for site plan and SWPPP review to ensure SWMPs meet state standards. • <i>Describe procedures below. <u>Revise as procedures are updated.</u></i> 	<ul style="list-style-type: none"> • <i>Example measurable goals include: number of plans received; number of plans reviewed; percent of plans received that are reviewed.</i>
The Planning Board considers post construction control plans contained in Stormwater Pollution Prevention Plans (SWPPP’s) as part of the review of site and subdivision plan applications. Review comments on the compliance of a project’s SWPPP with local and State requirements are provided to the board by a licensed engineer.	(YEAR 2) The planning board required 15/15 site & subdivision plan applications to provide SWPPP’s and reviewed all of them. (YEAR 3) The planning board received 44 subdivision & site plan applications, of which 7 required SWPPP’s including post construction control components. All 7 of those plans were reviewed as part of the subdivision review process (YEAR 4) The planning board received 13 subdivision & site plan applications, of which 9 required SWPPP’s including post construction control components. All 9 of those plans were reviewed as part of the subdivision review process (YEAR 5) The planning board will continue to require SWPPP’s as necessary and review SWPPP’s submitted as part of the site & subdivision plan applications review process

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Minimum Control Measure 5. Post-Construction Stormwater Management

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

Permit Reference IV.C.5.a, c. (continued): Develop and implement a post-construction stormwater management program that addresses stormwater runoff from new development and redevelopment and will reduce the discharge of pollutants to the MEP. Program requirements should include:	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
<ul style="list-style-type: none"> Procedures for inspection and maintenance of post-construction management practices. <i>Explain procedures below. <u>Revise as procedures are updated.</u></i> 	<ul style="list-style-type: none"> <i>Example measurable goals are number of: inspections maintenance activities performed.</i>
(08.2) Long term O&M plans in place	(YEAR 4) Draft Long term O&M plan for publicly and privately owned Stormwater Management Practices prepared (FEB 2007) (YEAR 5) Long term O&M plan to be finalized (JAN 2008)
Town Engineer’s office responsible for inspection of post construction management practices	(YEAR 4) Draft Long term O&M plan for publicly and privately owned Stormwater Management Practices prepared including schedule for inspection and maintenance of practices (FEB 2007) (YEAR 5) Long term O&M plan for publicly and privately owned Stormwater Management Practices to be finalized (JAN 2008)
Post construction Maintenance of Stormwater Practices performed by Highway Department or contracted out as necessary	(YEAR 4) Draft Long term O&M plan for publicly and privately owned Stormwater Management Practices prepared including schedule for inspection and maintenance of practices (FEB 2007) (YEAR 5) Long term O&M plan for publicly and privately owned Stormwater Management Practices to be finalized (JAN 2008)
<ul style="list-style-type: none"> Procedures for enforcement and penalization of violators. <i>Explain procedures below. <u>Revise as procedures are updated.</u></i> 	<ul style="list-style-type: none"> <i>Example measurable goals: number enforcement activities performed.</i>
Enforcement procedures for violations provided by Stormwater Control Ordinance include the issuance of a stop work order and levying of fines upon responsible parties as well as the withholding of certificates of occupancy and the transfer of any restoration costs incurred by the town to a lien upon the project property.	(YEAR 3) No Post construction stormwater management practice control enforcement actions required (YEAR 4) No Post construction stormwater management practice control enforcement actions required (YEAR 5) Post construction control requirements will continue to be enforced and action taken as needed
(06.4) Procedure for enforcement and penalization of violators	Procedure for enforcement and penalization of violators established by Stormwater local Law, adopted from the NYSDEC Model Law (MAY 2005)

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Minimum Control Measure 5. Post-Construction Stormwater Management

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

Permit Reference IV.C.5.a, c. (continued): Develop and implement a post-construction stormwater management program that addresses stormwater runoff from new development and redevelopment and will reduce the discharge of pollutants to the MEP. Program requirements should include:	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
<ul style="list-style-type: none"> • Adequate resources for a program to inspect new and re-development sites and for enforcement and penalization of violators. • <i>Describe resources below. Update annually.</i> 	DO NOT ENTER INFORMATION IN THIS CELL
Construction completion and Maintenance Guarantees established to provide funding resources for post construction inspections and maintenance of privately owned and maintained stormwater management practices	(YEAR 4) Construction completion and maintenance guarantees of privately owned post construction stormwater management practices required as a condition of approval of plans. (March 2007)
Fees collected for inspection and maintenance of public owned or maintained stormwater management practices	(YEAR 3) Fees are collected as part of the Town wide Drainage District. (YEAR 4) Fees are collected as part of the Town wide Drainage District. (YEAR 5) Fees will continue to be collected through the Town wide Drainage District
Additional Techniques	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
(SC.3) Effectiveness of BMP's evaluated	The SWMP coordinator meets annually with the town building, zoning, legal, highway & engineering departments to assess the effectiveness of actions and policies related to Post construction maintenance and enforcement.
(08.1) Post construction requirements fully implemented	The town plans to have completely implemented the required components by January 1 2008.
Program management	(YEAR 4) Draft Post Construction component of SWMP document prepared (MARCH 2007) (YEAR 5)Post Construction component of SWMP document finalized (JAN 2008)

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DCSWCD MS4 Assistance Activities	(YEAR 2) See Schedule A, Year 2 Annual Report (YEAR 3) See Appendix A Year 3 Annual Report (YEAR 4) See Appendix A Year 4 Annual Report (YEAR 5). SWMP coordinator and public contact will continue to attend DCSWCD monthly coordination meetings
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Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:
(YEAR 3) No changes.
(Year 4) Annual Report revised to address criteria established in July 2006 "Critical Path to Compliance"
(Year 4) Annual Report revised to address 02/08/2007 review comments on Year 3 (2005-2006) Annual Report. The procedure for Enforcement and penalization of violators has been clarified.

Minimum Control Measure 6. Pollution Prevention/Good Housekeeping for Municipal Operations

OVERALL MUNICIPAL POLLUTION PREVENTION / GOOD HOUSEKEEPING PROGRAM INFORMATION

<ul style="list-style-type: none"> • This table is for MS4s to report on their OVERALL Municipal Pollution Prevention / Good Housekeeping Program. • A separate table follows that is for MS4s to report on management practices performed in identified municipal operations. • Refer to the Municipal Pollution Prevention / Good Housekeeping Assistance document for example best management practices, policies and procedures. • Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed. 	
Permit Reference IV.C.6.a: Develop and implement an operation and maintenance program to reduce and prevent pollutant discharges from municipal operations to the MEP.	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
<ul style="list-style-type: none"> • <i>List pollutants that will be addressed by the municipal pollution prevention program.</i> 	
Phosphorus and Sediment	
<ul style="list-style-type: none"> • <i>Set and describe pollution prevention priorities by geographic areas, municipal operation type, and facilities.</i> 	DO NOT ENTER INFORMATION IN THIS CELL
Sediment pollution prevention priority	(YEAR 3) Street maintenance, winter road maintenance & stormwater system maintenance given priority in Wappinger watershed targeted to reduce sediment transport (MARCH 2006)
Phosphorus pollution prevention priority	(YEAR 3) Stormwater system maintenance given priority in Wappinger and Fallkill watersheds targeted to reduce phosphorus transport (MARCH 2006)
Hazardous waste storage & disposal, spill prevention and response waste disposal & recycling priority	(YEAR 3) Vehicle and fleet maintenance, municipal building maintenance and solid waste management to target hazardous waste storage/disposal, spill prevention and response and waste disposal/recycling at town highway garage (MARCH 2006) (YEAR 4) Vehicle and fleet maintenance, municipal building maintenance and solid waste management to target hazardous waste storage/disposal, spill prevention and response and waste disposal/recycling at municipal fleet maintenance facility (March 2007)

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Permit Reference IV.C.6.a: Include a municipal pollution prevention training component for staff (where all staff are trained). <ul style="list-style-type: none"> • <i>Explain activities and materials used to meet this requirement.</i> • <i>Identify training needs and design training components</i> • <i>Determine the adequacy and appropriate frequency of staff training.</i> • <i>Identify personnel or outside organization conducting activities.</i> 	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
Staff training to identify illegal discharges and connections as well as pollution prevention training including proper disposal of wastes and record keeping	<p>(YEAR 3) DCSWCD in house training of Highway Department staff to establish waste disposal and record keeping procedure. Facilities toured by DCSWCD staff, highway superintendent and SWMP coordinator; no potential risks from waste disposal or fleet maintenance operations at highway garage facility identified (2/7/2006)</p> <p>(YEAR 5) Stormwater Pollution Prevention workshop by DCSWCD attended by town Recreation Department staff (APRIL 2007)</p> <p>“Good Housekeeping Manual” targeting Municipal Operations including waste disposal, chemical storage, record keeping, facility inventories. staff training prepared by DCSWCD used by Highway department, Auto Center, Building & Recreation staff. (MARCH 2007)</p>
(07.1) Planning to meet training needs underway	(YEAR 5) Stormwater Pollution Prevention workshop by DCSWCD attended by town Recreation Department staff (APRIL 2007)
Additional Techniques	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
Evaluation of effectiveness of Phase II BMP’s	<p>(YEAR 3) No ineffective BMP’s identified (YEAR 4) No ineffective BMP’s identified</p> <p>(YEAR 5) The SMP coordinator will meet annually with the Highway, building, recreation & Auto Center departments to evaluate the effectiveness of BMP’s</p>
(08.1) Full implementation of pollution prevention program	The town plans to have completely implemented the required components by January 1 2008.

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DCSWCD MS4 Assistance Activities	(YEAR 2) See Schedule A, Year 2 Annual Report (YEAR 3) See Appendix A, Year 2 Annual Report (YEAR 4) See Appendix A, Year 4 Annual Report (YEAR 5) SWMP coordinator and public contact will continue to attend DCSWCD monthly coordination meetings
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Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:
 (YEAR 3) Added annual evaluation of effectiveness of BMP's. Guidance on evaluation procedures should be identified by the permitting authority.
 (Year 4) Annual Report revised to address criteria established in July 2006 "Critical Path to Compliance"

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Minimum Control Measure 6. Municipal Operations: Street and Bridge Maintenance; Winter Road Maintenance;
 Stormwater System Maintenance; Vehicle and Fleet Maintenance; Park and Open Space Maintenance; Municipal Building Maintenance;
 Solid Waste Management; Other: _____

<ul style="list-style-type: none"> • Copy this page and give it to each municipal office or department responsible for reporting. • Put an 'X' in front of each municipal operation type addressed by the Municipal Pollution Prevention/Good Housekeeping Program in that office or department. • Refer to the Municipal Pollution Prevention / Good Housekeeping Assistance document for example best management practices, policies and procedures. • Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed. • 	
<p>Permit Reference IV.C.6.a, c: Develop and implement an operation and maintenance program to reduce and prevent pollutant discharges from the municipal operation(s) indicated above to the MEP.</p> <ul style="list-style-type: none"> • <i>Describe how the bulleted items below focus on pollutants addressed by the municipal pollution prevention program and the pollution prevention priorities.</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<ul style="list-style-type: none"> • <i>Briefly describe or reference any existing policies and procedures</i> • <i>Briefly describe or reference any policies and procedures being developed</i> 	<p>DO NOT ENTER INFORMATION IN THIS CELL</p>
<p>Street and Bridge Maintenance Policies</p>	<p>(YEAR 3) Priority Established for Street Sweeping in Wappinger Watershed with all roads being swept annually</p> <p>(YEAR 4) Draft "Town of Poughkeepsie Highway Department Operations and Maintenance Plan" prepared to address existing Street and Bridge Maintenance Policies (January 2007)</p>
<p>Winter Road Maintenance Policies</p>	<p>(YEAR 3) Deicing materials stored in contained facility and operations conducted to minimize salt spills; vehicles regularly inspected and maintained; vehicle washing conducted in controlled areas draining to Wastewater treatment facility</p> <p>(YEAR 4) Draft "Town of Poughkeepsie Highway Department Operations and Maintenance Plan" prepared to address existing Winter Road Maintenance Policies (January 2007)</p>

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Stormwater System Maintenance Policies	<p>(YEAR 3) Priority established for portions of the system within Wappinger watershed; system components to be inspected and record kept during cleanout; maintenance, repair and cleanout to be conducted by highway dept or contracted out as needed</p> <p>(YEAR 4) Draft “Town of Poughkeepsie Highway Department Operations and Maintenance Plan” prepared to address existing Stormwater System Maintenance Policies (January 2007)</p>
Vehicle and Fleet Maintenance Policies	<p>(YEAR 3) Vehicle washing to be conducted in controlled areas draining to Wastewater treatment facility, waste oil to be burned in furnace; hazardous materials to be stored as per standard, spills prevention and response training conducted</p> <p>(YEAR 4) Draft “Town of Poughkeepsie Highway Department Operations and Maintenance Plan” prepared to address existing Vehicle and Fleet Maintenance Policies (January 2007)</p>
Park and open Space Maintenance Policies	<p>(Year 4) Pesticide/Herbicide not applied during regular (varies by season) landscaping of Town Parks, grass maintained at 2.5 inches except on sporting fields (2.0 inches); leaves, limbs and debris properly disposed of on a weekly basis (ONGOING).</p> <p>(Year 4)Existing Policies detailed in Special Conditions of work agreements.</p>
Municipal Building Maintenance Policies	<p>(YEAR 3)Spill prevention and response training to be conducted; hazardous material storage as per standards</p> <p>(YEAR 4) Draft “Town of Poughkeepsie Highway Department Operations and Maintenance Plan” prepared to address existing Municipal Building Maintenance Policies (January 2007)</p>

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<p>Solid Waste Management Policies</p>	<p>(YEAR 3) Bulk waste collected multiple times a year; hazardous waste accepted by Dutchess County Resource Recovery on a monthly basis; waste recycling conducted by DCRR as well</p> <p>(YEAR 4) Draft “Town of Poughkeepsie Highway Department Operations and Maintenance Plan” prepared to address existing Solid Waste Management Policies (January 2007)</p>
<ul style="list-style-type: none"> • <i>Briefly describe or reference any existing best management practices</i> • <i>Briefly describe or reference any planned best management practices</i> 	<p style="text-align: center;">DO NOT ENTER INFORMATION IN THIS CELL</p>
<p>Catch basin cleaning</p>	<p>(YEAR 2) Town Highway Superintendent oversaw removal of sediment from all catch basins in the Fallkill and Wappinger’s watersheds (approximately 945 catch basins).</p> <p>(YEAR 3) Town Highway Superintendent oversaw removal of sediment from all catch basins in the Wappinger’s watershed (approximately 1,421 catch basins).</p> <p>(YEAR 4) Town Highway Superintendent oversaw removal of sediment from 50% catch basins in the Fallkill watershed (approximately 200 catch basins). (April, 2006)</p> <p>(YEAR 5) Town Highway Superintendent will continue to regularly remove sediment from catch basins.</p>
<p>Street sweeping</p>	<p>(YEAR 2) Town Highway Superintendent oversaw sweeping of 140 miles of town roads</p> <p>(YEAR 3) Town Highway Superintendent oversaw sweeping of 140 miles of town roads</p> <p>(YEAR 4) Town Highway Superintendent oversaw sweeping of 140 miles of town roads</p> <p>(YEAR 5) Town Highway Superintendent will continue to oversee the sweeping of all town roads annually.</p>

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De-icing Material Storage Structures	(YEAR 4) Construction of a 6,000 ton salt shed on Tucker Drive is anticipated by the highway department
De-icing Applicators testing/calibration/maintenance	<p>(YEAR 3) All 17 vehicle's components where inspected and calibrated prior to the cold season.</p> <p>(YEAR 4) All 17 vehicle's components where inspected and calibrated prior to the cold season.</p> <p>(YEAR 5) All vehicles will be inspected and calibrated annually prior to the cold season</p>
Chemical recycling	Hazardous waste chemicals are accepted by Dutchess County Resource Recovery on a monthly basis (Ongoing)
Hazardous material collections	Hazardous wastes are accepted by Dutchess County Resource Recovery on a monthly basis (Ongoing)
Waste Recycling & Pickup	<p>Waste Recycling and collection conducted by Dutchess County Resource recovery on a regular basis (Ongoing)</p> <p>(YEAR 3) April –September bi-weekly bulk waste collection at highway garage received 98 tons of waste</p> <p>(YEAR 4) April –September bi-weekly bulk waste collection at highway garage received 56 tons of waste</p> <p>(YEAR 5) Bulk waste will be accepted by the highway department bi-weekly from April-September</p>
Road Ditch Maintenance	Highway Department participating in County Wide funding application for municipal ditch rehabilitation/repair projects schedule and scope to be determined

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• <i>Identify and describe the equipment and staff that are in place</i>	DO NOT ENTER INFORMATION IN THIS CELL
Highway Department Staff	(YEAR 3) 25 Staff employees performing maintenance (YEAR 4) 26 Staff employees performing maintenance
Highway Department Equipment	(YEAR 3) 17 winter road maintenance vehicles; 1 vac-truck (YEAR 4) 3 vehicles traded in and 6 new trucks where purchased for winter road maintenance

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Minimum Control Measure 6. Municipal Operations: Street and Bridge Maintenance; Winter Road Maintenance;
 Stormwater System Maintenance; Vehicle and Fleet Maintenance; Park and Open Space Maintenance; Municipal Building Maintenance;
 Solid Waste Management; Other: _____

<ul style="list-style-type: none"> • Copy this page and give it to each municipal office or department responsible for reporting. • Put an 'X' in front of each municipal operation type addressed by the Municipal Pollution Prevention/Good Housekeeping Program in that office or department. • Refer to the Municipal Pollution Prevention / Good Housekeeping Assistance document for example best management practices, policies and procedures. • Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed. 	
<p>Permit Reference IV.C.6.a, c (continued): Develop and implement an operation and maintenance program to reduce and prevent pollutant discharges from municipal operations to the MEP.</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<ul style="list-style-type: none"> • <i>Assess if existing programs adequately reduce and/or prevent pollutant discharges</i> • <i>Determine and list any operation type, location or facility that is in need of modification or updates.</i> • 	<p>DO NOT ENTER INFORMATION IN THIS CELL</p>
<p>Street and Bridge Maintenance Assessment</p>	<p>Status of Policies & Procedures, Staff, and Equipment assessed (April 2005)</p> <p>(YEAR 4) "Pollution Prevention and Good Housekeeping for Municipal Operations" prepared by DCSWCD and utilized to address reduction of pollutants (MARCH 2007)</p>
<p>Winter Road Maintenance Assessment</p>	<p>Status of Policies & Procedures, Staff, and Equipment assessed (April 2005)</p> <p>(YEAR 4) "Pollution Prevention and Good Housekeeping for Municipal Operations" prepared by DCSWCD and utilized to address reduction of pollutants (MARCH 2007)</p>
<p>Stormwater System Maintenance Assessment</p>	<p>Status of Policies & Procedures, Staff, and Equipment assessed (April 2005)</p>

PLEASE PROVIDE COMMENT TO: ehollman@TownofPoughkeepsie-ny.gov

	(YEAR 4) “Pollution Prevention and Good Housekeeping for Municipal Operations” prepared by DCSWCD and utilized to address reduction of pollutants (MARCH 2007)
Vehicle and Fleet Maintenance Assessment	Status of Policies & Procedures, Staff, and Equipment assessed (April 2005) (YEAR 4) “Pollution Prevention and Good Housekeeping for Municipal Operations” prepared by DCSWCD and utilized to address reduction of pollutants (MARCH 2007)
Park and open Space Maintenance Assessment	(YEAR 4) “Pollution Prevention and Good Housekeeping for Municipal Operations” prepared by DCSWCD and utilized to address reduction of pollutants (MARCH 2007)
Municipal Building Maintenance Assessment	Status of Policies & Procedures, Staff, and Equipment assessed (April 2005) (YEAR 4) “Pollution Prevention and Good Housekeeping for Municipal Operations” prepared by DCSWCD and utilized to address reduction of pollutants (MARCH 2007)
Solid Waste Management Assessment	Status of Policies & Procedures, Staff, and Equipment assessed (April 2005) (YEAR 4) “Pollution Prevention and Good Housekeeping for Municipal Operations” prepared by DCSWCD and utilized to address reduction of pollutants (MARCH 2007)

PLEASE PROVIDE COMMENT TO: ehollman@TownofPoughkeepsie-ny.gov

<p>Permit Reference IV.C.6.a: If there is a training component for staff specific to these municipal operations:</p> <ul style="list-style-type: none"> • <i>explain the activities and materials;</i> • <i>identify the personnel or outside organization conducting the activities.</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>Staff training to identify illegal discharges and connections as well as pollution prevention training including proper disposal of wastes and record keeping</p>	<p>(YEAR 3) DCSWCD in house training of Highway Department staff to establish waste disposal and record keeping procedure. Facilities toured by DCSWCD staff, highway superintendent and SWMP coordinator; no potential risks from waste disposal or fleet maintenance operations at highway garage facility identified (2/7/2006) (YEAR 4) “Pollution Prevention and Good Housekeeping for Municipal Operations” prepared by DCSWCD and utilized to train current staff and newly hired staff members (MARCH 2007) (YEAR 5) SMP Coordinator and Public Contact will continue to monitor and recommend participation in county wide education and outreach programs though the DCSWCD</p>
<p>Additional Techniques</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>Program Management</p>	<p>(YEAR 4) Draft Good Housekeeping component of SWMP document prepared (MARCH 2007) (YEAR 5) Good Housekeeping component of SWMP document finalized (JAN 2008)</p>
<p>DCSWCD MS4 Assistance Activities</p>	<p>(YEAR 2) See Schedule A, Year 2 Annual Report (YEAR 3) See Appendix A, Year 3 Annual Report (YEAR 4) See Appendix A, Year 4 Annual Report (YEAR 5) SWMP coordinator and public contact will continue to attend DCSWCD monthly coordination meetings</p>
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change: (YEAR 3) Self Assessment Procedure and schedule revised as per NYSDEC MS4 Pollution Prevention Guidance document. Priority given to Road,</p>	

PLEASE PROVIDE COMMENT TO: ehollman@TownofPoughkeepsie-ny.gov

Stormwater & Vehicle Maintenance activities to reduce targeted pollutants.

(YEAR 3) Catch basin count estimate revised due to improved inventorying of basins. The estimate of 945 catch basin in the Wappinger and Fallkill combined from 2004-2005 under reported the quantity of basins vacuum cleaned. A revised estimate of the number of basins in the Fallkill watershed will be available during the 2006-2007 period.

(Year 4) Annual Report revised to address criteria established in July 2006 "Critical Path to Compliance"

Did you include any of the following documents as appendices? Put a mark each appended document.

APPENDIX A Summary of public comments received on the annual report at the public presentation (**Required**)

APPENDIX A Intended response to comments on the annual report (**Required**)

_____ Results of information collected and analyzed, including monitoring data; evaluation of assessment (modeling) of pollutant discharges, including modeling results and pollutant transport trends.

APPENDIX B Other _DCSWCD ACTIVITIES _____

PLEASE PROVIDE COMMENT TO: ehollman@TownofPoughkeepsie-ny.gov

Appendix A



Town of Poughkeepsie

Engineering - M. Horton

DEPARTMENT OF PLANNING

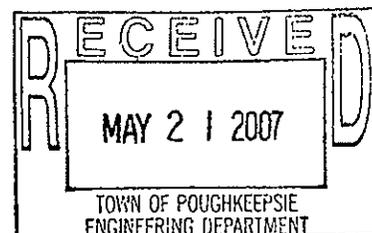
ONE OVERCKER ROAD • POUGHKEEPSIE, NEW YORK 12603 • TELEPHONE (845) 485-3657 • FAX (845) 486-7885

LAURA E. WOJTOWICZ
DIRECTOR OF PLANNING

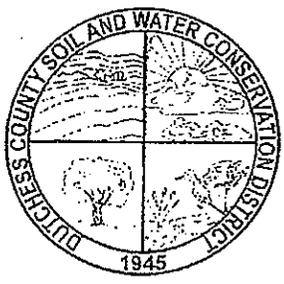
5/18/07

Matt,
DC SWCD Annual Report Year 4 dated 4/26/07
is enclosed for your use.

E. A. Alumn



REC'D
4/30/07 NYS



Dutchess County Soil and Water Conservation District
2715 Rt.44, Suite 3
Millbrook, N.Y. 12545
Phone (845) 677-8011 ext. 3 Fax (845) 677-8354
www.dutchesswcd.org

REC'D MAY 17 2007

TO: DUTCHESS COUNTY MS4 COMMUNITIES
FROM: EDWIN HOXSIE, III, DCSWCD
SUBJECT: PHASE II STORMWATER ASSISTANCE IN YEAR 4
DATE: 4/26/2007
CC: WILLIAM R. STEINHAUS, DUTCHESS COUNTY EXECUTIVE

Eric

Dear MS4s:

This memo provides details regarding Dutchess County Soil and Water Conservation District's (DCSWCD's) activities during year 4 of the Phase II stormwater program. Additionally we have included information regarding some activities completed by other organizations during year 4 and activities that DCSWCD and others are planning to complete within year 5 of the Phase II permit term. For ease of review and reporting, the reportable activities are organized into Phase II's six minimum measures.

1. Public Education and Outreach on Stormwater Impacts

Year 4

During year 4 DCSWCD distributed brochures and other printed materials related to stormwater and water quality at numerous public events including the Dutchess County Fair (8/22-27/06), Adams Fair Acre Farm's Spring Landscaping Event (3/06), at a John Deere Training event (3/24/06), and at our annual seedling sale (4/21-22/06). A sample of the educational materials available to the public is attached to this memo.

DCSWCD arranged for "After the Storm," a 1/2 hour television program about watersheds co-produced by EPA and The Weather Channel to be aired on CableVision Channel 21, Wappingers Falls, on February 12 and 26 and March 5 and 12 and on Comcast on February 2, 3, 4 and 5.

DCSWCD hosted a training session for local contractor regarding proper soil erosion and sediment control on March 24, 2006. A similar training session was held for New York State Department of Parks employees at James Baird State Park on December 14, 2006 as part of their annual training day.

DCSWCD presented with the Village of Fishkill at an informational public session on July 13, 2006 regarding stormwater and water pollution entitled "What is stormwater

Again in 2006, DCSWCD assisted in the organization and administration of the Hudson Valley Regional Envirothon at the Sharpe Reservation in Fishkill on April 28. The Envirothon is an environmentally based competition event between teams of high school students. The 2006 focus topic was "Water Stewardship in a Changing Climate" (see attached notice).

In year 4, DCSWCD staff continued to maintain, update, and improve the stormwater webpage associated with the overall District website (<http://dutchessswcd.org/stormwater.htm>). The webpage includes information and web links useful to residents, businesses, and MS4s regarding Phase II and stormwater.

DCSWCD assisted in the organization of the 2006 Southeast New York Stormwater Conference & Trade Show on 10/17/06 in Beacon (see attached agenda). This conference was attended by many MS4, county, and state officials, as well as consultants, contractors, and stormwater product providers. This all-day conference provided attendees with a plethora of stormwater information and education.

DCSWCD met with Town of Wappinger and the City of Poughkeepsie staff to discuss their needs for Phase II education.

In year 4 DCSWCD staff also presented on Phase II related topics at a Poughkeepsie Planning Board meeting, Vassar College workshop, and two Wappinger Creek Intermunicipal Council (WIC) meetings.

In year 4, the following events and activities were conducted by other organizations:

- The Pace Law School Land Use Law Center staff conducted land use training on November 17, 2006 at the Henry A. Wallace Visitor and Education Center located at the Franklin D. Roosevelt Presidential Library and Museum. This educational event was co-funded by the County Legislature and all Planning Board, Conservation Advisory Council, and Elected Officials were invited to attend.
- Cornell Cooperative Extension Dutchess County (CCEDC) completed two teacher trainings entitled "Water, Water Everywhere: Water Issues in Dutchess County" on January 30, 2007 and February 20, 2007 (see attached notices, class outlines, and sign in sheets).
- CCEDC hosted many open educational forums including:
 - "Understanding Aquifer Recharge Rates and Implications for Septic System Densities" on September 27, 2006. Cosponsored by the Dutchess County Water and Wastewater Authority (see attached notice and sign in sheet).
 - "Assessing the Water Quality of Streams in Dutchess County" on December 6, 2006 (see attached notice and sign in sheet)
 - "Conservation Easements" on January 24, 2007

Other public participation activities that DCSWCD participated in include attending quarterly public meetings of the WIC and Fallkill Creek Watershed Council, and monthly meetings of the Dutchess County MS4 Coordination Committee.

The DCSWCD annual seedling sale also provided an abundant amount of conservation planting material to businesses and residents of Dutchess County. The table below shows the amount of conservation planting and soil erosion and sediment control coverage that occurred in each community because of the seedling sale.

Municipality	Zip Code	# Hardwood	# Conifer	#Shrubs/ Groundcover	#Bags of Seed	#Bags of Mulch	Conservation Acres *	SESC Acres**
Beacon	12508	20	20	80	2	0	0.2	0.0
Fishkill	12524	50	470	100	0	0	0.9	0.0
Holmes (Pawling)	12531	10	100	80	0	0	0.2	0.0
Hopewell Junction (East Fishkill)	12533	190	780	1160	7	6	3.0	0.3
Hyde Park	12538	350	270	1410	2	14	2.6	0.6
Lagrangeville (Lagrange)	12540	100	360	530	0	0	1.2	0.0
Millbrook	12545	1630	5910	3260	10	52	15.9	2.3
Clinton Corners	12514	60	270	1140	2	0	1.7	0.0
Pawling	12564	80	290	400	0	4	1.0	0.2
Pleasant Valley	12569	90	390	1030	3	1	1.9	0.0
Poughquag (Beekman)	12570	230	290	1600	14	35	3.1	1.5
Rhinebeck	12572	160	370	1040	10	0	2.4	0.0
Salt Point (Pleasant Valley)	12578	60	200	760	1	4	1.2	0.2
Staatsburg (Hyde Park)	12580	80	540	920	1	0	1.9	0.0
Stormville (East Fishkill)	12582	30	160	170	1	0	0.5	0.0
Wappingers Falls	12590	120	370	1020	2	17	1.9	0.8
Poughkeepsie	12601	170	140	1270	5	6	2.0	0.3
Poughkeepsie	12603	210	1020	1450	3	4	3.5	0.2

*Calculated at 436 plants/acre (hardwood), 681 plants/acre (conifer), and 1,090 plants/acre (shrubs/groundcover) as per Tree/Shrub Establishment, NRCS, July 2002. Seed coverage approximately 0.5 acres/bag based on manufacturer's instructions.

**Calculated assuming mulch is spread to a depth of 2-inches.

In year 4 the CCEDC had an active volunteer program in the Environmental Program GIS Lab (see attached article for additional detail).

Proposed for Year 5

In year 5 DCSWCD will again hold its annual seedling sale. This sale, as with all previous year's sales, will be open to the public.

4. Construction Site Stormwater Runoff Control

Year 4

DCSWCD hosted a training session for local contractor regarding proper soil erosion and sediment control on March 24, 2006. A similar training session was held for New York State Department of Parks employees at James Baird State Park on December 14, 2006 as part of their annual training day.

As stated previously, DCSWCD has two Certified Professionals in Erosion and Sediment Control (CPESC) on staff to assist communities with soil erosion issues, particularly those due to development or redevelopment projects. DCSWCD regularly responds to calls from MS4s to inspect problem construction sites.

DCSWCD actively promotes the CPESC certification program and hosted a CPESC/CPSWQ exam on November 29, 2006.

During year 4, DCSWCD staff has reviewed construction plans, focusing on soil erosion and sediment control concerns, for the following communities:

- Town of Hyde Park
- Town of LaGrange
- Town of Poughkeepsie
- Town of Wappinger

DCSWCD has also assisted Dutchess County MS4s with the development of regulations related to soil erosion and sediment control as required by the Phase II permit.

Proposed for Year 5

DCSWCD will continue to promote the CPESC certification program and will hold a CPESC training at our facility on March 22, 2007 and proctor the follow up CPESC exam on April 24, 2007.

DCSWCD will continue to assist MS4s with the review of development and redevelopment applications to ensure that soil erosion and sediment control is being adequately addressed.

DCSWCD will also continue to assist the MS4s in the passage of their soil erosion and sediment control regulation by January 8, 2008 as required by the Phase II permit.

5. Post-Construction Stormwater Management

Year 4

In year 4, DCSWCD conducted "close out" inspections of stormwater treatment facilities to the Town of Pleasant Valley. These inspections were to ensure that the facilities were constructed in accordance with the approved construction plans.

Dutchess County (a copy of the presentation and the sign in sheet will be included with the year 5 memo).

DCSWCD will conduct Pollution Prevention/Good Housekeeping trainings for the following MS4s in year 5:

- Town of East Fishkill
- Village of Fishkill
- Village of Wappingers Falls

If you have any question on the items above, please contact Jennifer Smith or myself at 677-8011 x3. We look forward to continuing to collaborate with Dutchess County MS4 communities in the future.

Regards,



Edwin Hoxsie, III
Executive Director



Don't litter. Recycle or dispose of trash properly.

This includes not only metals, plastics, paper, and glass, but also hazardous materials such as batteries, paints, and other household chemicals. Contact Dutchess County Resource Recovery at (845) 463-6020 to find out about



County hazardous waste days, or visit their website at www.dctrra.org for more information.

Gutters and sump pumps

Collect roof runoff in rain barrels, and then utilize this water later on to water your garden. Rain barrels to which you can hook up a garden hose can be purchased or constructed. **OR**

Direct water to grassy or vegetated areas rather than down the driveway and into the street. Lawns will soak up much of the water and cleanse it of pollutants.

Pet waste

Flush it down the toilet. Animal waste material is rapidly absorbed by rainfall and carried into storm drains. The nutrients in it encourage the growth of pathogens and harmful bacteria in our waterways.



Swimming Pools

Before you drain your pool, test the water to make sure that chlorine is not detected. Then direct the drainage to a sanitary sewer, if possible.



Outdoor chemicals

Always store chemicals and cleaning products in a covered area, where any leaks can be contained.



Septic systems

Have your septic inspected at least every two years. A malfunctioning septic system can contaminate not only groundwater, but surface water as well. Generally, septic tanks must be pumped every 3 to 5 years at a minimum.

Don't plant trees or park vehicles over your septic absorption field—this can damage the pipes and lead to leaks.

Refrain from pouring any household chemicals, gasoline, oil, pesticides, or antifreeze down the drain or into toilets; these substances will inhibit the action of bacteria that keep the septic tank system functioning. Additionally, avoid disposing of diapers, cat litter, coffee grounds, cigarettes, feminine hygiene products, and grease into a septic system; they will clog the system's components.

For more information, check out these websites:

Dutchess County Solid Waste Conservation District
www.dctrra.org

New York State Department of Environmental Conservation
www.dec.state.ny.us

United States Environmental Protection Agency
www.epa.gov

United States Department of Agriculture
www.nrcs.usda.gov

United States Department of Health and Human Services
www.hhs.gov

United States Department of Labor
www.dhs.gov

United States Department of Justice
www.dhs.gov

United States Department of State
www.dhs.gov

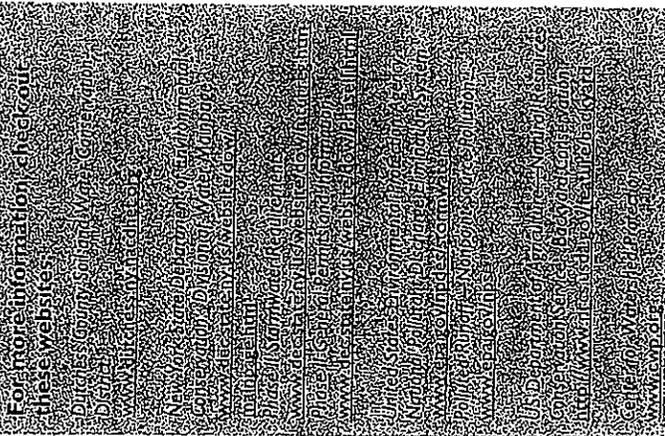
United States Department of the Interior
www.dhs.gov

United States Department of Education
www.dhs.gov

United States Department of Health and Human Services
www.dhs.gov

United States Department of Justice
www.dhs.gov

United States Department of Labor
www.dhs.gov



Dutchess County Soil and Water Conservation District
2715 Route 44, Suite 3
Millbrook, NY 12545

Phone: 845-677-8011 x3
Fax: 845-677-8354
<http://dutchess.ny.madnet.org>

Preventing Stormwater Pollution



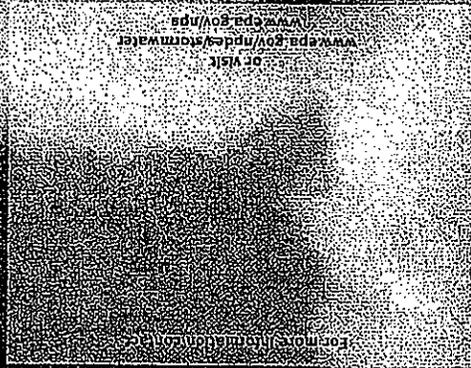
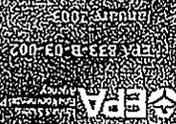
Tips for Home Owners



How you can help protect water quality



Understanding Stormwater A Citizen's Guide to



After the Storm



What is stormwater runoff?



Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater from naturally soaking into the ground.

Why is stormwater runoff a problem?

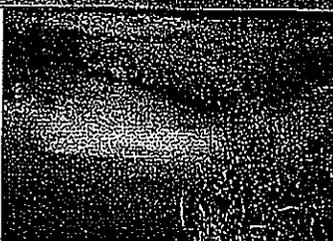


Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water.

The effects of pollution

Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.

- ♦ Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.
- ♦ Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.
- ♦ Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.
- ♦ Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- ♦ Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.



♦ Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.



DUTCHESS COUNTY SOIL AND WATER CONSERVATION DISTRICT

CONSERVATION NEWS 2007

Dutchess County Streams and You

By Edwin J. Hoxsie III

It is said that "coming events cast their shadow before them" and so it is with water problems.

Since the fall of 2005, Dutchess County has experienced higher than average precipitation. This increase in storm intensity and frequency has resulted in property damage, stream and infrastructure damage. All of this has kept the District personnel very busy.

According to *Streams in Dutchess County, NY, Their Flow Characteristics and Water Quality in Relation to Water Problems* (USGS, 1968), "all together there are over 600 miles of named streams in Dutchess County, not including the Hudson River. Adding a reasonable additional mileage for unnamed streams and tributaries, there is over 1 mile of stream for each of the 816 square miles of County area." In reviewing this report, it was pointed out that changes in land use, principally urbanization, can increase both the magnitude of floods and the resultant damages unless steps are taken to reduce the impacts of development on the land.

The past years' events have made the District take a close look at our stream systems countywide. Recent

field observations have identified three major problems affecting our streams:

- Stream bank erosion due to increased runoff has contributed excess sediment to the stream channels.
- Deposition of sediments in the stream channel which reduces the streams capacity to handle base flow, natural sediment loads, and storm events.
- Loss of, or removal of, riparian buffer vegetation. The loss of the vegetation causes stream bank erosion and the loss of filtering capacity to remove pollutants from overland flows to the streams.

If you live near a stream you can help.

- DO NOT remove stream side vegetation or mow to stream edge.
- Replant the stream riparian buffer with guidance from the District. Many of the trees and shrubs in our Seedling Sale Program can be used to re-

store your riparian buffer. There are two publications that will help guide you on good stream stewardship

- * "Life at Water's Edge"
- * "A Guide To Living In Harmony With Streams."
- Check with us about removing downed trees from a stream.

Proper stream maintenance allows the water to flow freely and move sediment through the stream system.

Stream problems have been *casting their shadow* for a long time. Please help the District with this important resource issue.



2006 Stream Report

- On two separate stream stabilization projects totaling 330' of rock rip-rap stabilization, the District provided design, permit packages, and construction oversight, along the Ten-Mile River in Dover.
- Designed, received permit approval and provided construction oversight for 115' of rock rip-rap stream stabilization for the Town of Beekman Recreation.
- Assisted the Town of Stanford Highway with 70' of stream re-alignment and stabilization for the protection of a bridge and roadway.
- Provided the Town of LaGrange with a short term alternative to an extensive stream realignment project while an acceptable design and funding package is put in place for the complete project.
- Designed and received permit approval for 70' of stream re-alignment and stabilization in Washington, to be constructed in the summer 2007.
- Provided assistance to ten homeowners and four highway departments for culvert repairs or replacements

DUTCHESS COUNTY SOIL AND WATER CONSERVATION DISTRICT

District Staff Updates

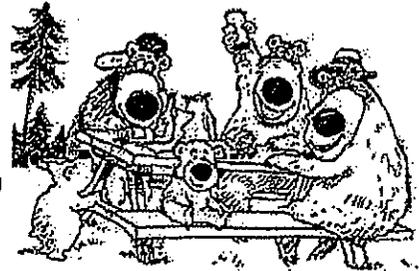
Farewell and Good luck

Heather Grimm, Conservation Technician, has moved on to a new job in a new state. We wish Heather the best of luck in all that she does, we will miss her.

Welcome

We would like to publicly welcome **Jennifer Smith** to the Conservation District family. Jen joins us as an Engineering Technician, focusing on coordinating our growing stormwater program. Prior to coming to us she was employed at a local engineering consulting firm where she worked on and managed many environmental projects, primarily focusing on stormwater and water quality. Jen received a B.S. in Biological and Environmental Engineering from Cornell University and has furthered her credentials by becoming certified as an Engineer in Training (EIT) and most recently as a Certified Professional in Erosion and Sediment Control (CPESC). Jen also has a strong professional interest in low impact design (a.k.a., better site design) and "green" building.

Jen is a Hudson Valley native, growing up in Coxsackie (Greene County). After living and working in Colorado and Rhode Island, she decided to return to her roots and has lived in Dutchess County for the last year and a half. Since moving to Dutchess County, Jen has grown some roots of her own and now owns a home with her fiancé in Clinton Corners.



5 Easy Ways to a Greener, Healthier Yard and Environment!

1. Build and maintain healthy soil

Know what your soil needs – get your soil tested at your local Cornell Cooperative Extension and then feed your lawn only the fertilizer it needs!
Feed your soil with compost. Mulch your lawn clippings and learn how to make compost.

2. Plant right for your site

Decide how you want to use your yard and then choose the right plant for the right place. Plant for the amount of sun, type of soil, and water available.

3. Practice smart watering

Water deeply, but infrequently. You can have healthier plants, save money on water bills, and conserve precious water resources by giving your lawn and garden just what they need, and no more.

Make every drop count.

Use soaker hoses or drip irrigation on beds.
Use an outdoor water timer to water just the right amount, frequency, and time of day.
Water in the early morning!
Direct downspouts out into lawns, rain gardens, or "rain barrels."

4. Adopt a holistic approach to pest management

Start with prevention. A healthy lawn is less likely to have pests.

Mow higher. Most grasses should be mowed to a height of 2 to 3 inches. Taller grass eventually chokes out many weeds.

Use pesticides responsibly. Carefully read and follow pesticide product label instructions.

5. Practice natural lawn care

Use "natural organic" or "slow-release" fertilizers.

"Greencycle" - leave the clippings on the lawn!



Adapted from EPA's GreenScapes program. For additional information visit www.epa.gov/greenscapes or contact the Soil & Water Conservation District.

2006

Envirothon

Challenging Young Minds

The Dutchess County Soil and Water Conservation District would like to invite you to participate in the 2006 Hudson Valley Regional Envirothon on April 28th!

The Envirothon is a fun and interactive way to get your students involved and interested in the environment.

WHAT IS ENVIROTHON?

Teams of high school students engage in a friendly competition that tests their knowledge of six natural resource categories: soils, wildlife, aquatics, forestry, problem solving, and current issues. This year's topic is "Water Stewardship in a Changing Climate". This hands-on competition is very relaxed with team members working together to answer the questions.

WHAT ASSISTANCE IS AVAILABLE IN PREPARING FOR THE COMPETITION?

- DCSWCD can:
 - ◆ Assist with finding study materials
 - ◆ Help interpret materials
 - ◆ Present information on specific topics

Registration Coordinated through DCSWCD

* Expenses for the Regional Envirothon are covered by DCSWCD and other event sponsors, with the exception of transportation

RULES TO PARTICIPATE

Each school is allowed to enter up to two teams of high school students. The teams should consist of up to five members plus an alternate who would replace any team member who is unable to compete. Teams of less than five are acceptable, but five person teams are strongly recommended. Each team must be accompanied throughout the competition by an advisor/chaperone. This person could be a teacher, parent or group advisor. Although the advisor is encouraged to help their team prepare for the competition, they are not allowed to help the teams answer the questions during the competition.

WHAT DOES THE WINNING TEAM RECEIVE?

Regional
At the Regional Envirothon all participants will receive a T-shirt, certificate of participation, and lunch. The first, second, and third place teams each receive additional special awards.

State
The top placing team from Dutchess County is eligible to go on to represent the county at the New York State Envirothon, which will be held in late May.

At the New York State Envirothon the top three teams receive individual scholarship awards and school awards. All winning teams receive other special school and individual awards.

International

The winner of the State competition advances to the 2005 Canon International Envirothon. The 1st-3rd place national winners will be awarded Canon USA funded college tuition scholarships. The 4th-10th place teams will be awarded Canon products. Teachers of the winning teams will also receive Canon products.



IMPORTANT DETAILS TO KNOW

Location: Sharpe Reservation, Fishkill (Dutchess County)
Date: Friday, April 28th
Time: Check-in time 9:00 AM
Ending time around 2:00 PM

If you are interested in participating in the Envirothon please do not hesitate to contact me. My e-mail is Brian-Scoralick@ny.nacdnet.org or my phone # is (845) 677-8011 x 3. For more information on the Envirothon check out these sites:

www.dutchess.ny.nacdnet.org
www.nysenvirothon.org

Dutchess County Soil and Water Conservation District

2715 Rt. 44 Suite 3
Millbrook, NY 12545
Phone: 845-677-8011 ext. 3

6th Annual
Southeast New York Stormwater Conference & Trade Show
October 17, 2006

Conference Agenda

8:00
Conference Registration
Continental Breakfast

8:45
Welcome
Joan Pagonos, Supervisor – Town of Fishkill

9:00
Funding Mechanisms for Stormwater Programs:
From Drainage Districts to Fee Schedules
Rick Hoffman, NYS Dept. of State
Patrick Hines, P.E., McGoey, Hauser and Edsall, Consulting Engineers P.C.

10:00
Trade Show – Refreshments Served

BREAKOUT SESSIONS

Municipal Track

Technical Track

10:30
Illicit Discharge Mapping and Tracking
Andy Sansone, Monroe County Dept. of
Environmental Services

– Low Impact Design Case Study
Kent M. Schwendy, P.E, Fuss & O'Neill

11:15
Illicit Discharge Local Law—Models for
Inter-municipal Cooperation
Jim Dean, Orangetown Highway Dept.

– LID in New York State—Updates and changes
to the NYS Stormwater Guidance Manual
Shohreh Karimipur, NYS DEC

12:00
LUNCH

Municipal Track

Technical Track

1:00
Municipal Pollution Prevention:
Integrating Old Programs with New
Pat Ferracane, NYSDEC
Barbara Kendall, NYS DEC - HREP

– Site Stabilization: Branching Out from
Grasses to Shrubs
John Dickerson, Finger Lakes Consulting
Services

2:00
Education and Public Participation:
SWCDs Connecting with Communities
Kris Breitenfeld, Orange SWCD;
Shino Tanikawa, NYC SWCD

– Stormwater Ponds: From the Design
Manual to the Ground
Peter Karis Jr. RLA, Insite Engineering
Surveying & Landscape Architecture, P.C.

3:00
Trade Show – Refreshments Served

3:30
Construction Site Inspection Panel
Pat Ferracane, NYS DEC
Kevin Sumner, Orange Co. SWCD
Jeff Econom, Town of Yorktown

– Soil Bioengineering Using Gabions
Gene Ambrociak, Maccaferri, Inc.

Circosta	Rocco	Village of Bronxville	200 Pondfield Rd.	Bronxville	NY	10708
Clark	Bart	Oakwood Environmental Assc.	27 Reverie Lane	Warren	CT	06754
Cook	Brian	Fred A. Cook, Inc.	PO Box 71	Montrose	NY	10548
Cook	Brian	Village of Dobbs Ferry	112 Main St.	Dobbs Ferry	NY	10522
Creeden	Michael	Camtek/Stormceptor	3481 Treeline Drive	Murrysville	PA	15668
Crimmens	Teresa	Bronx River Alliance	1 Bronx River Parkway	Bronx	NY	10462
Cusumano, Jr.	Len	Village of Port Chester Bldg. Dept.	222 Grace Church St.	Port Chester	NY	10573
Czajkowski	Kathy	Town of Rotterdam	1100 Sunrise Blvd.	Schenectady	NY	12306
Daidone	Joe	Town of Lloyd	12 Church St.	Highland	NY	12528
Davis	Sam	Town of Putnam Valley	265 Oscawana Lake Rd.	Putnam Valley	NY	10579
Davis	Scott	NYS DOT - Construction	4 Burnett Blvd.	Poughkeepsie	NY	12603
Dean	Jim	Orangetown Highway Dept.	Route 303	Orangetown	NY	10962
DelBalzo, PE	Mark	Fuss & O'Neill of New York, PC	80 Washington St., Suite 301	Poughkeepsie	NY	12601
Delo, PE	Ronald	Town of Orangetown, Dept. of Sewers	127 Route 303	Orangeburg	NY	10962
Detlets	Chantal	City of Rye	1051 Boston Post Rd.	Rye	NY	10580
DeWinter	James	Eustance & Horowitz PC	PO Box 42	Circleville	NY	10919
Dickerson	John	Finger Lakes Consulting Services	3651 Slate Hill Road	Marcellus	NY	13108
Diesing	Carl	NYS Builders Association	3 Ransom Road	Highland	NY	12528
Dombal	Ben	Town of Wawayanda	PO Box 296	Slate Hill	NY	10973
Donegan	Bruce	Pleasant Valley Town Board	1554 Main Street	Pleasant Valley	NY	12569
Doscher	Rob	Westchester Co. SWCD	148 Martine Ave. Rm. 432	White Plains	NY	10601
DuBois	Louis	Town of Lloyd Planning Board	12 Church St.	Highland	NY	12528
Dugan	Ed	Hanes Geo Components	193 Veterans Blvd.	Carlstadt	NJ	07072
Eaton	Angus	NYSDEC Div. Of Water	625 Broadway, 4th Floor	Albany	NY	12233
Econom	Jeff	Village/Town of Mt. Kisco	104 Main St.	Mt. Kisco	NY	10549
Farr	James	McGoey, Hauser & Edsall	111 Wheatfield Drive, Suite 1	Milford	PA	18337
Ferracane	Patrick	NYSDEC - Region 3	100 Hillside Ave., Ste. 1W	White Plains	NY	10603
Feury	Jim	AFR Engineering	110 Stage Road	Monroe	NY	10950
Fiore	Thomas	Town of Rosendale	PO Box 423	Rosendale	NY	12472
Flack	Jeff	Greene Co. SWCD	907 County Office Bldg.	Cairo	NY	12413
Foltz	David	HDR Engineering	711 Westchester Ave.	White Plains	NY	10604
Fon	Richard	Town of North Castle	17 Bedford Rd.	Armonk	NY	10504
Forgash	Sherry	Nassau Co. SWCD	1864 Muttontown Rd.	Syosset	NY	11791
Fusco, Jr., PE	Alfred	Fusco Engineering & Land Surveying	233 East Main St.	Middletown	NY	10940
Gable	Tom	Advanced Drainage Systems, Inc.	58 Wyoming Street	Ludlow	MA	01056
Gaspar	David	Suffolk Co. SWCD	423 Griffing Ave., Suite 110	Riverhead	NY	11901
Geller	Joseph	Cornell Cooperative Extension	10 Patriot Hill Drive	Stony Point	NY	10980
George	Meena	NYSDEC	100 Hillside Ave., Ste. 1W	White Plains	NY	10603
Ggainer, PE	Ronald	Stantec Consulting Services, Inc.	PO Box 3228	Newburgh	NY	12550
Giardiello, PE	John	Town of Orangetown	10 Valley Lane	Garrison	NY	10524

Kuhn	Lorraine	Village of Ardsley	507 Ashford Ave.	Ardsley	NY	10502
Kuntz	Louis	NYSDOT - Construction	4 Burnett Blvd.	Poughkeepsie	NY	12603
Lee	Lawrence	Village of Elmsford	15 S. Stone Ave.	Elmsford	NY	10523
Lemire	Rob	Storm Tech	20 Beaver Rd., Suite 104	Wethersfield	CT	06109
Lewis	Susan	Albany Co. SWCD	PO Box 497	Voorheesville	NY	12186
Lionetti	Madelyn	K.S. Engineers, P.C.	24 Commerce St., 15th Floor	Newark	NJ	07102
Lourens	Deon	CDS Technologies, Inc.	285 Loud Rd.	Fairport	NY	14450
Maestro	Ed	Hydrologic Solutions	1101 Route 32	Rosendale	NY	12472
Mahmood	Asif	NYSDEC	100 Hillside Ave., Ste. 1W	White Plains	NY	10603
Main	Jeffrey	Westchester County PRC	25 Moore Ave., 2nd Fl.	Mt. Kisco	NY	10549
Mancuso, PE	Eve	Brooker Engineering, PLLC	76 Lafayette Ave.	Suffern	NY	10901
Manno	Susan	Town of Putnam Valley	265 Oscawana Lake Rd.	Putnam Valley	NY	10579
Markiewicz	Mary	Town of Wawayanda	PO Box 296	Slate Hill	NY	10973
Marshall	Tim	Town of Washington CAC	510 Sharon Tpke.	Millbrook	NY	12545
Martin	Stanley	Town of Rockland	Highland Ave.	Roscoe	NY	12776
Massimi	David	Town of Rosendale	PO Box 423	Rosendale	NY	12472
May	Charles	Charles P. May & Associates	900 Corporate Blvd.	Newburgh	NY	12550
Moellman	Dan	Advanced Drainage Systems, Inc.	58 Wyoming Street	Ludlow	MA	01056
Moerschell	Gerard	Town of New Castle	200 S. Greenley Ave.	Chappaqua	NY	10514
Moor	Christian	Paggi, Martin & DelBene, LLP	56 Main St.	Poughkeepsie	NY	12601
Moot	Timothy	Clark Patterson Associates	900 Corporate Blvd.	Newburgh	NY	12550
Morrison	Dave	Village of Fishkill	1095 Main St.	Fishkill	NY	12524
Morrissey	Clay	NYS Thruway Authority	34 Windwood Drive	Newburgh	NY	12550
Moss	Kathleen	Town of Hyde Park	4383 Albany Post Road	Hyde Park	NY	12538
Moss	Kathleen	Town of Hyde Park	4383 Albany Post Rd.	Hyde Park	NY	12538
Mullarkey	Althea	Town of Montgomery	110 Bracken Rd.	Montgomery	NY	12549
Mullen	T.J.	Best Management Products, Inc.	53 Mt. Archer Rd.	Lyme	CT	06371
Munno	Stephen	Orangetown Highway Dept.	119 Route 303	Orangeburg	NY	10962
Munoz	Julie	Rohde, Soyka & Andrews, PC	40 Garden Street	Poughkeepsie	NY	12601
Musso	Michael	HDR/LMS	One Blue Hill Plaza, 12TH Fl.	Pearl River	NY	10965
Novak, Jr.	William	Town of Mt. Hope	1706 Route 211 West	Otisville	NY	10963
Nowak	Christopher	Paggi, Martin & DelBene, LLP	56 Main St.	Poughkeepsie	NY	12601
O'Connor	Lewis	Village of Catskill	422 Main Street	Catskill	NY	12414
Oestrike	Rick	Cornell Cooperative Extension - Dutchess Co.	2715 Route 44, Suite 1	Millbrook	NY	12545
O'Kane	Siobhan	AKRF, Inc.	34 South Broadway, Suite 314	White Plains	NY	10601
Paggi	Lawrence		1070 Route 9	Fishkill	NY	12524
Parsons	Barbara	Town of Wawayanda	PO Box 296	Slate Hill	NY	10973
Penczak	Dan	Hydro International	94 Hutchins Drive	Portland	ME	04102

Peree	Ron	MAT, Inc.	10 Rockledge Rd.	Montclair	NJ	07042
Pires	George	Village of Ossining Bldg. Dept	PO Box 1166	Ossining	NY	10562
Piscopo	Jerry	Expanded Supply Products, Inc.	3330 Route 9	Cold Spring	NY	10516
Pilingaro	Jason	Eustance & Horowitz, PC	PO Box 42	Circleville	NY	10919
Rambo	David	Town of New Castle	200 S. Greenley Ave.	Chappaqua	NY	10514
Rang	Keith	Village of Port Chester	10 Pearl Street	Port Chester	NY	10573
Rasmussen	Meg	RBA Group	27 Union Square West	New York	NY	
Reiss	Rolf	Town of Shandaken ZBA	958 Woodland Valley Rd.	Phoenicia	NY	12464
Ritchie	Michael	Dolph Rotfeld Engineering	200 White Plains Rd.	Tarrytown	NY	10591
Rowlett	Suzanne	NYS DEC Region 2	47-40 21st Street	Long Island City	NY	11101
Royael	Rachel	Town of Putnam Valley	265 Oscawana Lake Rd.	Putnam Valley	NY	10579
Ruccolo	Eileen	Village of Port Chester Bldg. Dept.	222 Grace Church St.	Port Chester	NY	10573
Rudnay, CPESC	Miklos	Uster Co. Dept. of Hwy. & Bridges	317 Shamrock Land	Kingston	NY	12401
Russo	Zachary	Paggi, Martin & DeBene, LLP	56 Main St.	Poughkeepsie	NY	12601
Sager	Laura	Columbia Co. SWCD		Ghent	NY	
Sansone	Andy	Monroe Co. Dept. of Env. Services	7100 City Place, 50 W. Main St.	Rochester	NY	14614
Schiafo	Rich	Scenic Hudson	One Civic Center Plaza	Poughkeepsie	NY	12601
Schreck, PE	John	Cashin Associates, PC	1200 Vets Memorial Hwy.	Hauppauge	NY	11788
Schulman	Howard	Town of Washington CAC	510 Sharon Tpke.	Millbrook	NY	12545
Schwendy	Kent	Fuss & O'Neill of New York, PC	80 Washington St., Suite 301	Poughkeepsie	NY	12601
Scorlick	Brian	Dutchess Co. SWCD	2715 Route 44, Suite 3	Millbrook	NY	12545
Segali	Ed	Camtek/Stormceptor	3481 Treeline Drive	Murrysville	PA	15668
Serino	Robert	Town of Lloyd	12 Church St.	Highland	NY	12528
Sevelowitz	Irv	Town of Putnam Valley	265 Oscawana Lake Rd.	Putnam Valley	NY	10579
Silkworth	Wade	Berger Engineers	100 Fulton Ave.	Poughkeepsie	NY	12603
Slezak	Joseph	Albany Co. SWCD	PO Box 497	Voorheesville	NY	12186
Smith	Earl	Town of Putnam Valley Highway	265 Oscawana Lake Rd.	Putnam Valley	NY	10579
Smith	Jennifer	Fuss & O'Neill of New York, PC	80 Washington St., Suite 301	Poughkeepsie	NY	12601
Smith	Jennifer	Dutchess Co. SWCD	2715 Route 44	Millbrook	NY	12545
Soleyn	Sheldon	New York City Transit	2 Broadway	New York	NY	10004
Squicciarini	Anthony	Town of Highlands	254 Main Street	Highland Falls	NY	10928
Stankavage	Joseph	Paggi, Martin & DeBene, LLP	56 Main St.	Poughkeepsie	NY	12601
Steinberg	Robyn	Town of Yorktown	1974 Commerce St.	Yorktown Heights	NY	10598
Sumner	Kevin	Orange Co. SWCD	225 Dolson Ave, Ste. 103	Middletown	NY	10940
Swentusky	Janet	NYS DEC	21 S. Putt Corners Rd.	New Paltz	NY	12561
Tamburro	Vincent	City of Rye	1051 Boston Post Rd.	Rye	NY	10580
Tanikawa	Shino	NYC SWCD	121 Sixth Ave., Suite 501	New York	NY	10013
Taylor	Lauri	Putnam Co. SWCD	841 Fair St.	Carmel	NY	10512
Trapp	Jay	Village of Red Hook	7467 S. Broadway	Red Hook	NY	12571

Agenda
November 17-18, 2006
Land Use Leadership Graduate Retreat

Friday, November 17, 2006

8:30 – 9:00am Breakfast

9:00 – 9:30am Welcome and Opening Presentation
By: John Nolon, Land Use Law Center

9:30 – 12:30pm Session One

**All sessions will be moderated and will include legal information from John Nolon and Joel Russell, Esq.*

Creating Workforce Housing

**Rose Noonan, Executive Director,
Housing Action Council**

**Kenneth Kearney, President, Kearney
Realty & Development Group**

**Creating Traditional Neighborhood
Districts**

**John Clarke, Development and Design
Coordinator, Dutchess County Planning
and Development**

**Lou Marquet, Executive Vice President,
LeylandAlliance**

12:30 – 1:30pm Lunch

1:30-4:30pm Session Two

**All sessions will be moderated and will include legal information from John Nolon and Joel Russell, Esq.*

Creating Workforce Housing

**Rose Noonan, Executive Director,
Housing Action Council**

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Coordinator, Dutchess County Planning
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**Lou Marquet, Executive Vice President,
LeylandAlliance**

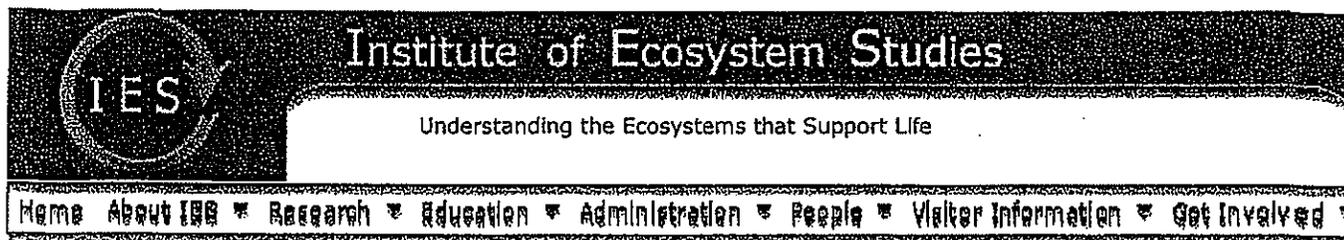
Pace Land Use Law Training

Please Sign In

MMU

- ① Marlene Celler
- Jack Cecar
- Bill Kelly
- Harry Gagan
- LAUREN BINGMAN
- JOSEPH LUNA
- CHRIS CROSS
- Bob Straub
- ROSS WILLIAMS
- DAVE LYBOK
- Bill Flan
- Jennifer Smith
- JAY BARR
- Bill Huber
- Brent Karalchik
- Dave Teter
- John Kongall
- W. Kelsie
- Ludile Grey
- Clay Jell
- Bruce Kendall
- DOREEN TIGNRNEILL
- Wanda H. DINGWALL
- MARCUS MOYNIARD
- Ray Oberly
- Pompa Delafeld
- Becky Thornton
- Mary Darridge
- Thomas T. Jantzen
- Bill O'Neill
- Seth McKee
- John Clarke
- Paul Wayne
- Richard Hawthorne

- Victoria W. STEUER
- Judith King
- Anne Clayton
- Mary Delafeld
- dalib. Malik
- Vicki Douke
- Meta Plotnik
- Kathy Scribani



Scientific Seminars

All seminars take place between 11:00 a.m.
and 12 noon
in the IES Auditorium
and are open to the public at no cost.



Spring 2007

January 18:

Dr. Carol Folt, Dartmouth College - hosted by: Dr. Kristi Judd

"Critical taxa, habitats and ecosystem processes that drive the buildup of mercury in fish"

Please note that Dr. Folt's seminar will be held on **THURSDAY at 1:00 PM** in the Auditorium.

January 26:

Dr. Adrien Finzi, Boston University - hosted by: Dr. Charles Canham

"Amino acids play an important role in the N cycle of temperate forests"

February 2:

Dr. Brenda Casper, University of Pennsylvania - hosted by: Dr. Lorena Gómez Aparicio

"Dissecting generalized mutualisms: mycorrhizae in grasslands"

February 9: CANCELLED

Dr. Melinda Smith, Yale University - hosted by: Dr. David Strayer

"Ecological implications of climate change: linking genes, species and ecosystems"

February 16:

Dr. Bruce Lauber, Cornell University - hosted by: Dr. Peter Groffman

"Capacity building and learning in natural resource and environmental management"

February 23:

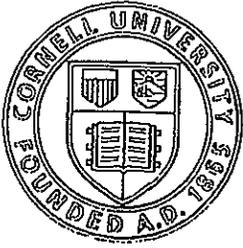
Dr. Dustin Brisson, University of Pennsylvania - hosted by: Dr. Richard Ostfeld

"Effect of host community composition on the distribution and abundance of Lyme disease"

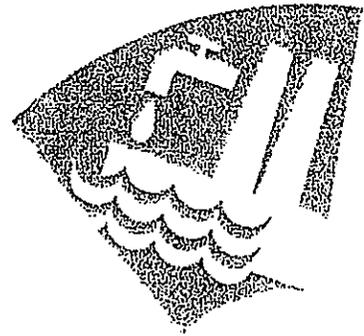
March 2:

Dr. Chris Lortie, University of Nevada - hosted by: Dr. Lorena Gómez Aparicio

"Using community ecology to explore invasive plant species dynamics: two case studies"



Cornell University
Cooperative Extension
Dutchess County



presents an Open Educational Forum....

*Understanding Aquifer Recharge Rates
and
Implications for Septic System Densities*

Wednesday, September 27th

7:30 - 9:00 pm

Farm & Home Center, 2715 Route 44, Millbrook, NY

For information call Rick Oestrike at 677-8223 ext. 135

Guest Speakers:

Scott Chase - Executive Director,
Dutchess County Water and Wastewater Authority (DCWWA)

Russell Urban-Mead - CPG, Senior Hydrogeologist,
The Chazen Companies

How close can homes be built and still insure well water is clean? Most people in Dutchess County rely on well water. They also use septic systems to dispose of waste water. Unfortunately, this creates the possibility that drinking water may be contaminated by nearby septic systems. Recent studies conducted by The Chazen Companies, at the request of DCWWA, reevaluate the preferred densities of septic systems in Dutchess County needed to avoid such contamination. The calculated septic system densities depend on local soil types and the amount of rainfall.

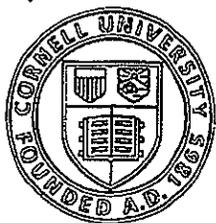
*Cornell Cooperative Extension Dutchess County provides equal program and employment opportunities.
The programs provided by this agency are partially funded by monies received from the County of Dutchess.*

Cornell Cooperative Extension Dutchess County
 Environmental Program
 Educational Forum for September 27, 2006
 Attendance Sheet

NAME	AFFILIATION	ADDRESS	E-MAIL
Peggy Kelland	T. of PoK. CAC	[REDACTED] Poughkeepsie 12603	[REDACTED]
Jeff Battistoni	Town of Pl. Valley	Supervisor	
John Marlow	DCHD	[REDACTED]	
Nancy Swanson	LaGrange CAC ZIBA	you have on file	
Daniel Greenwood	CAC/WASHINGTON		
Kent Johnson	Pearl River P.B.	[REDACTED]	[REDACTED]
Teddy Dolan	Town of Curbed P.B.	[REDACTED] Curbed P.B. 12514	
Binnie Chase	Town of Beekman CAC	[REDACTED] Poughkeepsie NY 12570	
Teddi Southworth	PVCAC	[REDACTED] PV on file	
ELFRIEDE TILLY	UNION VALE	[REDACTED] Lagrange	
Marie Chapman	CAC Pine Plains	[REDACTED] Pine Plains	
Jean S. Pedman	" "	[REDACTED] -P.P.	
Thomas Sanfel	FB, FLBA	[REDACTED] 12570	
Jayne Sanders	Res. dir. of Town of Clermont	[REDACTED] Starbuck, NY 12580	
[REDACTED]	Clinton CAC	[REDACTED]	
Dennis Rosewood	LA GRANGE PLANNING Bd	[REDACTED] LA GRANGEVILLE	
Edward Jessup	Town of LaGrange	[REDACTED]	
Dr. Matt McMahon	TOWNS OF WAPPINGER CAC	[REDACTED] Poughkeepsie 12603 WAPPINGER FLA, NY	

Cornell Cooperative Extension Dutchess County
 Environmental Program
 Educational Forum for September 27, 2006
 Attendance Sheet

NAME	AFFILIATION	ADDRESS	E-MAIL
Howard Schuman	Millbrook Monitor		[REDACTED]
Constance Barbara Neubauer Monitor	Millbrook Monitor	Millbrook, NY 12545	[REDACTED]
CHRISTOPHER BROWN	Pleasant Valley, CAC	[REDACTED] Poughkeepsie, NY 12603	[REDACTED]
Maggie Licchelli	PLEASANT VALLEY COMMITTEE OPEN SPACES	PLEASANT VALLEY NY 12569	[REDACTED]
Gene Sance	UNION VALLE Planning Bd.	Catskill, NY	[REDACTED]
Heather LaVarnway	Dutchess County Planning	[REDACTED] P.O. NY 12561	[REDACTED]
D. Eberle MD	NY Fishkill	[REDACTED] Fishkill, NY 12528	[REDACTED]
Louisebert	Fishkill Cr. Watershed Comm NYSDDEC	[REDACTED] Fishkill, NY 12528	[REDACTED]
W. A. Relyea	Town of CLINTON	[REDACTED] Clinton, NY	Already on file
Ann R. [REDACTED]	Town of CLINTON	[REDACTED] Clinton, NY	[REDACTED]
Charlotte Norman	CAC Milan	[REDACTED] Milan, NY	[REDACTED]
STACY HOPPEN	CEPC Env. Program	[REDACTED]	[REDACTED]
Mark Doye	Amenia Enviro. Prog. Zoning Amenia CAC	Wassau, NY 12592	[REDACTED]
Tonia Shoumatoff	HVAN-Y. Watershed Mgr.	Wassau, NY 12592	[REDACTED]
JOE HAYES	TOWN OF GARDNER VLSDEC CB.	[REDACTED]	[REDACTED]
Jerry Ottaway	PLEASANT VALLEY	[REDACTED]	[REDACTED]
Rick Wilhelm	Pleasant Valley	P.V. 12569	[REDACTED]
C. J. Diesing	Highland - Alder Covey	Highland, N.Y. 12528	[REDACTED]



Cornell University
Cooperative Extension
Dutchess County



*Cornell Cooperative Extension Dutchess County
Environment Program presents an Open Educational Forum...*

Assessing the Water Quality of Streams in Dutchess County

Wednesday, December 6, 2006
Farm and Home Center, Rt. 44, Millbrook, NY
7:00-8:30 p.m. (*Note the Earlier Start Time!*)

Two recent water quality studies will be presented this evening by:

- * **David Burns, New York City Department of Environmental Protection (DEP):** *“Assessment of In-Stream Water Quality of Hudson River Tributaries in the Rural-to-Urban Landscapes of Dutchess County.”*

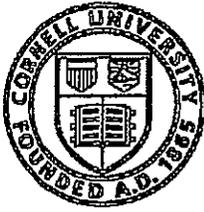
and

- * **Tonia Shoumatoff (Watershed Coordinator) & David Reagon (Stream Team Member), Tenmile River Watershed, Housatonic Valley Association:** *“Tenmile River Assessment: Shoreline Survey & Action Plan.”*

Save the Date: January Forum, Conservation Easements, 1/24/07, 7:00 p.m.

For more information, contact Cornell Cooperative Extension Dutchess County at 845-677-8223 x 136.

*Cornell Cooperative Extension Dutchess County provides equal program and employment opportunities.
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Cornell University
Cooperative Extension
Dutchess County



Environment Program
December 6, 2006
Sign-In Sheet

53

NAME	AFFILIATION	PHONE	E-MAIL
Carl Popp		[REDACTED]	
Peggy Kelland	CAC Town of Poughkeepsie		
Georgette Deir		[REDACTED]	
J-C FOUËRE	Town of PK CAC	[REDACTED]	[REDACTED]
Dr. & Mrs David Eborb	Fishkill Watershed Comm.	[REDACTED]	
Cliff Schwark	Beekman CAC	[REDACTED]	
Lou Lelyveld	HP CAC		
Thomas Tolcarstei	TOWN of Union Vale CAC	[REDACTED]	[REDACTED]
Shake Buff	Town of Milk CAC	[REDACTED]	[REDACTED]
Jalal Malik	EMC	[REDACTED]	as file
Wilfrone Citaludiana	WAPPINGER FALLS WATERSHED	[REDACTED]	[REDACTED]
Marshall Pragnall	Vassar College	[REDACTED]	[REDACTED]

NAME

AFFILIATION

PHONE

EMAIL

✓ NORWEGE COLLIER - CLINTON CAC

STACY HOPPEN - CCEPC ENVIRONMENT PROGRAM

✓ Teddi Southworth - PR. CAC -

Elizabeth Whaley Amenia CAC

ELISA SUMNER

COVERED COVER
RESIDENT (HVA)

✓ MIKE APPOLOMIA TOWN OF CLINTON - COUNCIL

Ray Oberly Town of Clinton Supervisor

Smart Findlay IES

✓ Shela Smith Mill CAC

✓ Frank Maigotta

u

✓ ~~Barb~~ BARBARA SWEET
Howard Schuman

HYDE PARK
Millbrook

JOE CHIARITO

TEN MILE RIVER TEAM

○ Tonia Shoumatoff HVA Tenmile River
Watershed Coordinator

Fred Robbins

Fish Kill Creek Watershed Comm.

Sigmund Holtz

Mid-Hudson Trout Unlimited

DAVID BUONS

CCE



Cornell University
Cooperative Extension
Dutchess County

September/October 2006

-- Hold the Date --

Cornell Cooperative Extension
Dutchess County

Annual Dinner
Wednesday -- November 1
at
Troutbeck in Amenia

(Another vote on Constitution
with some minor changes)

Look for your mailing in late September.



Don't forget

National 4-H/CCE Week

October 1-7, 2006

Stop by for a visit to see new displays!



Land & Living

VOLUME 15 NUMBER 5

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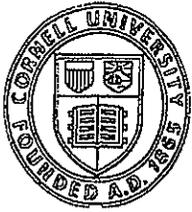
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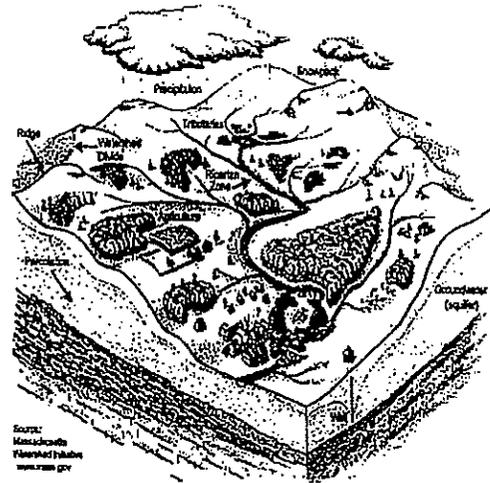
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Environment



Cornell University
Cooperative Extension
Dutchess County



Water, Water Everywhere : Water Issues in Dutchess County

A 3-hour In-Service workshop for Biology & Chemistry teachers,
sponsored by CCEDC Environment Program

Tuesday, January 30, 2007

3:30 — 6:30 pm

Dutchess County Farm & Home Center
2715 Route 44, Millbrook, NY

Topics covered in this program will include:

- Water Budget for Dutchess County
- Water Use and Conservation
- Types of Water Quality Threats
- Land Uses That May Pose a Threat
- Riparian Buffer Zones
- Introduction to GIS Info and Resources
- Use of Dutchess County GIS Data

Participants will also receive Dutchess County GIS (Geographic Information System) data that can be used on home or school computers, and a variety of handouts suitable for classroom use.

There is no fee for this program, however space is limited, so registration is required. Light refreshments will be provided. For more information, or to register, please contact Rick Oestrike (Water Resources Program Educator), at (845) 677-8223, ext. 135, or rwo6@cornell.edu.



Cornell University
Cooperative Extension
Dutchess County

CCEDC Environment Program
Biology/Chemistry/Ecology Workshop Outline

- 1) *Water Budget for Dutchess County* (15 mins)
 - (a) Factors affecting water budget
 - amount of precipitation in Dutchess County
 - soil types
 - slope and vegetation
 - (b) Average water budget in Dutchess County

- 2) *Water Use and Conservation* (15 mins)
 - (a) Introduction
 - (b) Why conserve?
 - (c) How to conserve

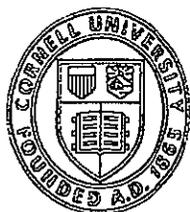
- 3) *Threats to Water Quality (Surface and Groundwater)* (50 mins)
 - (a) Types of water quality threats
 - sediment
 - nutrients (nitrate and phosphate)
 - salt
 - other chemicals (petro. chems., VOC's, heavy metals)
 - pathogens (bacteria and viruses)
 - pharmaceuticals
 - (b) Land uses that may pose a threat
 - landfills, dumps and junkyards
 - gas stations, service stations and oil storage facilities
 - dry cleaners
 - salt storage facilities
 - chemical industries
 - etc.
 - (c) Potential classroom discussion questions
 - what threats are associated with roads?
 - what threats are associated with homes?

Water, Water Everywhere; Teacher's Workshop -- January 30, 2007

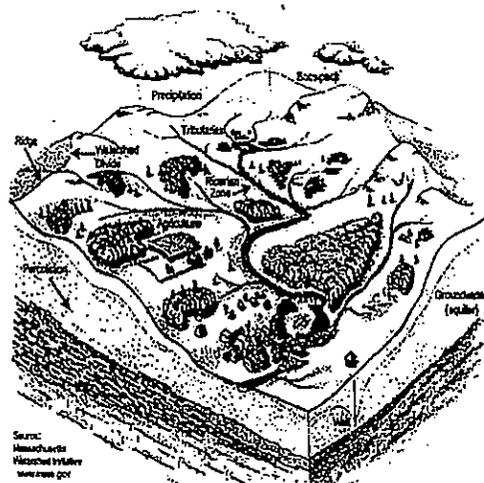
GIS

First	Last	School and District	Address	Town	State	Zip	Phone or email
1	Paul	Dover	2308 Rt 22	Dover	NY	12522	845 832 4520 kenny@dovertedu.bees.org
2	LINDA	ARLINGTON	15 Hurby Hk. j Lts	SALT POINT	NY	12578	j.11ojumto@acsdsn.y.or
3	Christine	Rhinebeck	45 N. Park Rd.	Rhinebeck	NY	12572	(845) 841-5500 GIS
4	Theresa	Arlington	23 Revere Rd	Fishkill	NY	12524	486-4860 - school +gerlach@acsdsn.y.or
5	Bill	Arlington	4 Vail Ave	Beacon	NY	12508	wsrebert@acsdsn.y.or
6	Karen	No. Dutchess Christian School	59 Fisk St	Red Hook	NY	12571	kpstewart@earthlink.net
7	Pauline	FMS Arlington	269 Schoolhouse Rd	Starkburg	NY	12580	pat@613@aol.com 266-8110 YES
8	YAT	RC KETCHAM HS WAPPINGERS	201 Widmer Rd	WF	NY	12590	Patricia - dunn to no @wappingers; 298-9410
9	Cathy	RC Ketcham WCD	16 Jennifer Dr	WF	NY	12590	Catherine. Kim @ wappingers - 574 0015.9 226-7326
10	Dale	Arlington	115 Springtown Rd	Newfatez	NY	12561	256-9316 dcazzina@acsdsn.y.or
11	Ron	John Jay WAPPINGERS	4 Norman Ct	WF	NY	12590	298-4802 Ronald.Shields @ wappingersschools.wi
12	Debbie	Hood Hood	103 W Market St Red Hook		NY	12571	dbeam@hcsd.orc

GIS



Cornell University
Cooperative Extension
Dutchess County



Water, Water Everywhere : Water Issues in Dutchess County

A 3-hour In-Service workshop for Earth Science/Physical Science teachers, sponsored by CCEDC Environment Program

Tuesday, February 20, 2007

3:30 — 6:30 pm

Dutchess County Farm & Home Center
2715 Route 44, Millbrook, NY

Topics covered in this program will include:

- Water Budget for Dutchess County
- Major Watersheds of Dutchess County
- Water Use and Conservation
- Types of Water Quality Threats
- Riparian Buffer Zones
- Introduction to GIS Info and Resources
- Use of Dutchess County GIS Data

Participants will also receive Dutchess County GIS (Geographic Information System) data that can be used on home or school computers, and a variety of handouts suitable for classroom use.

There is no fee for this program, however space is limited, so registration is required. Light refreshments will be provided. For more information, or to register, please contact Rick Oestrike (Water Resources Program Educator), at (845) 677-8223, ext. 135, or rwo6@cornell.edu.

Earth Science/Physical Science Workshop

- 1) *Water Budget For Dutchess County* (25 mins)
 - (a) Factors affecting water budget
 - amount of precipitation in Dutchess Co.
 - soil types
 - slope and vegetation
 - (b) Ave. water budget in Dutchess Co.

- 2) *Major Watersheds In Dutchess County* (15 mins)
 - (a) Definition of a watershed
 - (b) Major watersheds in Dutchess Co,
 - (c) Major streams, wetlands, lakes in the Wappinger Creek Watershed

- 3) *Riparian Buffers* (15 mins)
 - (a) What is a Riparian Vegetated Buffer?
 - (b) Benefits of Riparian Buffers
 - groundwater filtering
 - wildlife habitats
 - erosion control
 - flood control

- 4) *Water Use And Conservation* (15 mins)
 - (a) Wells vs. public water in Dutchess Co.
 - (b) Why conserve?
 - (c) Household water usage
 - (d) How can we conserve water?

- 5) *Threats to Water Quality (surface and Groundwater)* (20 mins)
 - (a) sediment
 - (b) nutrients (nitrate and phosphate)
 - (c) salt
 - (d) other chemicals
 - (e) pathogens
 - (f) pharmaceuticals

Water, Water Everywhere; Teacher's Workshop -- February 20, 2007

First	Last	School and District	Address	Town	State	Zip	Phone or email
Adrienne	de Marc	ARLINGTON HIGH SCHOOL	1157 Rte 55 Box	La Grange	NY	12540	ademarc@acsdkny.org
Maurice	Van Ackoy	Union Vale Middle School	1657 E Noxon Rd	La Grangeville	NY	12540	mvaackoy@acsdkny.org
Daniel	Recktenwald	Union Vale Middle School	1657 E. Noxon Rd.	La Grangeville	NY	12540	drecktenwald@acsdkny.org
Kirk	Dornton	Arlington High School	72 Delmarville Rd	Newburgh	NY	12550	kdornton@acsdkny.org
Christina	Pominville	Speckentheil High School	115 Crott Rd	Bushkill	NY	12603	christina.pominville@acsdkny.org
Emily	Price	Arlington High School	1157 Rt. 55	La Grangeville	NY	12540	emprice@acsdkny.org
Bill	Swick	Arlington High School	1157 Rt 55	La Grangeville	NY	12540	swick@acsdkny.org
Janice	Swick	Bushkill Intermediate Christian Academy	155 Academy St	Bushkill	NY	12604	jswick@acsdkny.org

speckentheil@acsdkny.org
schools.org

1/11
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WHAT IS STORMWATER POLLUTION?

Why be concerned about the amount and quality of stormwater?

What can we do about it?

THURSDAY, JULY 13, 2006 – 6:30 PM

VILLAGE OF FISHKILL – Village Hall, 1095 Main Street, Fishkill, NY

The Village of Fishkill and Dutchess County Soil and Water Conservation District will present an information session on stormwater and water pollution. Topics will include why stormwater control is a growing concern, what everyday citizens can do to reduce water pollution, and what the new "Phase II" Stormwater regulations mean for Dutchess County residents.

CALENDAR

Ecology Camp Junior Counselors

Interested in spending a week helping young campers investigate IES? Consider becoming a volunteer junior counselor in our Ecology Day Camp. Open to students entering grades 8-12. Contact Kim Natin at (845) 677-7600 x303 or notink@ecostudies.org

Free Weekend Education Programs

Offered monthly, our weekend education programs are geared toward families and the general public. For information on upcoming events, visit www.ecostudies.org/public.html

- April 14: Interpreting the Magical Music of Spring's Frogs
- April 29: Earth Day Event: The State of the Hudson Valley
- May 26: Woody and Herbaceous Landscape Plants
- June 23: Butterflies and Habitats

Global Warming Panel

April 19, 6 p.m. to 8 p.m., IES Auditorium
IES scientists and educators will address questions about this pressing environmental issue, including information on what you can do to reduce your CO₂ footprint.

Free Friday Scientific Seminars

Seminars are held at 11 a.m. in the IES auditorium from September until early May.
March 30: "Cyclic dynamics of leptospirosis in California sea lions" Dr. James Lloyd-Smith, Center for Infectious Disease Dynamics, Penn State University

April 6: "Tracing the biogeochemical cycling of silica" Dr. Louis Derry, Cornell University

April 20: "Can ecosystem services save conservation from being a bit-player on the global agenda?" Dr. Peter Kareiva, The Nature Conservancy

April 27: "Strategies for increasing the chances that environmental decision-making is guided by sound science" Dr. David Hart, University of Maine

IES Continuing Education

The Continuing Education Program is accepting registrations. For information or to request a brochure, call (845) 677-9643 or visit: www.ecostudies.org/education/continuing.html

Upcoming courses include:

- May 19: Summer Container Gardens
- May 20: Spring Wild Plant ID
- May 30: Wetland Restoration
- June 2: Shrub Walk
- June 2: Native Plants
- June 10: Weed Walk
- June 10: Gardening to Attract Birds
- June 23: Landscapes of the Hudson Valley
- June 24: Fern Identification
- May 5: Drawing Flowers and Plants in Their Natural Habitat



Interested in learning about upcoming IES events via e-mail? Join our e-mail distribution list by sending your address to freemanp@ecostudies.org

Ways to Support the Institute

The Institute offers two membership levels. **General members** receive an e-brochure subscription, notification when IES holds open lectures and events, and enrollment in a reciprocal admission program. **Aldo Leopold Society Members** are a special part of the IES family. Exclusive Aldo privileges include access to invitation-only lectures, talks, science updates, and dinner parties.

General Membership

\$50 Individual

\$60 Family

\$100 Sponsor

\$250 Club/School

Aldo Leopold Society Membership

For donors who want to invest in understanding the natural world.

\$250 Sponsor \$5,000 Leader

\$1,000 Patron \$10,000 Director

\$2,500 Benefactor \$25,000 Founder's Circle

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PLEASE MAKE CHECKS PAYABLE TO:
INSTITUTE OF ECOSYSTEM
STUDIES

OUR RETURN ADDRESS:
IES DEVELOPMENT OFFICE
BOX AB
MILLBROOK, NY 12545

QUESTIONS OR COMMENTS?
PLEASE CALL
(845) 677-7600 X203

Appendix B

May 16, 2007

Supervisor Patricia Myers
One Overocker Road
Poughkeepsie NY 12603

Subject: Public Comment on the Draft 2007 Stormwater Management Program Annual Report

I would like to offer the following public comment on the Town's Draft 2007 Stormwater Management Program Annual Report. As required by NYSDEC SPDES General Permit for Stormwater Discharges from MS4s, a summary of comments and intended responses must be included in the annual report and the final report must be made available for public inspection.

1) Does Town have database of all permanent stormwater facilities that the Town has accepted from recent developments? If not, how are these facilities being tracked for inspection and maintenance? If no database exists, one should be created.

2) The town should consider creating Stormwater Drainage Districts for each new subdivision. By forming such districts, costs of future monitoring and maintenance of stormwater facilities would be funded only by residents of new subdivision. By doing so, the burden would not be on the entire town. The Towns of LaGrange and Hyde Park have formed such districts.

3) Minimum Control Measure 4 states that Town Engineer performs regular inspections of active construction sites and makes recommendations to contractors to ensure compliance with permit conditions, including SWPPP. The town also relies on the weekly inspection reports provided by the developers' own engineers to monitor SWPPP compliance. The Town's schedule of inspections, which are not clearly outlined, as well as method of ensuring compliance may not be adequate.

For example, a concern regarding violation of Phase II Stormwater Regulations at the Oakwood Commons project was brought to the attention of the town's Stormwater Contact. The majority of the 10-acre site had been disturbed, a fact clarified by a site visit resulting from the complaint. In order to minimize the amount of exposed soil, any site that disturbs more than 5 acres at once requires special permission from the NYSDEC. No permission was sought from or granted by the NYSDEC to disturb more than 5 acres. The Town Engineer in July 2006 required that a phasing plan be included in the SWPPP with a chart outlining disturbance and conformance to the 5-acre disturbance criteria. The developer's engineer responded in August 2006 stating "A construction phasing plan has been included in the SWPPP. This phasing plan also has a chart that specifies the disturbance area of each phase, and

conforms to the 5-acre disturbance criteria." In September 2006, minutes of a Site Kickoff Meeting for Oakwood Commons Project prepared by the Project Manager stated "It was agreed that the 5-Acre criteria set forth in the SWPPP plan would be adhered so as not to cause the need for a variance from the NYSDEC". Additionally, there is a field on the weekly Construction Stormwater Inspection Report checklist, #16, stating "Are there currently more than 5 acres of disturbed soil at the site without prior approval?" that must be answered "yes", "no" or "n/a". Since the majority of the site had been disturbed for at least a month prior to the time of the violation inspection, how was this question answered and who from the town was verifying the validity of the answers? How did this site violation, clearly visible from Route 9, go unchecked.

4) The Town should have a central location, perhaps with the Stormwater Contact person, so records of violations and follow-up are available for public review. The public should be made aware of how to obtain that information.

Doreen Tignanelli

cc: E. Hollmann
(sent via email and fax)

Town of Poughkeepsie Stormwater SPDES No. NYR20A198

As part of the Town's ongoing stormwater management plan, public comment has been compiled on the 2006-2007 draft Stormwater Management Annual Report. The following draft response will address those comments received by the Town Board and Stormwater Public contact during the public comment period ending May 16, 2007.

In regards to written comments on the Stormwater Draft Annual Report from Doreen Tignanelli, of the Town of Poughkeepsie, dated May 16, 2007:

1. The town engineer maintains a database of post construction stormwater management practices and a schedule for their inspection.
2. So noted. The town board has established a town wide drainage district for inspection and maintenance of the municipal storm system.
3. Compliance inspections are performed on a case by case basis depending on the necessity of land development activities. Complaints by residents, prior violation history, the erodibility of site specific soils, seasonal weather conditions, the nature of the proposed development, and additional factors all effect the frequency of compliance inspections. Construction duration inspections are to be prepared for the developers by a certified professional on a weekly basis or after 0.5" storm events.

Violation records should be available to the public at the building department or from the stormwater public contact via a freedom of information act (FOIL) request.