DRAFT

PHASE II STORM WATER MANAGEMENT PROGRAM

ANNUAL REPORT

March 10, 2003 – March 9, 2004

PREPARED FOR

VILLAGE OF CROTON-ON-HUDSON CROTON-ON-HUDSON, NEW YORK

PREPARED BY

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS WHITE PLAINS, NEW YORK

VILLAGE OF CROTON-ON-HUDSON

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TABLE OF CONTENTS

Section	Title	Page
S.0	EXECUTIVE SUMMARY	S -1
1.0	SIX MINIMUM MEASURES	1-1
	Minimum Measure 1: Public Education and Outreach Minimum Measure 2: Public Involvement/Participation Minimum Measure 3: Illicit Discharge Detection and Elimination Minimum Measure 4: Construction Site Storm Water Runoff Control Minimum Measure 5: Post-construction Storm Water Management Minimum Measure 6: Pollution Prevention/Good Housekeeping	

S.0 EXECUTIVE SUMMARY

In March 2003, the Village submitted to the New York State Department of Environmental Conservation (NYSDEC) a Notice of Intent (NOI) for coverage under the State Pollution Discharge and Elimination System (SPDES) General Permit (GP-0202) for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4s). This action was required as part of the New York State's overall Phase II Storm Water Management Program. The NOI outlined the elements of the Village's storm water management program and the "measurable goals" associated with implementation of the program's best management practices (BMPs). In March 2003, NYSDEC acknowledged receipt of the Village's NOI and assigned an MS4 SPDES permit number to the Village (NYR20A046).

As required, the Village's NOI/plan includes the following six minimum storm water management control measures:

- Public education and outreach
- Public participation and involvement
- Illicit discharge detection and elimination
- Construction site storm water runoff control
- Post-construction storm water management
- Pollution prevention/good housekeeping for municipal operation

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

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

• Audits of the implementation status of the six minimum program elements

- Training workshops related to storm water management plan elements
- Prepared and released for public review a <u>draft</u> SWMPAR
- Scheduled a public meeting on the <u>draft</u> SWMPAR and other storm water 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 2003-2004 SWMPAR herein 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 storm water management program is on schedule and is expected to be fully implemented and operational by the year 2008.

1.0 SIX MINIMUM MEASURES SECTION

Storm Water Management Plan Annual Report – Six Minimum Measures (March 10, 2003 to March 9, 2004)

Municipality Name	Incorporated Village of Croton-on-Hudson	SPDES Number	NYR20A046	
-				

MINIMUM MEASURE 1: Public Education and Outreach in Stormwater Impacts

A. Narrative Overview: As part of the implementation of the Village's Storm Water Management Plan (SWMP) filed in March 2003, and in accordance with Section IV.C.1 of the SPDES General Permit for Storm Water Discharges, the Village initiated an ongoing public education and outreach program. The program is aimed at educating and informing the public of the impacts of storm water discharges on waterbodies, the pollutants of concern and their sources, the steps the public can take to reduce such discharges and pollution. Measurable goals for the SWMPs Year-1 best management practices (BMPs) for the public education and outreach program included setting up a storm water repository, display case, website and preparation of articles for Village publication.

B. Implementation of I	Best Ma	C. Activities Planned for Upcoming Year		
			If YES, describe what measurable goals that	
Type in the			were achieved and other accomplishments.	
management				
practices selected in			If NO, and the item was checked off on your	
your NOI and any	·	done	NOI, describe why the task was not	Describe SWMP activities that are planned
additional ones that		e past	accomplished and, if still a measurable goal,	for the next year and changes to selected
you worked on.	yea		list in column C.	management practices/measurable goals.
TECHNIQUES	YES	NO		
Plan and conduct an			A storm water information repository, display	Update repository, website, and display case as
ongoing public			case and website have been set up at Village Hall	necessary.
education and			that also includes posters as well as notices for	
outreach program	Х		household chemical clean-up days.	
(required)				
_			Storm water articles have been prepared and	Publish additional storm water articles.
			published in the monthly Village newsletter.	

Municipality Name:Incorporated Village of Croton-on-HudsonSPDES Number:NYR20A046

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MINIMUM M EASURE 2: Public Involvement/Participation

A. Narrative Overview: In accordance with Section IV.C.2 of the SPDES General Permit for Storm Water Discharges, the Village designed and conducted a public involvement/participation program. The key element of the program was to prepare an annual report and municipal compliance certification, both of which were subject to public review. Other measurable goals for the public involvement/participation program included initiating the development of a volunteer river clean-up day and a storm water mailing list.

B. Implementation of	Best Ma	anagen	C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	in the	done e past ar?	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 notice and access to documents and information (required)	X		A storm water mailing list and a draft SWMPAR have been prepared and made a variable for public review and comment.	Publish notice and submit annual report for public review.
Public presentation and comments received on SWMP and annual report (required)	X		The Village has scheduled an annual meeting for May 3, 2002, to present and receive comments on draft SWMPAR.	Issue a public notice and hold annual meeting on draft SWMPAR.
Public involvement/ participation program(required)	X		The Village has initiated development of a river clean-up day in conjunction with Earth Day and coordination of the Phase II program with the Village's Conservation Advisory Council. Storm drain labeling is coordinated with Village volunteers.	Continue to work with the Conservation Advisory Council and Village volunteers.

B. Implementation of	Best Ma	anagen	C. Activities Planned for Upcoming Year	
			If YES, describe what measurable goals that	
Type in the			were achieved and other accomplishments.	
management				
practices selected in			If NO, and the item was checked off on your	
your NOI and any	Any	done	NOI, describe why the task was not	Describe SWMP activities that are planned for
additional ones that	in the	e past	accomplished and, if still a measurable goal,	the next year and changes to selected
you worked on.	you worked on. year?		list in column C.	management practices/measurable goals.
TECHNIQUES	YES	NO		
Contact person			Kenneth Kraft, Supt. Public Works, has been	
identified (required)	Х		identified in NOI as the storm water contact	Maintain a storm water contact person.
			person.	

MINIMUM MEASURE 3: Illicit Discharge Detection and Elimination

A. Narrative Overview: In accordance with Section IV.C.3 of the SPDES General Permit for Storm Water Discharges, the Village 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 have been discussed and appropriate measures for implementing them are being developed.

B. Implementation of	Best Ma	anagen	C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that	Any	done e past	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,	Describe SWMP activities that are planned for the next year and changes to selected
you worked on.	yea	ar?	list in column C.	management practices/measurable goals.
ACTIVITIES	YES	NO		
Outfall mapping (required)	X		Summer intern performed field work to map outfalls and other storm water infrastructure. Mapping was incorporated into Village's GIS.	Continue storm water system mapping and GIS update.
Illicit discharges prohibited (required)	X		Illicit discharges are prohibited and dye testing is performed as needed.	Enforce prohibition of illicit discharges. Adopt drainage ordinance as appropriate.
Public, employees, businesses informed of hazards from illicit discharges (required)	X		Informed public and employees through articles and public meeting. Informed employees through training meetings/sessions.	Continue public information program on illicit discharges, storm drain marking program and mapping, and surveillance and enforcement of illicit discharges into the storm water system.
Illicit discharges identified (required)	Х		Published illicit discharge information notice.	Continue storm water system mapping and evaluate a stenciling program.

MINIMUM M EASURE 4: Construction Site Stormwater Runoff Control

A. Narrative Overview: In accordance with Section IV.C.4 of the SPDES General Permit for Storm Water Discharges, the Village is developing a program to reduce pollutants from storm water runoff from construction activities that disturb one or more acres of land. At a minimum, the protection will be equivalent to the requirements of the General Permit for Construction Activities (GP-02-01). Year 1 BMPs also included development of a mechanism for responding to complaints and reviewing local requirements.

B. Implementation of	Best Ma	anagen	C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	in the yea		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 erosion and sedimentation controls through an ordinance or other regulatory mechanism (required)	X		Initiated the evaluation of existing ordinances and other local requirements related to erosion and sedimentation controls.	Continue to evaluate model ordinances. Adopt/revise ordinances as appropriate.
Provide opportunity for public comment on construction plans (required)	Х		Village policy provides for consideration of comments submitted by the public or subdivisions and site plans.	Continue this activity.
Require construction site plan review (required)	Х		Construction site plan review is required and performed by the Village and includes consideration of storm water.	Continue this activity.
Require overall construction site waste management (required)	X		Construction activity, site inspection and enforcement is required and performed by the Village and includes consideration of storm water.	Review ordinances for construction controls.

B. Implementation of	Best Ma	anagen	C. Activities Planned for Upcoming Year	
			If YES, describe what measurable goals that	
Type in the			were achieved and other accomplishments.	
management				
practices selected in			If NO, and the item was checked off on your	
your NOI and any		done	NOI, describe why the task was not	Describe SWMP activities that are planned for
additional ones that	in the	e past	accomplished and, if still a measurable goal,	the next year and changes to selected
you worked on.	yea	ar?	list in column C.	management practices/measurable goals.
REQUIREMENTS	YES	NO		
Site inspection and			Site inspection and enforcement is required by	
enforcement	Х		Village and includes consideration of storm	Continue this activity.
(required)			water.	
Education and			Required as part of contractor employee	
training of	Х		ongoing proper operation and maintenance	Continue this activity.
construction site	Λ		training.	Continue uns activity.
operators (required)				

MINIMUM MEASURE 5: Post-Construction Stormwater Management

A. Narrative Overview: In accordance with Section IV.C.5 of the SPDES General Permit for Storm Water Discharges, the Village is implementing a program that includes a combination of structural and/or non-structural management practices appropriate for the community that will reduce the discharge of pollutants to the maximum extent possible. The Village has initiated assessments of conditions and is evaluating ordinances. Discussions have begun on regulatory mechanisms to address post-construction runoff from new development and redevelopment projects.

B. Implementation of	Best Ma	anagen	C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	in the	done e past ar?	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		
Assess existing conditions throughout the MS4 and identify appropriate management practices to reduce pollutant discharge to the maximum ext ent practicable (required)	X		Initiated the assessment/evaluation of conditions and ordinances related to the appropriateness of management practices.	Evaluate alternative model ordinance provisions.
Regulate post- construction runoff from development through an ordinance or other regulatory mechanism (required)	X		Evaluated ordinances and other regulatory conditions and mechanisms on post construction runoff.	Evaluate model ordinance and pass ordinance as appropriate.

B. Implementation of	Best Ma	anagen	nent Practices	C. Activities Planned for Upcoming Year
			If YES, describe what measurable goals that	
Type in the			were achieved and other accomplishments.	
management				
practices selected in			If NO, and the item was checked off on your	
your NOI and any	Any	done	NOI, describe why the task was not	Describe SWMP activities that are planned for
additional ones that	in the	e past	accomplished and, if still a measurable goal,	the next year and changes to selected
you worked on.	u worked on. year?		list in column C.	management practices/measurable goals.
REQUIREMENTS	YES	NO		
Develop management			Addressed as part of the ongoing development	
practice inspection			of the Village's BMP document for Village	
and maintenance	Х		facilities and initiated BMP (e.g.,	Finalize BMP procedures document.
program (required)			sedimentation pond) mapping as part of the	
			GIS.	

MINIMUM M EASURE 6: Pollution Prevention/Good Housekeeping

A. Narrative Overview: In accordance with Section IV.C.6 of the SPDES General Permit for Storm Water Discharges, the Village 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, storm water systems maintenance, roadway maintenance. The O&M program under development includes a training component. Other Year 1 BMPs included street sweeping, development of a BMP for facilities document, inspections and cleaning out of catch basins and continuation of the Village's solid waste management and recycling programs.

B. Implementation of	Best Ma	anagen	C. Activities Planned for Upcoming Year	
Type in the management practices selected in your NOI and any additional ones that you worked on.	in the	done e past ar?	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		
Prevent discharge of pollutants from municipal operations (required)	x		Pollution prevention is accomplished through ongoing oil recycling programs for Village operations; catch basin inspection and cleaning (50/yr.); 100 miles of street sweeping; 100% road salt covering; and litter basket pickups twice per week.	Continue pollution prevention activities.
Follow DEC NPS management Practices catalog, or equivalent (required)	X		Initiated development of BMPs for facilities document and compiled a series of USEPA/NYSDEC fact sheets.	Finalize BMP procedures document.
Conduct employee pollution prevention training (required)	Х		Conducted employee training related to pollution prevention, including spills.	Continue periodic employee spill and pollution prevention training.