

### DELAWARE COUNTY STREAM CORRIDOR MANAGEMENT PROGRAM

A Cooperative Program Delaware County Soil and Water Conservation District New York City Department of Environmental Protection Delaware County Planning Department



# West and East Branch Delaware River Stream Corridor Management Plan

# **Action Plan**

The following pages is the Two Year Action Plans for the West and East Branches of the Delaware River. A colored piece of paper separates the West Branch Action Plan from the East Branch Action Plan. An applicant may reference these Action Plans in their grant proposal from either the West Branch, East Branch, or both that best fits their proposals.

For technical question or assistance, contact the Delaware County Soil and Water Conservation District's Stream Program Coordinator Graydon Dutcher at (607) 865-5223.

Any questions or if assistance is needed in writing the grant proposals, contact the Delaware County Planning Department at (607) 746-2944.

# DELAWARE COUNTY STREAM CORRIDOR MANAGEMENT PROGRAM TWO-YEAR ACTION PLAN FOR THE WEST BRANCH DELAWARE RIVER CANNONSVILLE RESERVOIR BASIN

May 2011 - April 2013



### **Table of Contents**

### 1. Introduction

### 2. Recommendations

**RECOMMENDATION #1** Integration of the Stream Corridor Management Program and Watershed Agricultural Program **RECOMMENDATION #2** Provide Technical Support to the USDA Conservation Reserve Enhancement Program (CREP) **RECOMMENDATION #3** Enhance the Implementation of CREP on New York City Watershed Cropland and Explore Long-Term CREP Contracts **RECOMMENDATION #4** Implement a Variable Width Riparian Buffer Pilot Program **RECOMMENDATION #5** Participation with the Catskill Watershed Corporation **RECOMMENDATION #6** Stream Corridor Management Plans for Non-Agricultural Riparian Landowner Stewardship **RECOMMENDATION #7** Stream Gravel Deposition Issues **RECOMMENDATION #8** Streamline Stream Work Permitting **RECOMMENDATION #9** Assist Municipalities with Culvert Sizing and Design **RECOMMENDATION #10** Participation with the Delaware County Action Plan (DCAP) **RECOMMENDATION #11** Expand Public Education and Outreach Efforts **RECOMMENDATION #12** Geomorphic Assessments at Bridges and Culverts **RECOMMENDATION #13** Flood Hazard Mitigation and Flood Recovery **RECOMMENDATION #14** Continuation of Geomorphic Research/Assessments **RECOMMENDATION #15** Seek Funds Necessary for Construction of Walton Streambank Stabilization Projects **RECOMMENDATION #16** Prioritization of Identified Stream Intervention Projects **RECOMMENDATION #17** Develop a Process for Updating the West Branch Delaware River Stream Corridor Management Plan

#### **Introduction:**

A comprehensive Stream Corridor Management Plan (SCMP) for the West Branch Delaware River was completed in 2005 by the Delaware County Soil & Water Conservation District (DCSWCD) Stream Corridor Management Program, New York City Department of Environmental Protection (NYC DEP), and Delaware County Planning Department (DCPD). The DCSWCD in partnership with DCPD and NYCDEP, are implementing the plan's 17 recommendations. This Two-Year Action Plan for the West Branch Delaware River outlines action items that are related to the implementation of the SCMP recommendations and the overall program development.

During the development of the West Branch Delaware River SCMP, a Project Advisory Committee (PAC) was formed to represent the interests of local officials, residents, businesses, and agencies living and working in the Cannonsville Reservoir watershed. The PAC assisted in the preparation of the SCMP recommendations and is now working collaboratively to guide the Stream Corridor Management Program (SCMPr) in the implementation of the recommendations. Since completion of this plan, the program has also completed a SCMP for the East Branch of the Delaware River (2007) and was assisted by a separate PAC. Since the completion of the East Branch Delaware SCMP the two PAC's have merged. This joint PAC provides review and comment on program development and projects in both West and East Branch basins to the SCMPr. The PAC is assisted by four sub-committees with the following focus: Fisheries and Recreation, Education and Outreach, Highway Infrastructure, and Floodplain Management. These sub-committee contribute their expertise to furthering the fulfillment of the relevant recommendations of the SCMP.

The implementation of the recommendations are accomplished through the following program elements;

#### **Delaware Watershed Stream Management Implementation Grant Program**

The Delaware Watershed Stream Management Implementation Grant Program (SMIP), established in 2010, funds eligible stream and floodplain construction projects and programs that advance the recommendations for municipalities that have adopted the Stream Corridor Management Plan and signed a Memorandum of Agreement with the Delaware County Soil and Water Conservation District.

#### Catskill Streams Buffer Initiative (CSBI) funding

Catskill Stream Buffer Initiative (CSBI), established in 2009, works with local streamside landowners to provide assistance to enhance and maintain riparian buffers. Technical assistance includes; landowner consultation, landowner riparian corridor management plans that include operation and maintenance plans, and native vegetative plantings to establish or enhance riparian buffers.

#### **Demonstration project funding**

Demonstration projects utilize new and innovative stream management techniques with educational value. These projects make use of fluvial geomorphic principles and the scale of the project may vary from localized activities such as stream bank stabilization to more extensive stream restoration projects.

#### **Conservation Resource Enhancement Program (CREP) Assistance**

Provide assistance for the implementation of Conservation Resource Enhancement Program (CREP) in areas where streambank stability issues make those lands ineligible for buffer enhancement under the CREP's guidelines.

#### Stream Corridor Management Program technical assistance and general support

Stream Corridor Management Program staff from each of the partnering agencies (the Delaware County Soil and Water Conservation District, New York City Department of Environmental Protection and Delaware County Planning Department) provide technical, planning and education support for a range of stakeholders on water quality related issues such as floodplain management, flood response and recovery, debris and infrastructure management, property protection, aquatic habitat and recreation concerns. Support can include assessments, plans, designs, training workshops and general advice to stakeholders.

The following recommendations from the West Branch Delaware SCMP are related to one or more of these elements and draw upon the respective program staff and financial resources. The separate Two Year Action Plan for the East Branch Delaware River SCMP also directs the activities of the program and commitment of funds for projects and programs in the Pepacton basin.

# Recommendation 1: Integration of the Stream Corridor Management Program and the Watershed Agricultural Program

The New York City Department of Environmental Protection (NYCDEP), Stream Corridor Management Program (SCMPr) and Watershed Agricultural Council (WAC) should develop and implement mechanisms to comprehensively integrate stream corridor management and stewardship into the Whole Farm Planning and implementation process.

- 1. Provide Stream assessment training to Watershed Agricultural Program planning and technical staff to identify and classify impaired stream segments during the development or revision of individual Whole Farm Plans.
  - June 2011 Workshop, SCMPr Staff
- 2. Develop and implement a formal protocol for providing technical assistance to the Watershed Agricultural Program
  - June 2011, DC SWCD SCMPr Coordinator, DCSWCD Executive Director, and DCSWCD Technical Coordinator, NYCDEP Project Manager
- 3. Provide assistance to the WAP Planning Staff in techniques for proper placement and planning of stream related agricultural Best Management Practices.
  - June 2011 April 2013 DCSWCD SCMPr Staff
- 4. Provide engineering approval, technical support, and individual project design assistance to Watershed Agricultural Program engineers and technicians as per the Protocol identified in action item #2 above.
  - June 2011 April 2013, DCSWCD SCMP Coordinator, SCMP Professional Engineer, and DCSWCD SCMP Staff

# <u>Recommendation 2: Provide Technical Support to the USDA Conservation Reserve Enhancement</u> <u>Program (CREP)</u>

The Stream Corridor Management Program (SCMPr) and the NYCDEP should continue to fund and provide technical and design assistance for stream bank stabilization projects at potential CREP sites. The goal of this assistance is to stabilize stream banks so they are eligible for CREP participation.

- 1. Develop the prioritization process for providing technical and financial assistance to the WAP on CREP projects.
  - May 2011 July 2011 SCMPr Coordinator, NYC DEP Project Manager, WAP Program Managers
- 2. Provide stream evaluation and assessment assistance to the Watershed Agricultural Program planners to determine if stream instability issues will preclude CREP enrollment.
  - May 2011 April 2013 SCMPr Coordinator, SCMPr PE, SCMPr technicians, and NYC DEP as needed
- 3. Provide design assistance and engineering approval to the Watershed Agricultural Program engineers and technicians in the preparation of approved stream stabilization designs and projects that facilitate CREP enrollment.
- 4. Provide funding to the Watershed Agricultural Program for stream stabilization projects that facilitate CREP enrollment.
  - May 2011 April 2013 SCMPr Staff
- 5. In cooperation with the Watershed Agricultural Program, evaluate stream instability issues for remediation on existing CREP sites.
  - May 2011 April 2013 SCMPr Coordinator, SCMPr PE, and SCMPr Technicians
- 6. Provide funding to the Watershed Agricultural Program for stream projects that stabilize existing CREP sites.
  - May 2011 April 2013 SCMPr Staff
- 7. Develop and implement an evaluation approach to determine success of these projects
  - May 2011 April 2013 SCMPr Staff

# <u>Recommendation 3: Enhance the Implementation of CREP on New York City Watershed Cropland</u> and Explore Long – Term CREP Contracts

The Stream Corridor Management Program (SCMPr) should work with the New York City Department of Environmental Protection, United States Department of Agriculture, US Environmental Protection Agency, Watershed Agricultural Council and other pertinent federal, state and local agencies and organizations to enhance CREP implementation on cropland and explore long-term CREP contracts.

- 1. Develop an interagency working group to prepare a white paper requesting USDA / FSA to enhance rental payments for CREP riparian buffers on cropland.
  - February 2012 WAP Staff, DEP Staff, SCMPr Staff
- 2. Explore options to maintain riparian buffers after CREP contract expiration and submit written recommendations.
  - May 2011 June 2013 WAP Staff, SCMPr Staff, DEP Staff

# **Recommendation 4: Implement a Variable Width Riparian Buffer Pilot Program**

The Delaware County Soil and Water Conservation District (DCSWCD) Stream Corridor Management Program (SCMPr) should work with the New York City Department of Environmental Protection (NYCDEP), New York State Department of Environmental Conservation, Watershed Agricultural Council, Catskill Watershed Corporation, Cornell Cooperative Extension and other pertinent federal, state and local agencies and organizations to develop and implement a pilot program to establish variable width riparian buffers along unstable stream reaches and monitor their effectiveness.

- 1. CSBI will initiate a process defining eligible sites and for implementing variable width buffers
  - May 2011 May 2012 DCSWCD CSBI Coordinator and NYC DEP CSBI Coordinator with NYC DEP and DCSWCD staff input
- 2. Identify potential sites for demonstration of a variable width riparian buffer pilot project. implement one demonstration project
  - May 2011 April 2013 SCMPr Staff, DEP Staff, WAP Staff

# **Recommendation 5: Participation with the Catskill Watershed Corporation**

The Stream Corridor Management Program (SCMPr) should cooperate with the Catskill Watershed Corporation (CWC) to explore the enhancement of existing CWC programs and explore the development of new CWC funding programs that address stream related stormwater issues, stream stewardship, public education and outreach, and stream stability issues.

- 1. Provide technical assistance as requested for stream related CWC funded projects.
  - May 2011 April 2013 SCMPr Staff, NYC DEP Staff, CWC Staff
- 2. Explore ways to coordinate stream related education and outreach efforts (such as Catskill Streams and Watershed Education Program) with CWC.
  - May 2011 April 2013 SCMPr Staff, CWC Staff

# Recommendation 6: Stream Corridor Management Plans for Non-Agricultural Riparian Landowner Stewardship

The Stream Corridor Management Program (SCMPr) should seek funds to develop a program to provide non-agricultural riparian landowners with their own site specific Stream Corridor Management Plans.

- 1. Continue the implementation of the Catskill Streams Buffer Initiative (CSBI) through the DCSWCD Stream Corridor Management Program Contract funded by NYC DEP.
  - May 2011 April 2013 SCMPr Staff, NYC DEP CSBI Coordinator
- 2. Develop a protocol for prioritizing the implementation of the Catskill Streams Buffer Initiative.
  - June 2011 December 2011 SCMPr Coordinator, DCSWCD CSBI Coordinator, NYC DEP CSBI Coordinator
- 3. Development of a minimum of 5 Riparian Corridor Management Plans (RCMP) per year.
  - June 2011 June 2013 DCSWCD CSBI Coordinator, DCSWCD SCMPr Staff,
- 4. Implement a minimum of 3 Riparian Corridor Management Plans per year by means of contractual planting services. Implement 1 demonstration or educational riparian Corridor Management Plan per year by means of volunteer plantings or landowner plantings.
  - June 2011 June 2013 DCSWCD CSBI Coordinator
- 5. Education and outreach for CSBI shall be accomplished by facilitating at least one riparian workshop for landowners per year. Education and outreach shall also be accomplished by active participation at relevant local events, direct mailings, web site usage, and local media.
  - June 2011 June 2013 DCSWCD CSBI Coordinator
- 6. Secure landowner license and maintenance agreements for long-term access by DCSWCD and NYCDEP to facilitate ongoing maintenance and monitoring.
  - June 2011 June 2013 DCSWCD CSBI Coordinator

- 7. Develop planting plans as requested for applicable Stream Program projects in coordination with Stream Program staff.
  - June 2011 June 2013 DCSWCD SCMPr Staff and DCSWCD CSBI Coordinator
- 8. Develop and implement a monitoring program for riparian buffer projects to identify project success and effectiveness.
  - June 2011 June 2013 DCSWCD CSBI Coordinator, NYC DEP CSBI Coordinator
- 9. Develop local resources to maintain availability of native vegetation planting stock as needed.
  - June 2011 June 2013 DCSWCD CSBI Coordinator

## **Recommendation 7: Stream Gravel Deposition Issues**

The Delaware County Soil and Water Conservation District (DCSWCD) Stream Corridor Management Program, New York City Department of Environmental Protection and Delaware County Department of Watershed Affairs will identify opportunities to work with the New York State Department of Environmental Conservation and U.S. Army Corps of Engineers for the purpose of identifying options pertaining to the management of deleterious gravel deposits within the West Branch of the Delaware River system.

- 1. Develop and implement an educational and outreach program to teach municipal leaders and community members about the specific stream processes involved in the mobilization and transport of gravel and debris.
  - November 2011 April 2012 SCMPr Staff
- 2. Encourage one or two municipalities to apply for grant funding through the SCMPr to scientifically study stream reaches with identified gravel deposition issues for potential case studies to be used in Item 1.
  - May 2011 April 2013 SCMPr Staff
- 3. Design and implement two demonstration projects that utilize the existing gravel management protocol developed by the SCMPr.
  - May 2012 April 2013 SCMPr Staff
- 4. Develop a Delaware County protocol for municipalities to manage woody debris in stream systems.
  - September 2011 April 2012 DCSWCD SCMPr Coordinator, NYC DEP Project Manager and Stream Engineering Coordinator, DCDPW
- 5. Undertake a periodic review of the gravel maintenance protocol developed by the SCMPr.
  - May 2011 April 2013 SCMPr Staff, NYC DEP Staff

### **Recommendation 8: Streamline Stream Work Permitting**

The Stream Corridor Management Program (SCMPr) proposes that the permitting process for stream work be simplified and streamlined. It is proposed that an interagency working group composed of representatives from the New York State Department of Environmental Conservation, U.S. Army Corps of Engineers, Delaware County Soil & Water Conservation District (DCSWCD), New York City Department of Environmental Protection, neighboring Soil & Water Conservation Districts, Delaware County Department of Public Works (DCDPW) and local community leaders identify ways to delegate, simplify and streamline the permitting process for the benefit of all agencies and stakeholders.

- 1. Work in cooperation with NYSDEC, US Army Corps of Engineers, NYC DEP, and DCDPW to enhance the authority thresholds of the DCSWCD General Permit as delegated by the NYSDEC for approved stream management practices within the County.
  - November 2011 SCMPr Staff, NYCDEP RRE and SMP staff, US Corps of Engineers, DCDPW

### **Recommendation 9: Assist Municipalities with Culvert Sizing and Design**

The Stream Corridor Management Program (SCMPr), in cooperation with the Catskill Watershed Corporation, Delaware County Department of Public Works and NYCDEP should develop a program to provide technical assistance to Town Highway Superintendents for culvert design, sizing and placement.

- 1. Provide technical assistance and educational support to municipalities for sizing and the design of routine culvert replacements.
  - May 2011 April 2013 SCMPr Staff, DCDPW
- 2. Enable municipalities to apply for funding through the grants program for high priority culverts that are improperly sized or aligned and causing stream instability and/or water quality issues.
  - May 2011 April 2013 SCMPr Staff, DCDPW

### **Recommendation 10: Participation with the Delaware County Action Plan (DCAP)**

The Stream Corridor Management Program will continue to work closely with all DCAP participants to integrate the West Branch Delaware River Stream Corridor Management Plan and its recommendations into all relevant components of the Delaware County Action Plan.

- 1. Attend regular meetings of DCAP and advocate for inclusion of Stream Corridor Management Plan and its recommendations into all relevant components of the Delaware County Action Plan.
  - May 2011 April 2013 DCPD Director, DCSWCD Executive Director, SCMPr Coordinator

### **Recommendation 11: Expand Public Education and Outreach Efforts**

The Stream Corridor Management Program (SCMPr) should expand public education and outreach efforts to better inform and educate all stakeholders, including municipalities, regarding stream stewardship, the importance of floodplain function, stream processes and the importance of riparian vegetation. These efforts should be developed and implemented in cooperation with the Project Advisory Committee with funding from the Catskill Watershed Corporation.

- 1. Fund and implement education and outreach activities identified and prioritized by the Project Advisory Committee Education and Outreach sub-committee.
  - May 2011 April 2013 PAC, SCMPr Staff, DCPD staff
- 2. Educate municipalities and communities on the importance of floodplain function and the benefits of preserving floodplains, and opportunities for improving flood protection and reducing flood damages through the refinement and use of flood insurance rate maps (FIRMs) and other State/Federal programs.
  - May 2011 April 2013 DCPD Staff, SCMPr Staff, NYSDEC

### **Recommendation 12: Geomorphic Assessments at Bridges and Culverts**

The Stream Corridor Management Program (SCMPr) and NYCDEP should develop a protocol and program to perform a full geomorphic assessment at prioritized bridges and large culverts. This program should be developed in cooperation with the New York City Department of Environmental Protection, Delaware County Department of Public Works, Delaware County Planning Department, Town and Village Highway Superintendents and New York State Department of Transportation.

- 1. Explore funding opportunities to provide local match a grant to conduct a full geomorphic assessment of small (5' 20') publically owned hydraulic structures throughout Delaware County.
  - May 2011 April 2013 DCDPW, SCMPr Staff
- 2. Continue to advise and/or fund municipalities through the grants program for the replacement of publicly owned stream crossing structures that are causing stream instability and/or water quality issues.
  - May 2011 April 2013 SCMPr Staff

### **Recommendation 13: Flood Hazard Mitigation and Flood Recovery**

Work with Delaware County Planning Department and Emergency Services to develop a county-wide Hazard Mitigation Plan. Continue to work with the Delaware County Board of Supervisors, New York City Department of Environmental Protection (NYCDEP), New York State Department of Environmental Conservation (NYSDEC) and the State Emergency Management Office (SEMO) to revise the Federal Emergency Management Agency (FEMA) flood study and floodplain maps.

- 1. Provide assistance to the Delaware County Planning Department and Delaware County Emergency Services through steering committee meetings for the development of the Multi Jurisdictional All Hazards Mitigation Plan.
  - May 2011 December 2011 DCSWCD SCMPr Coordinator
- 2. Provide documentation of completed flood hazard mitigation projects to the Hazard Mitigation Coordinator.
  - May 2011 April 2013 SCMPr Staff
- 3. Provide assistance as requested by the Director of Emergency Services to the Emergency Operations Center during flood related events.
  - May 2011 April 2013 SCMPr Staff
- 4. Develop a list of historic problem areas where streams impact infrastructure during flood events and correlate to stream gage stage heights.
  - May 2011 April 2013 SCMPr Staff
- 5. Work with communities to understand, utilize and revise (FEMA) floodplain maps.
  - May 2011 April 2013 DCPD, NYC DEP Project Manager, NYSDEC, SCMPr Staff
- 6. Work with communities to update local ordinances, laws and comprehensive land use plans to incorporate elements of the Stream Corridor Management Plan its recommendations and stream stewardship principles.
  - May 2011 April 2013 DCPD, SCMPr Staff
- 7. Provide technical assistance to municipalities with emergency stream intervention measures during flood recovery.
  - May 2011 April 2013 SCMPr Staff

### **Recommendation 14: Continuation of Geomorphic Research / Assessments**

The Stream Corridor Management Program (SCMPr) and New York City Department of Environmental Protection, in consultation with the Project Advisory Committee, should continue Rosgen Level II assessments and perform Rosgen Level III and Level IV assessments at prioritized locations throughout the West Branch Delaware River watershed.

- 1. Perform Rosgen Level II assessment of Steele Brook in Delhi
  - June 2011 October 2011 SCMPr Staff
- 2. Coordinate the development of the Village of Walton Third Brook Management Plan to be created by a consultant, funded by the NYS DOS and NYC DEP.
  - June 2012 SCMPr Staff
- 3. Work with the PAC to identify and prioritize stream reaches that require further assessments.
  - May 2011 April 2013 SCMPr Staff

### **Recommendation 15: Seek Funds Necessary for Construction of Walton Streambank Stabilization Projects**

The Stream Corridor Management Program (SCMPr) will continue to seek all funds necessary to implement two streambank stabilization projects located at Terrace Avenue and South Street in the Village of Walton.

- 1. Terrace Avenue Project completed.
- 2. South Street Project completed.
- 3. Monitor and evaluate the effectiveness of select projects.
  - May 2011 April 2013 SCMPr Staff

### **Recommendation 16: Prioritization of Identified Stream Intervention Projects**

The Stream Corridor Management Program, working with the Project Advisory Committee and New York City Department of Environmental Protection, will prioritize potential restoration reaches relative to the type and level of intervention needed.

#### **Action Items:**

- 1. Develop a formal protocol for the prioritization of Stream intervention projects
  - October 2011 SCMPr Staff, NYC DEP, PAC
- 2. Implement the Village of Walton Floodplain Reclamation project at West Brook in collaboration with the Open Space Institute and the Village of Walton. This project is a FAD deliverable due May 2012.
  - May 2011 October 2011 SCMPr Staff
- 3. Implement the Third Brook Corridor Mass Slope Failure Mitigation (WRDA grant) project at Third Brook as per the NYSDOS watershed management plan recommendations.
  - June 2012 April 2013 SCMPr Staff
- 4. Implement the East Brook Slope Failure Project (County Route 22 Phase II project a FAD deliverable due May 2012)
  - May 2012 SCMPr Staff
- 5. Design and implement approved Delaware Watershed Stream Management Implementation Grant Program projects within the West Branch of the Delaware River watershed.
  - May 2011 April 2013 SCMPr Staff

List of projects approved to date under the grant program:

Mallory Brook culvert replacement, Town of Hamden Lake Odell Road stormwater project, Town of Harpersfield Pines Brook culvert outfall, Town of Walton Roxbury Mountain Road culvert replacement, Town of Stamford Beers Brook Stream Bank Stabilizations (site 8a and site 8d), Town of Walton Pine Swamp Rd. debris management project, Town of Tompkins Chambers Hollow streambank stabilization project, Town of Hamden Hydroseeder for intermunicipal use in stream and watercourse erosion control, Town of Walton

# <u>Recommendation 17: Develop a Process for Updating the West Branch Delaware River Stream Corridor</u> <u>Management Plan</u>

In cooperation with the Project Advisory Committee and New York City Department of Environmental Protection, the Stream Corridor Management Program shall develop a process for updating the West Branch Delaware River Stream Corridor Management Plan.

- 1. Work with the Project Advisory Committee and its Sub-Committees to initiate a comprehensive review of The West Branch Delaware River Stream Corridor Management Plan and initiate a process to update the plan as required.
  - November 2012 PAC, DCPD, SCMPr Staff, DEP staff

#### DELAWARE COUNTY STREAM CORRIDOR MANAGEMENT PROGRAM

#### TWO-YEAR ACTION PLAN for the EAST BRANCH DELAWARE RIVER PEPACTON RESERVOIR BASIN

May 2010 - April 2012



Margaretville Pavilion Park Streambank Stabilization - 2007

#### DELAWARE COUNTY STREAM CORRIDOR MANAGEMENT PROGRAM

#### TWO-YEAR ACTION PLAN for the EAST BRANCH DELAWARE RIVER PEPACTON RESERVOIR BASIN

May 2010 - April 2012

#### Table of Contents

- 1. Program Development
- 2. Staff Training and Development
- 3. Education and Outreach
- 4. Schedule of Stream Intervention Projects
- 5. Project Monitoring
- 6. Streamside Assistance Program
- 7. Flood Response and Other Unexpected Events
- 8. Adoption of EBDR Stream Corridor Management Plan by Communities

Updated 10/14/09 by JLR

#### Task I. Program Development

The Delaware County Soil & Water Conservation District (DCSWCD) and New York City Department of Environmental Protection (NYCDEP) is transitioning to the implementation phase of the local Stream Corridor Management Plans (SCMPs). Certain tasks are pertinent to overall program development, especially DCSWCD-NYCDEP-local stakeholder efforts. Specific activities would include:

#### Today's Date is December 1, 2009

	Implementation		Eval	uation	Implementation			Progress			
			What evidence indicates	How and when will evidence		Not	Just		Near		
What needs to be done	By whom and when	What resources	progress	be gathered	Documentation	Started	Started	In-Progress	Complete	Complete	Notes
			Set-up meeting, solicitation of	Documentation of activities as	Meeting Oct. 29						
e-form Project Advisory	DCSWCD, DCPD, DEP,		members, organizational	they occur. Semi-annual	Follow-up Meeting					Х	
ommittee	stakeholder committee - 2008	NYCDEP Contract	meeting	reporting.	Nov. 17						
	200W02 2022 252			Documentation of activities as						х	Held October 29, 2008
	DCSWCD, DCPD, DEP,			they occur. Semi-annual							Follow-up Nov. 17, 2008
	stakeholder committee - 2008		meeting	reporting.							Subcommittees will be tracked on Task I-A1
AC interaction:	PAC members - ongoing	NYCDEP Contract									
				Documentation of activities as							
Implement prioritized SCMP			Recommendation	they occur. Semi-annual				Х			
recommendations	PAC members - ongoing		implementation on local level	reporting.							Four subcommittees formed. See Task 1-A
				Documentation of needs as							
				they occur. Semi-annual				Х			
Identify future needs	PAC members - ongoing		Needs identified	reporting.							See Task -A1
				Documentation of PAC							
Guide and participate in E/O			PAC participation in E/O	participation and contribution,				Х			Education and Outrereach Subcommittee
efforts	PAC members - ongoing		efforts	semi-annual reporting							formed
Consult with SCMP staff as								х			
needed	PAC members - ongoing		Open dialogue	Records of consultations				^			
				Community participation in							
				established, pilot and new							
Promote community			Active community stewardship	programs. Semi-annual		Х					
stewardship efforts	PAC members - ongoing		role	reporting.							
	SCMPr, DCPD, NYCDEP, PAC			Meeting minutes distributed		1					
leet quarterly with PAC		NYCDEP Contract	Meetings held as scheduled	within one week of meeting		1		х			Meetings held May 5 and November 5, 200

Program partners - NYCDEP, Delaware County agencies, state and federal agencies Stakeholders - Towns, villages, local businesses, landowners

#### Task I. Program Development

The Delaware County Soil & Water Conservation District (DCSWCD) and New York City Department of Environmental Protection (NYCDEP) is transitioning to the implementation phase of the local Stream Corridor Management Plans (SCMPs). Certain tasks are pertin

#### Today's Date is December 1, 2009

							10	day's Date is	Decembe	er 1, 2009	_
ask I-A1 - Project Advisory 0	Committee (PAC) Sub-Commi	ttees									
	Implementation		Eval	uation	Implementation			Progress			
			What evidence indicates	How and when will evidence		Not	Just		Near		
What needs to be done	By whom and when	What resources	progress	be gathered	Documentation	Started	Started	In-Progress	Complete	Complete	Notes
AC Sub-committees:	PAC members - ongoing	NYCDEP Contract									
Gravel/Debris Management and Streamlined Permitting/Highway Infrastructure Management	PAC members - ongoing		Recommendation implementation on local level	Documentation of activities as they occur. Semi-annual reporting.				x			start dialog ECOs,DEP &DEC regarding turbidity regs. Meeting held May 5, 2009, Draft Administrative Plan completed
Recreation and Fisheries	PAC members - ongoing		Recommendation implementation on local level	Documentation of PAC participation and contribution, semi-annual reporting				x			Meetings held Dec. 18, 2008, Feb. 10 & 25 March 25, April 29, May 20, 2009. Administrative Plan being developed
Flood Management Issues	PAC members - ongoing		Recommendation implementation on local level	Documentation of PAC participation and contribution, semi-annual reporting				х			Meetings held April 2, May 28, August 25 and November 19, 2009. Draft Administrative Plan completed
Information, Education and Outreach	PAC members - ongoing		PAC participation in E/O efforts	Community participation in established, pilot and new programs. Semi-annual reporting.				x			Meeting held on June 9, 2009. Draft Administrative Plan completed
Local Government Initiatives	PAC members - ongoing		Recommendation implementation on local level	Documentation of PAC participation and contribution, semi-annual reporting		х					

Task I-B - Delaware County Pl	lanning Department (DCPD) C	ontract					То	day's Date is	December 1	, 2009
	Implementation		Evalu	uation			Progress			Implementation
			What evidence indicates	How and when will evidence	Not	Just		Near		
What needs to be done	By whom and when	What resources	progress	be gathered	Started	Started	In-Progress	Complete	Complete	Documentation
									x	
Renew contract	DCSWCD, DCDP - April 2008	NYCDEP Contract	Contract submitted Contract execution	When contract is executed						Current renewed for duraiton of DCSWCD contract with NYCDEP
Contract deliverables	2001102;2021 7,0112000									
Contract denverdence			Job announcement out.							
			Applications received.	Documentation of completed					×	
	DCPD, DCSWCD, NYCDEP -		Interviews conducted. Position	steps of the process. Annual					Х	
Hire Stream Planner	2008	NYCDEP Contract	filled.	reporting.						Hired Mike Jastremski Jan 5, 2009
			Stream Planner to advise							
			Flood Management,							
			Highway/Infrastructure and				х			Mike J. heading up Flood Management
Participate with PAC				Documentation of participation.						subcommittee. Coordinating Action Plan
activities Integrate SCMPr activities	SCMPr, DCDP - ongoing	NYCDEP Contract	committees Incorporate SCMP	Annual reporting.						updates
with flood hazard mitigation			recommendations into updates							
(CEMP) and All-Hazards			of CEMP and All-Hazards	Documentation of participation.		х				
	SCMPr, DCPD - ongoing	NYCDEP Contract		Annual reporting.						
initigation i lan	Commit, Dor D ongoing		initigation i fair and theo terea	, under oportung.						Planning staff instrumental in Plan adoption
Work with communities to										process at meetings with local planning
integrate stream protection			SCMP referenced in local					х		boards and municipal boards. Town of
concepts in local regs and			planning documents and	Documentation as changes						Middletown in process of updating
	SCMPr, DCPD - ongoing	NYCDEP Contract	regulations	occur. Annual reporting.						Comprehensive Plan
Participate in training efforts				Documentation of training						
for local gov'ts, planning				events. Provide evaluation			x			FIRM workshop July 14. Realtor Training
boards, CEOs and general				results from participants.			~			held Sept 30, 2009
public	SCMPr, DCPD - ongoing	NYCDEP Contract	8 /	Annual reporting.						Floodplain Map Meetings Nov 16-17
			Adoption of SCMP at municipal							
Assist with public outreach			level in most West Branch	Documentation of outreach		Х				
efforts	SCMPr, DCPD - ongoing	NYCDEP Contract		efforts. Semi-annual reporting.						<b>-</b>
Development of model 1				Documentation of law		~	1			Review of existing regulations undertaken
	SCMPr, DCPD - ongoing from 2008	NYCDEP Contract	new FEMA floodplain maps	development phases. Annual		Х				and consideration of model ordinances
	2008	INTODEP CONTRACT	starting Summer 2009 Participate in local adoption of	reporting. Documentation of law						underway
Implementation of model	SCMPr, DCPD - ongoing from			development phases. Annual	х		1			
		NYCDEP Contract	starting Summer 2009	reporting.	^		1			
14110	2000		Addition of Town of Tompkins	loporting.			1			
Assist with basin-specific			to WBDR SCMP, evaluating	Completion of drafts of various			1			
	SCMPr, DCPD - ongoing as			plan components. Semi-	Х					
<b>a</b> 1		NYCDEP Contract		annual reporting.			1			

	Department of Public Works (I	<u></u>			1				baay o Bato lo	December 1,	
	Implementation			lation				Progress			Implementation
			What evidence indicates	How and when will evidence					Near		
What needs to be done	By whom and when	What resources	progress	be gathered	Action Items	Not Started	Just Started	In-Progress	Complete	Complete	Documentation
	DCSWCD, DCPD, NYCDEP,		Identify DCDPW needs.	Needs identified. Action items		Y					On-going cooperation on training and
Develop MOA with DCDPW	DCDPW - Spring 2008	NYCDEP Contract	Identify action items.	acted on. Annual reporting.		~					technical reviews
			Trainings scheduled and held,								
			number pf participoants						х		Training held 3/19/2009, 30 DPW staff
Training opportunities	DCSWCD, DCPD			Schedule 2 trainings by 2012	Meeting sign-in sheets						attended-71attendees
											Agreed on conceptual design for County
											Route 22 restoration project. Contacted
			Collaboration between	County Rte. 22 Restoration					Y		FEMA requesting they accept changes to
					As-built documents. Annual				~		PW. Revised design substanially complete.
Collaboration on		DCSWCD, DCDPW, NYCDEP			reports, key communications						Beginning permitting and landowner
stream/stormwater projects					on reviews						approval phases.
stream, sterminater projecto	2001.02, 2001 11		Process established for review								
Planning/design (Highway				SCMP recommendatiopns				Y			
	DCSWCD, DCPD, DCDPW				Finalized HMPs			^			
wanayement Plans, etc.)	DC3WCD, DCPD, DCDPW	DC3WCD, DCPD, DCDPW	plans/designs	incorporated.	FILIAIIZEU FIIVIES					1	

Task I-D - Implementation of I	EBDR SCMP Recommendation	ns				То	oday's Date is	December 1,	2009	
	Implementation			uation		-	Progress			Implementation
			What evidence indicates	How and when will evidence				Near		
What needs to be done	By whom and when	What resources	progress ***	be gathered	Not Started	Just Started	In-Progress	Complete	Complete	Documentation
										Hamden, Walton & Margaretville. Mitigation
			Develop schedule/protocol.							performed on West Brook, Launt Hollow an
1) Science-based post-flood	SCMPr, NYSDEC, NYCDEP,		Execute DEC contract.	Documentation of activities and				Х		Platte Kill sites. 3 Follow-up days in fall
emergency stream intervention	PAC - 2008-2009	NYCDEP Contract, NYSDEC	Schedule training.	training. Annual reporting.						2009.
										Town of Andes - Close Hollow, Barkaboom-
										May 22; Town of Middletown - Arkville wells
							х			5/18. Dry Brk Town of Colchester - Holliday
										Brook-May 22
<ol><li>Technical assistance to local</li></ol>	SCMPr, NYCDEP, CWC, PAC	NYCDEP Contract, CWC,	Consultations. Assistance	Documentation of activities.						Gladstone Hlw-Town of Andes, Mill Brk-
highway departments	ongoing	others	provided.	Annual reporting.						Town of Middletown
3) Implement Streamside	SCMPr, NYCDEP, PAC -						~			
Assistance Program (SAP)	ongoing	NYCDEP Contract	See section VI	See section VI			Х			
			WOH vision/planning							Post-Flood training presented to NYS
			workshops. Public workshops,	Documentation of all activities.			х			Floodplain Managers Sept 22, 2009 and
	SCMPr, DCPD, NYCDEP,		exhibits, school programs,	Meeting minutes distributed			~			NYWEA Sept 15, 2009. Visioning meeting
<ol> <li>Continue to enhance</li> </ol>	CWC, PAC, watershed	NYCDEP Contract, CWC,	articles, fact sheets,	within one week of meetings.						for 2010 Post-Flood training held on Nov
education and outreach efforts	stakeholders - ongoing	others	brochures, etc.	Annual reporting.						17, 2009
5) Annual floodplain				Documentation of workshops						Mike Jastremski became CFM. Progress
development permit training for	SCMPr, DCPD, NYSDEC,			and trainings. Annual			Х			being made to bring CFM course to
municipal officials	NYCDEP, PAC - ongoing	NYCDEP Contract, NYSDEC	Workshops/trainings scheduled	reporting.						Delaware County for local officials.
			Local planning meetings	Documentation of activities.						
			attended. Local Comp Plan	Meeting minutes distributed	Y					
	SCMPr, DCPD, NYCDEP,		amendments	within one week of meetings.	Х					
6) Enhance local land-use laws	PAC - ongoing	NYCDEP Contract	proposed/adopted.	Annual reporting.						
	SCMPr. DCPD. NYCDEP.		Presentations to local	5						
7) Adopt Principles of Stream	PAC, local municipalities -		municipalities. Principles	Documentation of activities.				х		
Stewardship at municipal level		NYCDEP Contract	adopted.	Annual reporting.						In Progress with plan adoptions
, ,	SCMPr, DCDPW, NYCDEP,			Meeting minutes distributed						
8) Streamline stream work	NYSDEC, USACOE, USFWS,	NYSDEC, USACOE, NYCDEP	Working group developed.	within one week of meetings.		х				
permitting	other SWCDs - 2008	Contract	Participation with InterAct	Semi-annual reporting.						
				Documentation of workshops &						
			Sponsoring of workshops.	meetings. Impacted reach						
9) Selective stream gravel	SCMPr, NYSDEC, USACOE,		Identification of pilot project.	identified. Project timeline form		х			1	
management	NYCDEP, CWC - 2008	NYCDEP Contract, CWC	Participation with InterAct	executed. Annual reporting.						
									1	Working with Bull Run and Steele Brook
10) Assistance to community							Х			landowners. Initial meeting with Steele
watershed groups/associations	SCMPr, NYCDEP, CWC, PAC	4	Guidance provided. Empower	Activities documented. Annual						Brook group 10-08-09. Most survey
& government entities	ongoing	NYCDEP Contract	these groups.	reporting.						releases signed.

\*\*\* See WBDR Action Plan and contract scope of work for specific deliverables.

Task I-D - Implementation of	EBDR SCMP Recommendation	ns				То	day's Date is	December 1	, 2009	
	Implementation			uation			Progress			Implementation
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Not Started	Just Started	In-Progress	Near Complete	Complete	Documentation
11) Participation with DCAP	SCMPr, DCAP partners - ongoing	NYCDEP Contract, DCDWSA, CWC, others	Partnering activities.	Meeting minutes distributed within one week of meetings. Documentation of partnering activities. Annual reporting.			x			24 Core Group meetings attended
12) Debris management	SCMPr, DCDPW, DC Emergency Services, NYCDEP, PAC - ongoing	NYCDEP Contract	Protocol(s) developed. Guidance provided. Municipal participation.	Documentation of activities. Annual reporting.		х				Hamden Pilot Discussed
13) Prioritization identified stream intervention projects	SCMPr, NYCDEP, PAC - ongoing	NYCDEP Contract	Potential project reaches identified. PAC informed. Reaches prioritized.	Documentation of activities. Annual reporting.			x			Dry Brook survey complete.Assessment of Bull Run underway. Expanded survey Bull Run pending.
14) Enhancement of EBDR watershed fisheries	SCMPr, NYCDEP, PAC, Fisheries and Recreation subcommittee, local interests - ongoing	NYCDEP Contract, others	No Kill Designation on EBDR at Margaretville and water temperature monitoring of Halcottsville dam and no-kill zone	Proposal for No Kill designation submitted to DEC with supporting letters and information. Documentation of activities. Annual reporting.			x			Fish and Rec sub-committee held discussion with DEC Norm McBride on no-kill designation for EBDR above Pepacton Res and below Margaretville. Proposal to be prepared for submission to DEC
15) Enhance recreation opportunities	SCMPr, NYCDEP, PAC, Fisheries and Recreation subcommittee, DCPD, local interests - ongoing	NYCDEP Contract, others	Documentation and mapping of recreational opportunities in Pepacton basin. Public effort to encourage private landowners to provide additional access for recreation to the EBDR.	Map and informative publications produced			x			
16) Invasive species management	SCMPr, NYCDEP, PAC, TNC, CRISP, local interests - ongoing	NYCDEP Contract, others	Activities conducted	Documentation of activities. Annual reporting.			x			14, 2009. Halcott project May 28. South Street April 30 and June 2. CRISP Mtgs-4/2, 6/4 Draft Didymo Protocol
17) Flood hazard mitigation, flood response & recovery	SCMPr, NYCDEP, DCPD, DCDPW, DC Emergency Services, SEMO, FEMA - ongoing, Flood Management subcommittee, DEC Flood Bureau	NYCDEP Contract, DEP_FEMA contract for flood studies, others	Prepare plan for training a variety of users of floodplain maps and flood studies	Documentation of activities. Annual reporting.		x				By DCPD
18) Utilize existing funding sources	SCMPr, NYCDEP - ongoing	NYCDEP Contract, CWC, WAC, others	Explore opportunities. Activities conducted.	Documentation of activities. Annual reporting.			х			Continue to woek with CWC on a number of projects.

#### Task II. Staff Training & Development

As the SCMPr transitions to the implementation phase of the Stream Corridor Management Plan, additional training will be required to ensure staff will meet program goals. Additional training will be necessary as program activities are further refined. Training needs may include, but not be limited to:

						То	oday's Date is	Decembe	er 1, 2009	
	Implementation		Eva	luation			Progress			Implementation
			What evidence indicates	How and when will evidence				Near		
What needs to be done	By whom and when	What resources	progress	be gathered	Not Started	Just Started	In-Progress	Complete	Complete	Documentation
			Training courses attended.	Documentation of training.			х			
CPESC certification	SCMPr staff - as available	NYCDEP Contract	CPESC exam taken.	Certification obtained.			^			
				Documentation of training.						
Stream processes, gravel and				Certification obtained (where	Х					
debris management training		NYCDEP Contract, WAP	Training courses attended.	applicable).						
	DCSWCD CETs, NRCS and									
	WAP engineers, local highway									
	personnel, CWC - as			Documentation of training.	Х					
		NYCDEP Contract, WAP,		Certification obtained (where						
River morphology/engineering	available	NRCS, CWC	Training course(s) attended	applicable).						
				Documentation of training.				Х		Rosgen III-Gale, Jessica 3/22-4/2, 2009
	SCMPr staff. DCSWCD CETs -			Certification obtained (where						Rosgen I&II-Catherine 4/19-5/1, 2009
Rosgen courses	as courses are available	NYCDEP Contract, WAP	Training course(s) attended	applicable).						Rosgen I-Mike 2/23-2/27, 2009
0				Documentation of training.						
	Selected SCMPr and DCPD			Certification obtained (where	х					
Advanced hydrology	staff - as available	NYCDEP Contract, others	Training course(s) attended	applicable).						
, , , , , , , , , , , , , , , , , , , ,			5	Documentation of training.						
	Selected SCMPr and DCPD			Certification obtained (where	х					
Sediment transport	staff - as available	NYCDEP Contract, others	Training course(s) attended	applicable).						
· · ·										
	Selected SCMPr and DCPD	NYCDEP Contract, NYSDEC,		Documentation of training.			Х			Flood Insurance Rate Map - Scotty July 14
Floodplain management	staff - as available	FEMA, others	Training course(s) attended	Certification obtained						2009
				Documentation of training.						
				Certification obtained (where	х					
Riparian buffer design	SCMPr staff- as available	NYCDEP Contract - SAP	Training course(s) attended	applicable).						
		1		Documentation of training.			х			
	SCMPr and DCPD staff - as			Certification obtained (where			^			
Computer software	available	NYCDEP Contract	Training course(s) attended	applicable).						
										Willow ID - Catherine, Jessisa, 6/10-11,
		1								2009
							Х			Program evaluation Course - Catherine,
		1		Documentation of training.						Jessica 6/18&19 '09
	SCMPr and DCPD staff, as	1		Certification obtained (where						Asian Long Horn WS - Catherine May 6,
Education & Outreach	available	NYCDEP Contract	Training course(s) attended	applicable).						2009

#### Task III. Education and Outreach

DCSWCD will continue education efforts on stream processes, gravel management, floodplain management, integration of stream and floodplain management with highway and stormwater management and other topics pertinent to sound watershed management. Efforts to significantly increase education and outreach is a high priority. The objectives of these efforts are to dispel myths and improve local knowledge of sound management principles.

is a high phoney. The objective	s of these efforts are to dispel my		° 1 1					lay's Date is		December 1, 2009
	Implementation			uation			Progress			Implementation
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Not Started	Just Started	In-Progress	Near Complete	Complete	Documentation
Stream process/gravel and floodplain management workshops for planning/governing boards, hwy supts, CEOs, developers, lenders, realtors, SEMO and others as identified	SCMPr, DCPD and NYCDEP staff, consultants - Prepare goals in 2008 - on going SCMPr, DCPD and NYCDEP	NYCDEP Contract	5 Workshops held by 2012	Documentation of workshops. Annual reporting.			x			NYWEA Sept. 15, 2009. NYS Floodplain managers conf. Sept 22-23, 2009. Floodplain training for Board of Realtors Se 30, 2009 - 32 attendees.
SCMP outreach to local planning boards	staff - Prepare goals in 2008 -	NYCDEP Contract	Meet with all Planning Boards in watershed by January 2010	Documentation of workshops. Annual reporting.			x			Plan adoption meetings.
Stream intervention work training for local hwy depts, contractors.		Round IX EPF grant, NYCDEP Contract	3 Trainings scheduled for April 2009	Documentation of training. Annual reporting.			x			Draft Training material, organize training in Margaretville area held 4/28/09) Training held Walton (4/21) - 43 attendees, Margaretville (4/28) - 44 attendees and Hamden (4/14) - 33 attendees. Designs complete out to bid. Projects completed. Class follow up Walton (11/3), Hamden (10/27) Margaretville (11/10). Vision meetin for 2010 held Nov 16, 2009.
Conservation & Development CSWEP program in local schools	SCMPr staff - ongoing each spring	Catskill Center, WAC	Regularly visit 5 schools each year.	Documentation of trainings. Annual reporting.	х					
Participation with Japanese Knotweed pilot projects		NYCDEP Contract, SUNY Delhi AmeriCorps	Participation in 5 projects by 2012	Documentation of outreach and assistance. Annual reporting.			x			Halcott project May 28. South Street April 30 and June 2. Halcott project July 13, 2009. South St Junn 9 & July 14, 2009. Delhi DPW June 16, 2009. Town Brook June 16, 2009.
Delaware County Fair	SCMPr staff - each year during Fair Week	NYCDEP Contract	Display/demonstration deployed at fair August 17-23 2009	Display/demonstration implemented. Annual reporting.			х			August 10-15, 2009
Community events	SCMPr staff - as requested, as time permits		Organize and host 3 stream focused community events by 2012, participate in 5 other community events.	Demonstration implemented. Annual reporting.			x			Fleischmanns Street Fair May 2009 Cauliflower Festival Sept 26, 2009
General public outreach	SCMPr, DCPD, NYCDEP staff - ongoing		outreach materials for public by Summer 2009 Ramp up efforts to fully utilize Catskill Streams website.	Documentation of publications, website updates & workshops. Annual reporting.			x			NRCS Engineering Training 1/29/09 Regulator tour July 20, 2009 - 12 attendees
Town of Halcott Fair	SCMPr staff - as requested	NYCDEP Contract	From PAC E/O Sub-Committee in 2009	Demonstration implemented. Annual reporting.			х			7/19/2008 Gale, Jessica
General public outreach	SCMPr, DCPD, NYCDEP staff -	NYCDEP Contract, CWC, others	Materials produced, websites updated, workshops scheduled	Documentation of publications, website updates & workshops.			x			4 articles in District Newsletter 2009 Webpage on District Website Fleischmanns First Group Presentation 6/6/09

#### Task IV. Stream Intervention Projects

Projects scheduled for 2008 - 2009 implementation

						То	day's Date is	Decembe	er 1, 2009	
	Implementation			uation			Progress			Implementation
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Not Started	Just Started	In-Progress	Near Complete	Complete	Documentation
Margaretville Pavilion planting and trail installation.	SCMPr, NYCDEP, Town of Middletown, Village of Margaretville - 2008	NYSDEC, NYCDEP Contract, others	Plantings, invasive species control and trail installation implemented	Documentation of construction phases. Annual reporting.					х	Live stakes completed April, 8 2008. Grasses, trail and phase 1 of invasive eradication completed June 5, 2008. As-built survey Completed Nov. '08. Completed Project Report Jan. '09, replant o willow stakes Spring 2009 Replanted Shrubs April 20, 2009.
Bull Run Stream gravel maintainance pilot project	SCMPr, NYCDEP, Town of Middletown, Village of Margaretville, local stakeholders - as needed 2008 and beyond	NYSDEC, NYCDEP Contract, others	Protocol accepted by Village of Margaretville. Design/permitting in progress. Project out to bid or performed by village forces.	Documentation of			x			Meeting with Major Bill Stanton, Obtained landowner signatures, initial survey completed in Spring '09. Expanded survey to be done.
Further prioritization of stream management and restoration efforts	SCMPr, PAC, Municipalities	NYCDEP Contract, CWC, EPR, others	Creation of a priority list of potential projects and identification of problem areas	Meeting with local municopal leaders, members of the public and visiting sites			x			Dry Brook-Arkville water wells. Survey completed spring '09. Alignment scenarios pending. GPS walkover expanded in Tremper Kill completed. Survey completed June 15, 2009.
General flood and floodplain migitagion	SCMPr, DCDWSA, NYSDEC, NYCDEP, Municipalities, local stakeholders - 2008+	CWC, NYSDEC, NYCDEP Contract, others	Construction implemented. Planning meetings held. Design/permitting in progress for future components. Construction implemented. Projects out to bid.	Documentation of planning meetings/design/permitting/ bidding and construction. Annual reporting.						
Mill Brook Slope Failure	SCMPr, DCDPW, Town of Middletown, NYCDEP, Landwoner						x			Geotechnical Report complete July 2009. Site survey scheduled for late 2009/early 2010
Beech Hill GPS	SCMPr, NYCDEP, Town of Andes								х	GPS completed August 2009
Close Hollow Project	SCMPr, NYCDEP, Town of Andes						x			Construction inspection Sept 24-26 & 28-29, 2009. Project on hold pending legal action

#### Task IV. Stream Intervention Projects

Projects tentatively scheduled for 2010 - 2012 implementation

					Tod	ay's Date is	Decembe	er 1, 2009		
	Implementation		Eval	uation			Progress			Implementation
			What evidence indicates	How and when will evidence	Not	Just		Near		
What needs to be done	By whom and when	What resources	progress	be gathered	Started	Started	In-Progress	Complete	Complete	Documentation
			Design/permitting in progress.							
			Grant contract exectued.	Documentation of						
Martin Liddle Farm - stream			Project out to bid.	design/permitting/bidding and			х			Design substanially complete June 10, 2008
		WAP, NYSDEC, NYCDEP	Implementation, as-built	construction, as-builts and						Project on hold. Current design date
Tremper Kill	2009	Contract	survey, close-out.	close-out. Annual reporting.						11/13/08 and permitted.
			Landowner acceptance.							
			Round grants applied for.				x			Working with NRCS and WAP to implement
Other CREP facilitation	SCMPr, NYCDEP, WAP - as	WAP, NYCDEP Contract,	Design/permitting in progress.	Documentation of activities.			^			and repair CREP sites with NRCS stimulus
projects as identified	identified	others	Project out to bid.	Annual reporting.						funds
			Eligible site field visits. Planting	3						
	SCMPr, NYCDEP, NYSDEC,		plans developed. Permits							
	WAP, NRCS, local		extended/obtained. Projects						Х	
Implementation of EWP		NYCDEP Contract, NYSDEC,	out to bid. Projects	Documentation of all project						Additional EWP sites maps-Joel
planting plans		NRCS	implemented.	phases. Annual reporting.						Supplemental ESP plantings completed.
	SCMPr, NYCDEP, Town of		Protocol accepted by Village of	F						
	Middletown, Village of		Margaretville.							
Bull Run Stream gravel	Margaretville, local			Documentation of	Х					
maintainance pilot project -	stakeholders - as needed 2008	NYSDEC, NYCDEP Contract,		design/permitting/bidding and						
EBDR	and beyond	others	by village forces.	construction. Annual reporting.						
			Construction implemented.							
			Planning meetings held.							
			Design/permitting in progress	Documentation of planning			x			
	SCMPr, DCDWSA, NYSDEC,		for future components.	meetings/design/permitting/			~			Platte Kill project near Dunraven completed
General flood and floodplain		CWC, NYSDEC, NYCDEP	Construction implemented.	bidding and construction.						as part of contractor training on flood
mitigation	stakeholders - 2008+	Contract, others	Projects out to bid.	Annual reporting.						response
			Applications submitted and							
			reviewed. Projects selected.							
Projects identified for	SCMPr, NYCDEP, DCPD<		Project design/permitting in		х					
implementation through	PAC, Municipalities, local		progress. Projects out to bid.	Documentation of all project						
Funding Application process	stakeholders	NYCDEP Contract, others	Projects implemented.	phases. Annual reporting.						

#### Task V. Project Monitoring

It is a requirement that completed restoration projects be monitored for a given period of time to evaluate project effectiveness and gather data for use on future projects. The following projects will require post-project monitoring from 2010 - 2012:

projects. The following projects	s will require post-project monito	ning nom 2010 - 2012:				То	oday's Date is	Decemb	er 1, 2009	
	Implementation		Eval	uation			Progress			Implementation
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered		Just Started	In-Progress	Near Complete	Complete	Documentation
Lake Switzerland bioengineering project	SCMPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.			х			
Joy Tuttle streambank stabilization	SCMPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.			х			Completed photo Monitoring 6/17/09
Margaretville village park streambank stabilization	SCMPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.			х			Completed photo monitoring 6/08/09
USDA EWP flood mitigation sites	SCMPr - 2008 & 2009	NYCDEP Contract, NRCS	Monitoring performed	Monitoring documented. Annual reporting.			х			Photo monitoring performed in 2009
Martin Liddle Farm - stream intervention to facilitate CREP	SCMPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.	x					
Bull Run Stream gravel maintainance pilot project	SCMPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.	х					
Platte Kill flood mitigation site	SCMPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.	х					

#### Task VI. Streamside Assistance Program

The Streamside Assistance Program (SAP) is a requirement of the 2007 FAD and is also a WBDR SCMP recommendation (See Task I-D, recommendation #3). The program is required to be implemented WOH wide by December 31, 2008. The program will be planned and implemented with partnering SWCDs in the WOH watershed.

the WOH watershed.							Тос	lay's Date is		December 1, 2009
	Implementation		Eval	uation			Progress			Implementation
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Not Started	Just Started	In-Progress	Near Complete	Complete	Documentation
Hire employee	SCMPr, NYCDEP - mid 2008	NYCDEP Contract	Job description completed. Position advertised.	Document progress. Employee hired. Annual reporting.					x	Hired Catherine Skalda Jan. '09
Employee orientation	SCMPr, NYCDEP - fall 2008	NYCDEP Contract	Orientation completed	Orientation completed. Annual reporting.					х	13-Jan-0
Develop program in collaboration with WOH SAP & RBWG partners	SCMPr, NYCDEP - fall 2008	NYCDEP Contract	Start-up meetings attended. Program protocols developed.	Document progress. Annual reporting.			x			5/23 5/23 Attended Two Meetings-Catherine SAP Meetings: June 16, Aug 24, Oct 1, 2009 Marketing Strategy Mtg July 22, Aug 27 & Sept 17, 2009 Administrative Plan completed.
Work with streamside landowners	SCMPr, NYCDEP - 2009	NYCDEP Contract	Recruit landowners. Individual landowner SMPs developed & implemented. Technical assistance provided for implementation, monitoring and maintainnance.	progress, landowner SMPs, technical assistance &			x			SAP Marketing Strategy Meetings. 16 Site Visits with landowners. 3 planting plans implemented, 1 designed, 7 in progress
Participate in education and outreach efforts	SCMPr, NYCDEP - ongoing	NYCDEP Contract	Workshops scheduled	Documentation of workshops. Semi-annual reporting.			x			Green Co. Watershed Tour - June 20, 2009 Del Co Fair Aug 17-22, 2009 Watershed Program WS Sept 24th-36 attendees. Cauliflower Festival - Sept 26, 2009
Participate in SAP evaluation	SCMPr, NYCDEP - ongoing	NYCDEP Contract	Activities scheduled	Documentation of activties. Semi-annual reporting.			х			SAP Quaterly report submit

#### Task VII. Flood Response and Other Unexpected Events

Some events, either natural or manmade, are beyond the control of the contracting parties. This may include flood emergencies, or a regulatory body my require the time or other input of the DCSWCD that benefits program goals, but is unplanned. DCSWCD may be called upon to assist partnering counties withing the West of Hudson watershed. Planned activities will include enhancing coordination with partnering county agencies.

					Today's Date is December 1, 2009					
Implementation			Evaluation		Progress					Implementation
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Not Started	Just Started	In-Progress	Near Complete	Complete	Documentation
Enterna and the solution of the	SCMPr, NYCDEP, DCPD,			Design of the statistics						
Enhance relationship with Delaware County EOC	DCDPW, DC Emergency Services- onaoina	NYCDEP Contract. others	Activities performed	Documentation of activities. Annual reporting.						
Work with partners to	SCMPr, NYCDEP, DCPD, DCDPW, DC Emergency Services, SEMO, FEMA -	NTODEF Contract, others	Activities performed	Documentation of activities.		x				Formed PAC Flood Management
		NYCDEP Contract, others	Activities performed	Annual reporting.						subcommittee - March 2009
ž	SCMPr, NYCDEP - as needed	NYCDEP Contract, others	Evaluation completed. Response/recovery protocols developed. Actions taken.	Documentation of activities. Annual reporting.						
Evaluate regulatory request	SCMPr, NYCDEP - as needed	NYCDEP Contract, others	Evaluation completed. Protocols developed. Actions taken.	Documentation of activities. Annual reporting.						
Evaluate other unexpected events	SCMPr, NYCDEP - as needed	NYCDEP Contract, others	Evaluation completed. Protocols developed. Actions taken.	Documentation of activities. Annual reporting.						
Technical assistance for community flood response and recovery	SCMPr, NYCDEP, DCPD - as needed	NYCDEP Contract, others	Evaluations performed. Protocols developed. Actions taken	Documentation of activities. Annual reporting.						
	SCMPr, NYCDEP, DCPD, NYSDEC - ongoing	NYCDEP Contract, others	Database updates.	Documentation of activities. Annual reporting.						
Develop flood response protocol	SCMPr, NYCDEP, DCPD, NYSDEC, USACE - 2009	NYCDEP Contract, others	Draft Protocol submitted to NYCDEP by November 2009	Documentation of activities. Annual reporting.	х					

#### Task VIII. Adoption of EBDR Stream Corridor Management Plan by Communities

The EBDR SCMP was developed as a stewardship and management tool by the local communities. It is incumbent on the SCMPr, DCPD and NYCDEP to encourage the local communities to adopt this plan and take ownership of stream stewardship and management.

Today's Date is December 1, 2009

Implementation			Evaluation		Progress					Implementation
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Not Started	Just Started	In-Progress	Near Complete	Complete	Documentation
	SCMPr, DCPD, NYCDEP -		Protocol under development.	Documentation of progress.					×	
	spring 2008	SCMPr, NYCDEP Contract	Protoco developed.	Annual reporting					^	
Outreach to local planning and	SCMPr, DCPD, NYCDEP -			Documentation of meetings.				×		
town boards	spring 2008	SCMPr, NYCDEP Contract	Meetings scheduled	Annual reporting.				X		In Progress
	SCMPr, DCPD, NYCDEP -		Review process started.	Docmentation of process.					×	
SEQRA Review	spring 2008	SCMPr, NYCDEP Contract	Review process completed.	Annual reporting.					^	Completed September 2008
Adoption by Del Co Board of	SCMPr, DCPD, NYCDEP -			Documentation of adoption					×	
Supervisors	spring 2008	SCMPr, NYCDEP Contract	Board adoption	resolution. Annual reporting.					^	Completed Sept. 10,2008
Adoption by local governing boards	SCMPr, DCPD, NYCDEP - 2008	SCMPr, NYCDEP Contract	EBDR SCMP adopted	Documentation of adoption resolution. Annual reporting.				х		Through 11-30-2009: 17 adoptions, 6 in progress, 2 not yet started
Signing of MOA by local governing boards	SCMPr, DCPD, NYCDEP - 2008	SCMPr, NYCDEP Contract	MOA executed	Documentation of MOA. Annual reporting.				х		Ongoing with adoptions
	SCMPr, DCPD, NYCDEP,			Documentation of						
Implementation of EBDR	PAC, local communities -	SCMPr, NYCDEP Contract,		implementation activities.						
SCMP by local communities	ongoing	others	Implementation activities occur	Semi-annual reporting.						