



Andrew J. Spano, Westchester County Executive

County Board of Legislators

**WESTCHESTER COUNTY
PHASE II STORMWATER
MANAGEMENT PROGRAM
ANNUAL REPORT**

For The Period

March 10, 2006 – March 9, 2007

SPDES Permit Number NYR20A128

PREPARED BY

DEPARTMENT OF PUBLIC WORKS

and

DEPARTMENT OF PLANNING

COUNTY OF WESTCHESTER

NEW YORK

MAY 2007

COUNTY OF WESTCHESTER
DRAFT
STORMWATER MANAGEMENT PROGRAM
ANNUAL REPORT

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S.0 EXECUTIVE SUMMARY

In March 2003, the County submitted to the New York State Department of Environmental Conservation (NYSDEC) a Notice of Intent (NOI) for coverage under the State Pollutant Discharge and Elimination System (SPDES) General Permit (GP-02-02) for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).

The NOI outlined the elements of the County's stormwater management program and the measurable goals associated with implementation of best management practices (BMPs) to improve the quality of stormwater runoff. In March 2003, NYSDEC acknowledged receipt of the County's NOI and assigned an MS4 SPDES permit number to the County (NYR20A128). In April of 2004, the County completed its first Annual Report under the General Permit program. In July of 2005, the NYSDEC sent comments on that report to the County. Subsequent annual reports were prepared and submitted to the New York State Department of Environmental Conservation in 2005 and 2006.

As required, the County's stormwater management program includes the following six minimum stormwater management control measures. More detail of the specific management practices under each minimum control measure is included in Section 1 of the report and the accompanying reporting form.

1. Public Education and Outreach. The County continues to develop and expand its public education and outreach program. The program is aimed at educating and informing the public of the impacts of stormwater discharges on waterbodies, the pollutants of concern and their sources, and the steps the public can take to reduce such discharges and pollution. The County is working closely with local Westchester municipalities in this effort and is partnering with 34 of the 43 municipalities on a grant to develop a regional public education and outreach program. The County continues to work closely with other groups and organizations such as the Soil and Water Conservation District to disseminate information and sponsor technical workshops on stormwater best management practices. The County is also active in preparing education materials and outreach efforts targeted at residents to encourage residential practices to reduce pesticide and fertilizer use,

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eliminate illicit discharges to catch basins and other stormwater structures, and take other measures to better understand the environment and improve water quality.

2. Public Participation and Involvement. The County continues to encourage public participation and involvement in the development and improvement of its Stormwater Management Plan and individual water quality protection efforts. In addition to publicizing and encouraging comments on the Annual Report, measurable goals for the public involvement/participation program include developing and continuing volunteer programs and public participation initiatives.
3. Illicit Discharge Detection and Elimination. The County has a program to detect and eliminate illicit discharges into its storm sewer system. The program includes ongoing development of a map showing locations of outfalls and waters that receive discharges from those outfalls. Enforcement procedures and appropriate measures for implementing them are in place and will be continually evaluated to determine their effectiveness.
4. Construction Site Stormwater Runoff Control. The County has developed a program to reduce pollutants from stormwater runoff from construction activities that involve land disturbance. At a minimum, the protection is equivalent to the requirements of the General Permit for Construction Activities (GP-02-01) and in most cases exceeds those requirements by requiring the application of those standards to all land disturbance activities regardless of type of activity or amount of disturbance. BMPs also include development of a mechanism for responding to complaints.
5. Post-Construction Stormwater Management. The County has implemented policies and procedures that call for the incorporation of structural and/or non-structural best management practices that will reduce the discharge of pollutants to the maximum extent possible on capital projects. The County has also created a capital project and has successfully received grant funding for the retro-fitting of existing County facilities. The County intends to install and implement a variety of types of stormwater structures and best management practices so that others can learn from the County's efforts.

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6. Pollution Prevention/Good Housekeeping for Municipal Operation. The County is implementing an operations and maintenance (O&M) program that will reduce and prevent the discharge of pollutants to the maximum extent from municipal activities including, but not limited to, park and open space maintenance, fleet and building maintenance, stormwater systems maintenance, roadway maintenance. The O&M program under development includes training components. Other BMPs include street sweeping, inspections and cleaning out of catch basins, and continuation of the County's solid waste management and recycling programs.

Westchester County is committed to protecting water quality and improving the quality of stormwater runoff. The County has built upon existing measures and implemented new programs and procedures in the areas of capital project design, construction methods and inspection, operation and maintenance, and education and outreach. The County strives to not only meet the measurable objectives contained in its NOI but to take advantage of opportunities to improve existing programs and procedures and disseminate information to local municipal officials and the general public to the maximum extent practical. This involves seeking grant funding and working in partnership with local municipalities and other agencies to share resources and maximize effectiveness and efficiencies.

1.0 SIX MINIMUM CONTROL MEASURES

1. Public Education and Outreach

As part of this element, the County has continued its existing public education and outreach program that has for many years addressed control of stormwater impacts and the protection of water resources. The County's program contains the outreach techniques and management practices suggested by the State's General Permit, as well as others that are unique to Westchester County. Using this approach, a strong public education program regarding stormwater runoff controls exists and will continue to evolve to appropriately target County residents.

In the past year, the County has provided information on its web pages that expands the amount of stormwater information available to the public, the forty-three municipalities, and interested parties and organizations within the County. Other public education activities have included catch basins stencils and markers, exhibits at events, seminar training and participation, and a speaker's bureau. In the coming year, the County will continue these activities. A number of specific illustrative examples of the County's accomplishments related to this element include:

- The County has distributed catch basin stencils and markers to communities and community organizations. This program has been on-going for a number of years.
- The County continues to Co-sponsor Student Land Use Symposia in March and April each year, at which students present the results of their water quality studies and learn about stormwater and other environmental issues in the county.
- County staff attended the Lower Hudson Coalition of Conservation District/Soil and Water Conservation District Stormwater Phase II Workshop held in Poughkeepsie in November and three other workshops held in the region.
- The County, working with the Westchester County Soil and Water Conservation District, co-sponsored two technical workshops on erosion and sediment controls.

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- Stormwater and environmental issues are incorporated into the curriculum at the Westchester Municipal Planning Federation Land Use Institute workshops for local board members and professional planners.
- The County is continuing to work on updating its website to provide additional information on stormwater pollution prevention.
- The County continues to submit applications for funding from a variety of grant sources and has worked to develop additional funding methods to expand its stormwater education and outreach efforts. The County, in partnership with 34 Westchester municipalities, has been awarded one of those grants and will be completing a majority of the work on it in 2007. The County and the Soil and Water Conservation District have also used funding to create additional water quality related information and brochures.
- The County also supports environmental boards and committees such as the Westchester County Soil and Water Conservation District and the Environmental Management Council and works closely with other organizations like the Cornell Cooperative Extension Service to develop education and outreach programs and materials. Through organizations like these, the County is able to reach a wider audience.

2. Public Involvement/Participation

Over the last year various existing County programs for stormwater related public involvement have included activities such as: adopt-a-road cleanups, beach cleanups, park cleanups, Bronx River workshops, and an award-winning citizen volunteer water quality monitoring program.

A number of specific illustrative examples of the County's accomplishments related to this element include:

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- The Westchester County Citizens Volunteer Monitoring Program is part of the County's comprehensive program to protect water quality. Volunteer teams of Westchester residents collect water quality data for streams, which is added to a database and used to evaluate stream health over time. This program involves both old and young alike and people from throughout the County, teaching them about their environment and offering the opportunity to actively participate in the collection of data that will be used to form a baseline to evaluate water quality conditions. This program continues to grow and is involving more school groups. Additional education tools will be developed to enhance the value of this program as an educational program and to as a way to attract residents to actively participate in efforts to improve water quality.
- The County has organized the Bronx River Watershed Coalition and continues to facilitate this watershed planning effort. Work on the watershed plan will continue through 2006 and 2007, when the watershed plan will be released. The Department is coordinating the watershed planning efforts for the Bronx River with the Army Corps of Engineers Ecosystem Restoration Study in order to maximize the resources available for both plans. Following the release of the plans, the County will work closely with the Coalition and the Army Corps of Engineers to implement the recommendations of the plans.
- The County worked with the local communities in the development of the Croton Bay Watershed Conservation Plan. The plan will be completed by mid-2007, including an evaluation of current conditions and recommendations to improve water quality. The County applied for and has been awarded a grant to implement the plan by creating an IMA among the municipalities. This will be completed in 2008.
- County staff also participate on various Long Island Sound Study committees, which are focused on controlling nonpoint sources of pollution that contribute to stormwater quality problems in Long Island Sound and its harbors and bays in the county.
- The County is represented on a number of boards and committees that deal with stormwater management issues, such as the Saw Mill River Coalition. The County

continues to reach out to volunteer organizations and hosted the Conversations on Conservation conference in November and quarterly Conversations on Conservations Cafes on topics such as road salting and pesticide reduction. Similar events will be held throughout 2006.

- The County utilizes volunteers extensively in its efforts to control invasive plants, enhance biodiversity, and protect the ecology of its parklands. This often involves the protection of water courses and water bodies and their respective watersheds. Not only do the volunteers actively participate in restoration and maintenance efforts, but they learn firsthand about their environment and ways to improve and protect it.
- The County also formed a Stormwater Committee to study and evaluate stormwater management practices throughout county government. The Departments of Planning; Public Works; Parks, Recreation and Conservation; Health; Environmental Facilities; and Transportation are all valuable participants on the Stormwater Committee.
- At the end of the County's fourth Phase II program permit year, this draft annual report was prepared. It is being presented for public review and comment. A special public informational meeting was held on May 16, 2007, during which the public may comment on the annual report.

3. Illicit Discharge Detection and Elimination

The County has continued its program to detect and eliminate illicit discharges into its stormwater drainage system. As part of this element, it has initiated an outfall inventory that locates and identifies County stormwater outfalls to surface waters. This information will be utilized by the County to facilitate the screening and identification of illicit discharges.

The County's public education program is tailored to reduce the adverse impacts of stormwater runoff and discharges through the use of household hazardous waste drop-off days for the public and where necessary, testing for illicit connections and the routine pumpout of County septic systems.

4. Construction Site Stormwater Runoff Control

The County has been evaluating whether any of its current and future construction projects will require construction runoff and construction waste controls. To this end, County personnel attended stormwater seminars and technical training workshops that, among other things, have included specific consideration of the control of runoff from construction sites. Some illustrative examples of the County's accomplishments related to this element also include:

- Design staff and consultants prepare erosion and sediment control plans in accordance with the NYSDEC guidelines for all projects designed by the County, regardless of whether the land disturbance exceeds the one-acre threshold. The NYSDEC's stormwater management best management practices are also incorporated into these designs. Language has been added to County contracts requiring compliance with the New York State Standards and Specifications for Erosion and Sediment Control.
- County staff attend training sessions on stormwater management and erosion and sediment control.
- The County has instituted a weekly erosion and sediment control inspection program for construction activities. Contractors and County staff inspect erosion and sediment controls and ensure necessary repairs are made as needed.
- A number of County technical/professional staff have professional education, experience, and credentials in stormwater management and erosion and sediment control. One staff member has received CPESC and CPSWQ certification, and additional staff members are in the process of obtaining of those certifications.

5. Post-Construction Stormwater Management

The County is now evaluating all its projects to determine if and which stormwater controls are needed on any new County projects, and as necessary, incorporate, by reference, New York State's "Stormwater Management Design Manual," and the latest County handbook

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on stormwater management. Some illustrative examples of the County's accomplishments related to this element include:

- Design staff and consultants incorporate the NYSDEC's stormwater management best management practices into site plans to the maximum extent practical. Language has been added to County contracts, requiring compliance with the New York State Standards and Specifications for Erosion and Sediment Control and the New York State Stormwater Management Design Manual.
- The County continues to develop resources, including both printed materials and training sessions, for both County and local government to utilize in the management of stormwater runoff and improvement of water quality.
- The County's aquatic habitat restoration program, conducted in partnership with the Soil and Water Conservation District, is now including a number of stormwater retrofit projects to improve stormwater runoff and demonstrate a variety of stormwater best management practices for others to replicate.
- The County, as part of the reconstruction of the parking area for the County Center in White Plains, will install a variety of stormwater management BMPs to create a stormwater demonstration park. Information on the various BMPs will be displayed at the site and made available on the County website.
- Learning from the stormwater management program initiated at the Westchester County Airport, the County has installed catch basin inserts at various County facilities. These inserts are designed to filter sediment and other pollutants from stormwater generated from parking surfaces and outdoor storage facilities.
- The County has created a capital project to retrofit existing facilities with stormwater best management practices to improve runoff and promote BMPs. The County will promote these efforts, encouraging others to replicate them at the local level.

- In 2003, the County Department of Public Works worked with the Department of Planning and Law Department to develop additional controls to be added to contract language, giving the County better control over contractors to enforce compliance with erosion and sediment control, and stormwater management standards.

6. Pollution Prevention/Good Housekeeping

The County has in the past and continues to ensure that pollution prevention and good housekeeping practices are integrated with its maintenance and operations activities at all its facilities and along its roads. This includes regular street sweeping, routine waste oil pickup for recycling, a Bronx River Parkway cleanup, regular catch basin cleaning, a number of parks cleanup events, required pesticide certification for appropriate County employees and contractors, and County parks regular garbage receptacle pickup and drop-off bins for recyclables. Some illustrative examples of the County's accomplishments related to this element include:

- Pickup of Waste Oil from County facilities for recycling.
- Sweeping of County Roadways and Complexes, such as the Valhalla Campus.
- Catch Basin Cleaning.
- Maintaining Recycling Bins at Major Parks and Other Facilities.
- Regular Pickups of Garbage Receptacles at County Facilities.
- Attendance at Highway O&M Seminars.
- Pesticide Use/Application Certification Training.

Annual Reporting

One of the major requirements of the State's SPDES General Permit for MS4s is to prepare a stormwater management plan annual report (SWMPAR) to demonstrate compliance with the permit and to report on progress made in the overall implementation of the plan.

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Over the last year, the County undertook the following activities to meet its obligations and document its progress in the implementation of the stormwater management plan:

- Quarterly audits of the implementation status of the six minimum program elements
- Training workshops related to stormwater management plan elements
- Prepared and released for public review a draft SWMPAR
- Scheduled and held a public meeting on the draft SWMPAR and other stormwater management issues

The required format and directions for preparing the SWMPAR were developed by NYSDEC and distributed to MS4s throughout the state in late February 2004.

The 2006-2007 SWMPAR that follows was prepared in accordance with NYSDEC's February 2004 format, guidance and direction. As required by the General Permit and based on the progress made in this first year of implementation, the overall stormwater management program is on schedule and is expected to be fully implemented and operational by the year 2008.

1.0 SIX MINIMUM CONTROL MEASURES

Stormwater Management Plan Annual Report – Six Minimum Measures (March 10, 2006 to March 9, 2007)

Municipality Name Westchester County SPDES Number NYR20A128

MINIMUM MEASURE 1: Public Education and Outreach in Stormwater Impacts

A. Narrative Overview: As part of the implementation of the County’s Stormwater Management Plan (SWMP) filed in March 2003, and in accordance with Section IV.C.1 of the SPDES General Permit for Stormwater Discharges, the County has initiated an ongoing public education and outreach program. The program is aimed at educating and informing the public of the impacts of stormwater discharges to watercourses and waterbodies, the pollutants of concern and their potential sources, and steps the public can take to reduce such discharges and pollution. Measurable goals for the public education and outreach program are listed below.

B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
TECHNIQUES	YES	NO	
Plan and conduct an ongoing public education and outreach program (required)	X		Program in place for replacing 100% of damaged/stolen H2OK signs. None needed replacing during the 2006 reporting period.
			The County co-sponsors and participates in two land use symposia for students each year, which includes environmental and water quality issues. The combined symposia involve over 200 students.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
TECHNIQUES	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Plan and conduct an ongoing public education and outreach program (required)	X		Program in place for replacing 100% of damaged/stolen H ₂ O _K signs. None needed replacing during the 2006 reporting period.
			100% of new catch basins installed (21) include “drains to watercourse” marker/stencil.
			In 2004, the County signed on to the Adopt-A-Waterway Program, a national program targeted at stormwater education. The program is beginning to grow, resulting in signage and resources for public education and outreach efforts. In 2006, the program raised over \$10,000, part of which was used to purchase over 3,500 storm drain markers to be installed throughout the county in late spring of 2007.
			Continue replacement of damaged/stolen signs.
			Continue to install new catch basins with “drains to watercourse” marker.
			Continue to develop Adopt-A-Waterway program and coordinate activities with other outreach efforts.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
TECHNIQUES	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Plan and conduct an ongoing public education and outreach program (required) (continued)	X		The County maintains an updates a repository of information on stormwater and water quality. The Department of Planning provides resources for municipal officials, residents, and design professionals. The Department of Public Works maintains a repository of technical resources for its staff and consultants.
			The County attends environmental fairs and events in an effort to promote information on stormwater quality. The Department of Planning recently purchased professional displays and banners to support this effort. Additional materials will be created in 2007 as part of the education and outreach grant. The Department of Parks has existing exhibits. The County ran exhibits at six major events in 2006, at which the combined number of residents that attended was in the thousands.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
TECHNIQUES	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Plan and conduct an ongoing public education and outreach program (required) (continued)	X		Participation in seminar/workshops as “speaker’s bureau” events. County staff are regarded as technical experts in the field and often are invited to speak at other organizations events, meetings, and presentations. In 2006, County staff spoke at or participated in 6 such events.
			Stenciling 100% of new catch basins that were appropriate for stenciling or installing with curb boxes with marker. Provide stencils to requesting entities. In 2006, over 50 new catch basins with “Drains to River” logo were installed. Over 100 stencils and catch basin markers were distributed.
			In 2006, over 10,000 brochures on water quality and pollution prevention were distributed to local libraries, town halls, and County parks and public facilities throughout the county.
			Continue to participate in and contribute to “speakers bureau” events. Continue to promote County staff as technical experts. Develop presentations highlighting stormwater problems and County programs and efforts.
			Continue to apply catch basin stenciling and provide stencils to those who request them.
			Continue to create and distribute information on stormwater and water quality, including the development of targeted information for 303(d) listed waterbodies.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
TECHNIQUES	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Plan and conduct an ongoing public education and outreach program (required) (continued)	X		The County has prepared a video on aquatic habitat degradation and restoration. The video has been distributed to local municipalities, libraries, and environmental groups. The video has also been shown to municipal officials and staff and the professional community and is available on the County's website and on-demand cable channel.
			The County has prepared and presented the stormwater program and stormwater issues to the County Planning Board, County Commissioners, the Soil and Water District Board of Directors, the Board of Legislators Committee on the Environment, and others.
			Continue to distribute the video and explore opportunities to expand on the video.
			Continue to develop the County's Stormwater Management Plan and educate municipal officials on stormwater issues and efforts.

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MINIMUM MEASURE 2: Public Involvement/Participation

A. Narrative Overview: In accordance with Section IV.C.2 of the SPDES General Permit for Stormwater Discharges, the County continues to encourage public involvement and participation in the development/improvement of its Stormwater Management Plan and other water quality protection efforts. In addition to publicizing and encouraging comments on the Annual Report, measurable goals for the public involvement/participation program include initiating the development of several volunteer programs and public participation initiatives.

B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
TECHNIQUES	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Public notice and access to documents and information (required)	X		A first draft SWMPAR is published on the County’s website and made available for public review and comment.
Public presentation and comments received on SWMP and annual report (required)	X		The County held a public information meeting on May 16, 2007, to receive comments on the draft SWMPAR. There were no comments received on the draft plan, and no one attended the public information meeting.
Public involvement/participation program(required)	X		“Adopt a Road” cleanups were conducted at over 10 locations, involving over 100 persons in total.
			“Pitch in for Parks” cleanups at five County parks, involving over 300 volunteers in total.
			Beach cleanups were conducted at 3 beaches, involving over 100 volunteers in total.
			Continue “Adopt a Road” cleanup program.
			Continue “Pitch in for Parks” program.
			Continue beach cleanup days.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
TECHNIQUES	YES	NO	
Public involvement/ participation program (required) (continued)	X		Continue this activity. Coordinate efforts and communication among watershed advisory committees.
			<p>If YES, describe what measurable goals that were achieved and other accomplishments.</p> <p>If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.</p>

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
TECHNIQUES	YES	NO		
Public involvement/ participation program (required) (continued)	X		County staff participate on a number of boards and committees that deal with water quality and pollution prevention. This includes various committees of the Long Island Sound Study, focused on controlling nonpoint source pollution and habitat restoration, and the Saw Mill River Coalition, focused on river and watershed issues associated with the Saw Mill River.	Continue this involvement.
			The Department of Planning runs the Citizens Volunteer Monitoring Program, involving over 100 volunteers annually to monitor water quality in streams throughout county. This program also includes support of lake monitoring programs.	Continue volunteer monitoring program. Expand program to include more educational programs and opportunity to involve volunteers in watershed issues.
			The County utilizes the support of hundreds of volunteers in its vine cutters program to control invasive vines that often threaten healthy buffer habitats of streams and waterbodies, and bio-blitz to learn more about much of the habitat associated with watercourses and waterbodies on parks properties in the county.	Continue volunteer programs to collect data and perform maintenance activities on watercourse and waterbody buffer habitats.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
TECHNIQUES	YES	NO		
Public involvement/ participation program (required) (continued)	X		The County supports and works closely with the Grassroots Healthy Lawn program to build public support for low-impact lawn maintenance practices and materials.	Continue to support this program and similar programs to involve public and build public support.
			The County also coordinated the development of watershed advisory committees made up of representatives from municipalities. To date, watershed advisory committees established in 6 watersheds throughout county. In 2005, the Bronx River Watershed Coalition was formed, with over 20 members from the 14 local municipalities, state agencies, and environmental organizations. This group has prepared a watershed management plan, which will be released in 2007 and includes a number of specific recommendations to improve stormwater runoff quality.	Continue this activity. Coordinate efforts and communication among watershed advisory committees.
Contact person identified (required)	X		David Kvinge, Director of Environmental Planning, has been identified as the stormwater contact person.	Maintain a stormwater contact person.

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MINIMUM MEASURE 3: Illicit Discharge Detection and Elimination

A. Narrative Overview: In accordance with Section IV.C.3 of the SPDES General Permit for Stormwater Discharges, the County initiated a program to detect and eliminate illicit discharges into the MS4. The program includes ongoing development of a map showing locations of outfalls and waters that receive discharges from those outfalls. Enforcement procedures and appropriate measures for implementing them are in place, and will be continually evaluated to determine their effectiveness and whether or not revisions or modifications are necessary.

B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
ACTIVITIES	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Outfall mapping (required)	X		County has completed an inventory of approximately 174 miles of County roadway outfalls (453 outfalls). Continued verification of stormwater outfalls using GPS for incorporation of data into County's GIS. GIS mapping of outfalls nearing completion. Also beginning to incorporate visible catch basins and other structures.
Illicit discharges prohibited (required)	X		Illicit discharges are prohibited and are identified as necessary through routine screening.
Public, employees, businesses informed of hazards from illicit discharges (required)	X		Informed public through repository, web page and public notices regarding household chemical cleanup days.
			Replace 100% of the damaged or stolen signs. No signs needed replacement in 2006.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
ACTIVITIES	YES	NO		
Public, employees, businesses informed of hazards from illicit discharges (required) (continued)	X		Sponsored household chemical cleanup events on six weekends during 2006. Between 100 and 200 residents attended each day of the events.	Continue household chemical cleanup events.
			Employees at County facilities are trained annually about illicit discharges and the appropriate disposal of materials.	Continue training of appropriate County personnel.
Illicit discharges identified (required)	X		Perform septic system dye testing in 100% of cases where it was necessary. No dye testing was needed in 2006.	Continue septic system dye testing.
			Septic tanks at all County parks and facilities are routinely inspected and pumped as needed.	Continue septic tank pumpouts.
			The County Departments of Health and Environmental Facilities assist local municipalities and regional organizations in the investigation of illicit discharges in connection with Byram River Study and as requested by municipalities.	Continue as necessary.

Municipality Name: **Westchester County**
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MINIMUM MEASURE 4: Construction Site Runoff Control

A. Narrative Overview: In accordance with Section IV.C.4 of the SPDES General Permit for Stormwater Discharges, the County has developed a program to reduce pollutants from stormwater runoff from construction activities that disturb. At a minimum, the protection will be equivalent to the requirements of the General Permit for Construction Activities (GP-02-01). BMPs also included development of a mechanism for responding to complaints and reviewing local requirements.

B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
REQUIREMENTS	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Require erosion and sedimentation controls through an ordinance or other regulatory mechanism (required)	X		Provide County comments on development plans for local projects subject to or requested to have County review.
			Provided information/literature on construction controls in the County’s stormwater repository for use by interested parties, including County personnel, consultants and contractors.
			Standard contract language requires compliance with NYS Standards and Specifications for Erosion and Sediment Control.
Provide opportunity for public comment on construction plans (required)	X		County provides for consideration of information submitted by the public and responses involving construction site runoff.
			Continue plan review for all appropriate projects.
			Update construction controls repository.
			Continue to enforce provisions of contract language.
			Continue this activity.

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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
REQUIREMENTS	YES	NO		
Require construction site plan review (required)	X		All County construction site plans are reviewed for consideration of erosion and sediment controls and/or required permitting.	Continue this activity.
Require overall construction site waste management (required)	X		Proper site waste management is required as part of standard contract language.	Continue this activity.
Site inspection and enforcement (required)	X		Through the County's inspection program, construction site inspection and enforcement is performed regularly by County personnel or contractors to ensure proper installation and maintenance of erosion and sediment controls.	Continue this activity.
Education and training of construction site operators (required)	X		The County has sponsored and participated in two technical seminars in 2006 that included topics on runoff controls at construction sites. The County inspection program also involves regular training of County design and inspection staff. One staff member has received CPESC certification and others are seeking same.	Continue this activity.

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MINIMUM MEASURE 5: Post-Construction Stormwater Management

A. Narrative Overview: In accordance with Section IV.C.5 of the SPDES General Permit for Stormwater Discharges, the County is implementing a program that includes incorporation of structural and/or non-structural best management practices that will reduce the discharge of pollutants to the maximum extent possible. The County has also initiated evaluations of types of best management practices to be incorporated into capital projects to address post-construction runoff from new development and re-development projects.

B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
REQUIREMENTS	YES	NO	
Assess existing conditions throughout the MS4 and identify appropriate management practices to reduce pollutant discharge to the maximum extent practicable (required)	X		Continue this activity. Undertake an analysis to prioritize efforts.
			<p>If YES, describe what measurable goals that were achieved and other accomplishments.</p> <p>If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.</p>

Municipality Name: **Westchester County**
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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
REQUIREMENTS	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Regulate post-construction runoff from development through an ordinance or other regulatory mechanism (required)	X		The County has modified its standard contract language to require compliance with the New York State Stormwater Management Design Manual on all County projects.
Develop management practice inspection and maintenance program (required)	X		The County's stormwater information repository includes information related to management practices involving inspections and maintenance of runoff controls.
			Continue this activity.
			Continue this activity. Develop a manual for operation and maintenance of stormwater BMPs.

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MINIMUM MEASURE 6: Pollution Prevention/Good Housekeeping

A. Narrative Overview: In accordance with Section IV.C.6 of the SPDES General Permit for Stormwater Discharges, the County is implementing an operations and maintenance (O&M) program that will reduce and prevent the discharge of pollutants to the maximum extent from municipal activities including, but not limited to, park and open space maintenance, fleet and building maintenance, stormwater systems maintenance, roadway maintenance. The O&M program under development includes training components. Other BMPs included street sweeping, inspections and cleaning out of catch basins, and continuation of the County’s solid waste management and recycling programs.

B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.	
REQUIREMENTS	YES	NO		
Prevent discharge of pollutants from municipal operations (required)	X		100% of the County waste oil at its facilities is picked up for recycling.	Continue this activity.
			Road sweeping was performed on ±174 miles of County roads, including the roads with the County’s Valhalla Campus and the Bronx River Parkway.	Continue this activity.
			100% of catch basins were inspected and cleaned, if needed.	Continue this activity.
			100% of trash and recycling receptacles maintained.	Continue this activity.
				For 2007, the County will prepare an inventory of County facilities and sites and perform audits at the Grasslands campus of stormwater pollution prevention practices and procedures.

Municipality Name: **Westchester County**
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B. Implementation of Best Management Practices			C. Activities Planned for Upcoming Year
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		If YES, describe what measurable goals that were achieved and other accomplishments. If NO, and the item was checked off on your NOI, describe why the task was not accomplished and, if still a measurable goal, list in column C.
REQUIREMENTS	YES	NO	Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
Follow DEC NPS Management Practices catalog, or equivalent (required)	X		County staff participated in pesticide certification training program. Several employees are licensed.
			Achieved a goal of 100% pest management compliance.
Conduct employee pollution prevention training (required)	X		Participated in at least 10 highway officials O&M seminars.

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SPDES Number: **NYR20A128**

2.0 PUBLIC COMMENTS

A public information meeting was held in Room 420 of the Michaelian Office Building at 148 Martine Avenue in White Plains at 7:00 PM on May 16, 2007. Notice of the public information meeting was published in the Journal News on March 24, 2007 and on the County's website. An April 13, 2007 deadline was set for the receipt of written comments and included in the meeting notice. The Draft Annual Report was posted on the County website, along with the Notice of Intent and prior Annual Reports. In addition, the County promoted the annual report and public information meeting through its contact network of local municipalities, environmental and other interested organizations, and the professional community. No inquiries or comments were received by mail, telephone, email, or in person, and there were no attendees at the public information meeting. The County will continue to expand upon the information included in its annual report and pursue ways to more effectively outreach to the public and local municipalities within Westchester County.

Westchester County Stormwater Management Program
2006 Annual Report

APPENDIX A

COPY OF MUNICIPAL COMPLIANCE CERTIFICATION FORM



**SPDES General Permit for Stormwater Discharges from
Small Municipal Separate Storm Sewers (MS4s), Permit No. GP- 02-02
Municipal Compliance Certification**

Section A. Small MS4 Owner/Operator Information		Annual Report for the year ending: March 9, <u>2007</u>		
SPDES No.: NYR20A128		MS4 Name: County of Westchester		
Contact Name: David Kvinge		Contact Title: Director of Environmental Planning	Phone No.: (914) 995-2089	
Mailing Address:	Street or P.O. Box: 148 Martine Avenue	City: White Plains		
	County: Westchester	State: NY	Zip Code: 10601	
Is any of this information new or changed since your last certification? (Please circle one answer) Yes <input checked="" type="radio"/> No				
Section B. Watershed and MS4 Partnership Information (Please circle one answer for each question)				
1. a) Have you received notification from the Department that you are subject to the special conditions in Part III.B. of the permit? Yes <input checked="" type="radio"/> No				
b) If you answered yes to 1a), have all necessary changes been made to the Stormwater Management Program (SWMP) to ensure compliance with Part III.B. of the permit? Yes No <input checked="" type="radio"/> N/A				
2. a) Have any new MS4 partnerships developed, where another municipality will be responsible for carrying out a portion of your municipality's SWMP? If yes, please specify the municipality and the activity. Yes <input checked="" type="radio"/> No				
b) Municipality: _____				
c) Activity: _____				
d) Has a legally binding intermunicipal agreement been executed? If yes, please include a copy of the agreement as an appendix to the Stormwater Management Program Annual Report (SWMPAR). Yes No <input checked="" type="radio"/> N/A				
Section C. Evaluation of Compliance				
1. For each of the six minimum measures listed below, indicate if your program has made steady progress toward full implementation <i>and</i> has achieved all measurable goals scheduled to be completed this reporting period. (Please circle one answer for each question)				
	<u>Steady Progress</u>		<u>Goals Achieved</u>	
a) Public education	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
b) Public participation/involvement	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
c) Illicit discharge detection and elimination	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
d) Construction site stormwater runoff control	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
e) Post-construction stormwater management	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
f) Pollution prevention/good housekeeping for municipal operation	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
2. Does your SWMP cover all areas, automatically and additionally designated, pursuant to 40 CFR 122.32(a), under your jurisdiction? <input checked="" type="radio"/> Yes No				
3. Have adequate resources been allocated to fully implement your SWMP no later than January 8, 2008? <input checked="" type="radio"/> Yes No				



**SPDES General Permit for Stormwater Discharges from
Small Municipal Separate Storm Sewers (MS4s), Permit No. GP- 02-02
Municipal Compliance Certification, Page 2**

SPDES No.: NYR20A128	MS4 Name: COUNTY OF WESTCHESTER
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Section D. Explanation of Compliance Evaluation

If you answered No to question 1b in Section B or to any question in Section C, indicate the question in the small box in the upper left hand corner, and provide a brief explanation, including action being taken to address the problem, in the space provided. With respect to any of the six minimum measures, your attached Stormwater Management Program Annual Report (SWMPAR) must include a detailed explanation of why implementation or compliance is not being achieved and what actions have been taken to ensure compliance with each minimum measure. Indicate where this explanation can be found in the SWMPAR. If necessary, attach extra sheets following the same format.

Question #	Explanation
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Question #	Explanation
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Question #	Explanation
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Section E. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print Name: **Ralph Butler, P.E.** Title: **Commissioner, DPW**

Signature: *Ralph Butler* Date: **3/30/07**

The MCC form must be signed by either a principal executive officer or ranking elected official, or duly authorized representative of that person as described in Part VI.I.2. of the permit. Send this form to both the DEC Regional Office (see list of addresses in the instructions) and the DEC Central Office (NYSDEC, 625 Broadway, Division of Water - 4th Floor, Albany, NY 12233-3505)