

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

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Task I. Program Development

The Delaware County Soil & Water Conservation District (DCSWCD) and New York City Department of Environmental Protection (NYCDEP) has transitioned 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 May 11, 2010

Task I-A - Project Advisory Committee (PAC)

Implementation			Evaluation		Implementation	Progress					Notes
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Documentation	Not Started	Just Started	In-Progress	Near Complete	Complete	
Re-form Project Advisory Committee	DCSWCD, DCPD, DEP, stakeholder committee - 2008	NYCDEP Contract	Set-up meeting, solicitation of members, organizational meeting	Documentation of activities as they occur. Semi-annual reporting.	Meeting Oct. 29, 2008 Follow-up Meeting Nov. 17					X	
Hold PAC Organizational Mtg - Form SubCommittees	DCSWCD, DCPD, DEP, stakeholder committee - 2008	NYCDEP Contract	Set-up meeting, solicitation of members, organizational meeting	Documentation of activities as they occur. Semi-annual reporting.						X	Held October 29, 2008 Follow-up Nov. 17, 2008 Subcommittees will be tracked on Task I-A1
PAC interaction:	PAC members - ongoing	NYCDEP Contract									
Implement prioritized SCMP recommendations	PAC members - ongoing	NYCDEP Contract	Recommendation implementation on local level	Documentation of activities as they occur. Semi-annual reporting.				X			Four subcommittees formed. See Task 1-A1, Recommendations to Action Plan and support for Grant Program
Identify future needs	PAC members - ongoing	NYCDEP Contract	Needs identified	Documentation of needs as they occur. Semi-annual reporting.				X			See Task -A1
Guide and participate in E/O efforts	PAC members - ongoing	NYCDEP Contract	PAC participation in E/O efforts	Documentation of PAC participation and contribution, semi-annual reporting				X			Education and Outreach Subcommittee formed, draft Admin Plan prepared
Consult with SCMP staff as needed	PAC members - ongoing	NYCDEP Contract	Open dialogue	Records of consultations				X			Several consultations regarding grant program application and process
Promote community stewardship efforts	PAC members - ongoing	NYCDEP Contract	Active community stewardship role	Community participation in established, pilot and new programs. Semi-annual reporting.		X					
Meet quarterly with PAC	SCMP, DCPD, NYCDEP, PAC - quarterly	NYCDEP Contract	Meetings held as scheduled	Meeting minutes distributed within one week of meeting				X			Meetings held May 5 and November 5, 2009, April 2010

Program partners - NYCDEP, Delaware County agencies, state and federal agencies

Stakeholders - Towns, villages, local businesses, landowners, NGOs

Task I. Program Development

To help guide plan implementation the DCSWCD and DEP have established PAC subcommittees and produced administrative plans for key initiatives related to plan recommendations

Today's Date is May 11, 2010

Task I-A1 - Project Advisory Committee (PAC) Sub-Committees

Implementation			Evaluation		Implementation	Progress					Notes
What needs to be done	By whom and when	What resources	What evidence indicates progress	How and when will evidence be gathered	Documentation	Not Started	Just Started	In-Progress	Near Complete	Complete	
PAC Sub-committees:	PAC members - ongoing	NYCDEP Contract									
Gravel/Debris Management and Streamlined Permitting/Highway Infrastructure Management	PAC members - ongoing	NYCDEP Contract	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, Met with NYS DEC III Regional Director Spring 2010
Recreation and Fisheries	PAC members - ongoing	NYCDEP Contract	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, March 30, 2010. Administrative Plan completed
Flood Management Issues	PAC members - ongoing	NYCDEP Contract	Recommendation implementation on local level	Documentation of PAC participation and contribution, semi-annual reporting				X			Meetings held April 2, May 28, August 25 and November 19, 2009. Draft Administrative Plan completed, Support for Floodplan Management workshop May 2010
Information, Education and Outreach	PAC members - ongoing	NYCDEP Contract	PAC participation in E/O efforts	Community participation in established, pilot and new programs. Semi-annual reporting.				X			Meeting held on June 9, 2009, Jan 20, 2010. Draft Administrative Plan completed
Local Government Initiatives	PAC members - ongoing	NYCDEP Contract	Recommendation implementation on local level	Documentation of PAC participation and contribution, semi-annual reporting		X					

Task I-B - Delaware County Planning Department (DCPD) Contract

Today's Date is May 11, 2010

DCPD is a contractual partner with DCSWCD for the implementation planning and landuse management related recommendations. DCPD plays a lead role in communications with county and local municipal government including planning boards

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
Renew contract	DCSWCD, DCDP - April 2008	NYCDEP Contract	Contract submitted Contract execution	When contract is executed					X	Current renewed for duration of DCSWCD contract with NYCDEP
Hire Stream Planner	DCPD, DCSWCD, NYCDEP - 2008	NYCDEP Contract	Job announcement out. Applications received. Interviews conducted. Position filled.	Documentation of completed steps of the process. Annual reporting.					X	Hired Mike Jastremski Jan 5, 2009, Hired Jennifer Wallens, April 2010
Participate with PAC activities	SCMPPr, DCDP - ongoing	NYCDEP Contract	Stream Planner to advise Flood Management, Highway/Infrastructure and Education and Outreach sub-committees	Documentation of participation. Annual reporting.			X			Planner heading up Flood Management subcommittee. Coordinating Action Plan updates
Integrate SCMPPr activities with flood hazard mitigation (CEMP) and All-Hazards Mitigation Plan	SCMPPr, DCPD - ongoing	NYCDEP Contract	Incorporate SCMP recommendations into updates of CEMP and All-Hazards Mitigation Plan and vice-versa	Documentation of participation. Annual reporting.		X				
Work with communities to integrate stream protection concepts in local regs and Comprehensive Plans	SCMPPr, DCPD - ongoing	NYCDEP Contract	SCMP referenced in local planning documents and regulations	Documentation as changes occur. Annual reporting.				X		Planning staff instrumental in Plan adoption process at meetings with local planning boards and municipal boards. Fleischmanns incorporated stream section in adopted Comprehensive Plan. Town of Middletown in process of updating Comprehensive Plan
Participate in training efforts for local gov'ts, planning boards, CEOs and general public	SCMPPr, DCPD - ongoing	NYCDEP Contract	Hold 5 trainings by 2012	Documentation of training events. Provide evaluation results from participants. Annual reporting.			X			FIRM workshop July 14, 2009. Realtor Training held Sept 30, 2009 Floodplain Map Meetings Nov 16-17, 2009. Assisted with Open House for advising public on Flood Insurance Program and FIRM updates
Assist with public outreach efforts	SCMPPr, DCPD - ongoing	NYCDEP Contract	Adoption of SCMP at municipal level in most East Branch communities by January 2010	Documentation of outreach efforts. Semi-annual reporting.				X		All East Branch communities have adopted the plan except for Colchester
Development of model local floodplain development laws	SCMPPr, DCPD - ongoing from 2008	NYCDEP Contract	Participate in local adoption of new FEMA floodplain maps starting Summer 2009	Documentation of law development phases. Annual reporting.		X				Review of existing regulations undertaken and consideration of model ordinances underway. DEC model done.
Implementation of model local floodplain development laws	SCMPPr, DCPD - ongoing from 2009	NYCDEP Contract	Participate in local adoption of new FEMA floodplain maps starting Summer 2009	Documentation of law development phases. Annual reporting.	X					To be done in conjunction with map adoption
Assist with basin-specific management plan development	SCMPPr, DCPD - ongoing as needed	NYCDEP Contract	Addition of Town of Tompkins to WBDR SCMP, evaluating potential for formation of sub-basin watershed groups	Completion of drafts of various plan components. Semi-annual reporting.	X					
Advise the Delaware Watershed Stream Management Grants Program and assist in the review and ranking of applications	DCPD, DCSWCD, NYCDEP - 2010-2013	NYCDEP Contract	Participation in program development, PAC outreach, local municipal outreach and on the review committee	Regular meetings of staff and annual reports			X			On-going input into the development and administration of the grant program.

DCDPW and DCSWCD work closely on projects where highway infrastructure impacts stream function and flood response issues.

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
Develop MOA with DCDPW	DCSWCD, DCPD, NYCDEP, DCDPW - Spring 2008	NYCDEP Contract	Identify DCDPW needs. Identify action items.	Needs identified. Action items acted on. Annual reporting.		X				On-going cooperation on training and technical reviews,
Training opportunities	DCSWCD, DCPD	DCSWCD, DCPD	Trainings scheduled and held, number pf participants reported	Schedule 2 trainings by 2012				X		Training held 3/19/2009, 30 DPW staff attended-71 attendees, DPW participation in Post Flood Emergency Intervention Training and other workshops related to floodplain management
Collaboration on stream/stormwater projects	DCSWCD, DCDPW	DCSWCD, DCDPW, NYCDEP contract funds	Collaboration between DCSWCD and DCDPW on project design and implementation	As-built documents, Annual reports, key communications on reviews			X			Agreed on conceptual design for County Route 22 restoration project. Contacted FEMA requesting they accept changes to PW. Collaborated on final construction design and submitted to FEMA/SEMO. Revised design substantially complete Feb 2010. Beginning permitting and landowner approval phases. DCSWCD working with DCDPW to survey and design post flood project in Franklin 2010.
Planning/design (Highway Management Plans, etc.)	DCSWCD, DCPD, DCDPW	DCSWCD, DCPD, DCDPW	Process established for review of HMPs and other plans/designs	Highway Plans reviewed, SCMP recommendatiopns incorporated.			X			None - SWCD to request copies of HMPs

Task I-D - Implementation of EBRD SCMP Recommendations

Today's Date is May 11, 2010

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
1) Science-based post-flood emergency stream intervention	SCMP, NYSDEC, NYCDEP, PAC - 2008-2009	NYCDEP Contract, NYSDEC	Develop schedule/protocol. Execute DEC contract. Schedule training.	Documentation of activities and training. Annual reporting.				X		Trainings held April 14, 21 and 28, 2009 at Hamden, Walton & Margaretville. Mitigation performed on West Brook, Launt Hollow and Platte Kill sites. 3 Follow-up days in fall 2009.
2) Technical assistance to local highway departments	SCMP, NYCDEP, CWC, PAC ongoing	NYCDEP Contract, CWC, others	Consultations. Assistance provided.	Documentation of activities. Annual reporting.			X			Town of Andes - Close Hollow, Barkaboom-5/22/09; Town of Middletown - Arkville wells-5/18/09. Dry Brk Town of Colchester - Holliday Brook-5/22/09 Gladstone Hlw-Town of Andes, Mill Brk-Town of Middletown,
3) Implement Catskill Streams Buffer Initiative	SCMP, NYCDEP, PAC - ongoing	NYCDEP Contract	See section VI	See section VI			X			
4) Continue to enhance education and outreach efforts	SCMP, DCPD, NYCDEP, CWC, PAC, watershed stakeholders - ongoing	NYCDEP Contract, CWC, others	WOH vision/planning workshops. Public workshops, exhibits, school programs, articles, fact sheets, brochures, etc.	Documentation of all activities. Meeting minutes distributed within one week of meetings. Annual reporting.			X			Post-Flood training presented to NYS Floodplain Managers Sept 22, 2009 and NYWEA Sept 15, 2009. Visioning meeting for 2010 Post-Flood training held on Nov 17, 2009
5) Annual floodplain development permit training for municipal officials	SCMP, DCPD, NYSDEC, NYCDEP, PAC - ongoing	NYCDEP Contract, NYSDEC	Workshops/trainings scheduled	Documentation of workshops and trainings. Annual reporting.			X			Certified Floodplain Managers course to be offered for Delaware County local officials May 4-5, 2010. 4 local staff to take exam
6) Enhance local land-use laws	SCMP, DCPD, NYCDEP, PAC - ongoing	NYCDEP Contract	Local planning meetings attended. Local Comp Plan amendments proposed/adopted.	Documentation of activities. Meeting minutes distributed within one week of meetings. Annual reporting.			X			Comp plans updated in Village of Fleischmanns and in progress in Town of Middletown
7) Adopt <i>Principles of Stream Stewardship</i> at municipal level	SCMP, DCPD, NYCDEP, PAC, local municipalities - 2008-2009	NYCDEP Contract	Presentations to local municipalities. <i>Principles</i> adopted.	Documentation of activities. Annual reporting.				X		In Progress with plan adoptions
8) Streamline stream work permitting	SCMP, DCDPW, NYCDEP, NYSDEC, USACOE, USFWS, other SWCDs - 2008	NYSDEC, USACOE, NYCDEP Contract	Working group developed. Participation with InterAct	Meeting minutes distributed within one week of meetings. Semi-annual reporting.		X				
9) Selective stream gravel management	SCMP, NYSDEC, USACOE, NYCDEP, CWC - 2008	NYCDEP Contract, CWC	Sponsoring of workshops. Identification of pilot project.	Documentation of workshops & meetings. Impacted reach identified. Project timeline form executed. Annual reporting.		X				
10) Assistance to community watershed groups/associations & government entities	SCMP, NYCDEP, CWC, PAC ongoing	NYCDEP Contract	Guidance provided. Empower these groups.	Activities documented. Annual reporting.			X			Working with Bull Run and Steele Brook landowners. Initial meeting with Steele Brook group 10-08-09. Most survey releases signed.

Task I-D - Implementation of EBDR SCMP Recommendations

Today's Date is May 11, 2010

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
11) Participation with DCAP	SCMPPr, DCAP partners - ongoing	NYCDEP Contract, DCDWSA, CWC, others	Bi-monthly meetings. 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	SCMPPr, DCDPW, DC Emergency Services, NYCDEP, PAC - ongoing	NYCDEP Contract	Protocol(s) developed. Guidance provided. Municipal participation.	Documentation of activities. Annual reporting.		X				
13) Prioritization identified stream intervention projects	SCMPPr, 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. Marty Little project. Expanded survey Bull Run pending.
14) Enhancement of EBDR watershed fisheries	SCMPPr, 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 for fall 2010. Request for continued support from DEP to be sent to DEP Commissioner for letter of support.
15) Enhance recreation opportunities	SCMPPr, 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. Documentation of activities. Annual reporting.			X			Sub-committee continues to meet. Application being prepared for funding through DWSMGP
16) Invasive species management	SCMPPr, NYCDEP, PAC, TNC, CRISP, local interests - ongoing	NYCDEP Contract, others	Activities conducted	Documentation of activities. Annual reporting.			X			Halcott July 13, 2009 South St June 9 & July 14, 2009. Halcott project May 28. South Street April 30 and June 2. CRISP Mtgs-4/2, 6/4/2009
17) Flood hazard mitigation, flood response & recovery	SCMPPr, 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				County Emergency Services Coordinator to provide seat at Emergency Operations Center to DCSWCD.
18) Utilize existing funding sources	SCMPPr, NYCDEP - ongoing	NYCDEP Contract, CWC, WAC, others	Explore opportunities. Activities conducted.	Documentation of activities. Annual reporting.			X			Provided comment on CWC stream projects in Andes and Arkville.

Task II. Staff Training & Development

As the SCMP 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:

Today's Date is **May 11, 2010**

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
CPESC certification	SCMP staff - as available	NYCDEP Contract	Training courses attended. CPESC exam taken.	Documentation of training. Certification obtained.			X			Documented training
Stream processes, gravel and debris management training	WAP planners, technicians, CETs, engineers - 2008	NYCDEP Contract, WAP	Training courses attended.	Documentation of training. Certification obtained (where applicable).	X					
River morphology/engineering	DCSWCD CETs, NRCS and WAP engineers, local highway personnel, CWC - as professional instructors are available	NYCDEP Contract, WAP, NRCS, CWC	Training course(s) attended	Documentation of training. Certification obtained (where applicable).	X					
Rosgen courses	SCMP staff, DCSWCD CETs - as courses are available	NYCDEP Contract, WAP	Training course(s) attended	Documentation of training. Certification obtained (where applicable).				X		Rosgen Level IV - Gale scheduled for fall 2010 Rosgen III-Gale, Jessica 3/22-4/2, 2009 Rosgen I&II-Catherine 4/19-5/1, 2009 Rosgen I-Mike 2/23-2/27, 2009
Advanced hydrology	Selected SCMP and DCPD staff - as available	NYCDEP Contract, others	Training course(s) attended	Documentation of training. Certification obtained (where applicable).	X					
Sediment transport	Selected SCMP and DCPD staff - as available	NYCDEP Contract, others	Training course(s) attended	Documentation of training. Certification obtained (where applicable).	X					
Floodplain management	Selected SCMP and DCPD staff - as available	NYCDEP Contract, NYSDEC, FEMA, others	Training course(s) attended	Documentation of training. Certification obtained			X			Floodplain management map - County, early 2009, All staff scheduled to attend Floodplain management workshop May 4-5 2010.
Riparian buffer design	SCMP staff- as available	NYCDEP Contract - SAP	Training course(s) attended	Documentation of training. Certification obtained (where applicable).	X					Willow ID - Catherine, Jessisa, 6/10-11, 2009, Native plant symposium March 2010. All staff attended 2 day Bioengineering workshop taught by NRCS in Sullivan County, April 2010
Computer software	SCMP and DCPD staff - as available	NYCDEP Contract	Training course(s) attended	Documentation of training. Certification obtained (where applicable).			X			Autocad training - Catherine and Jessica 2010
Education & Outreach	SCMP and DCPD staff, as available	NYCDEP Contract	Training course(s) attended	Documentation of training. Certification obtained (where applicable).			X			Program evaluation Course - Catherine, Jessica 6/18&19 '09 Asian Long Horn WS - Catherine May 6, 2009, Communication workshop and water quality symposium - all staff -spring 2010

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.

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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
Stream process/gravel and floodplain management workshops for planning/governing boards, hwy supts, CEOs, developers, lenders, realtors, SEMO and others as identified	SCMP, DCPD and NYCDEP staff, consultants - Prepare goals in 2008 - on going	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 Sept 30, 2009 - 32 attendees.
SCMP outreach to local planning boards	SCMP, DCPD and NYCDEP staff - Prepare goals in 2008 - on going	NYCDEP Contract	Meet with all Planning Boards in watershed by January 2010	Documentation of workshops. Annual reporting.			X			Plan adoption meetings complete.
Stream intervention work training for local hwy depts, contractors.	SCMP and NYCDEP staff - 2008-2009	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 meeting for 2010 held Nov 16, 2009. Training scheduled for June 2010 in Walton, NY
Conservation & Development CSWEP program in local schools	SCMP staff - ongoing each spring	Catskill Center, WAC	Regularly visit 5 schools each year.	Documentation of trainings. Annual reporting.	X					
Participation with Japanese Knotweed pilot projects	SCMP staff - ongoing	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, 2009 Halcott project July 13, 2009. South St June 9 & July 14, 2009. Delhi DPW June 16, 2009. Town Brook June 16, 2009.
Delaware County Fair	SCMP staff - each year during Fair Week	NYCDEP Contract	Display/demonstration deployed at fair August 17-23 2009	Display/demonstration implemented. Annual reporting.			X			August 10-15, 2009
Community events	SCMP staff - as requested, as time permits	NYCDEP Contract	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	SCMP, DCPD, NYCDEP staff - ongoing	NYCDEP Contract, CWC, others	Prepare SCMP update outreach materials for public by Summer 2009 Ramp up efforts to fully utilize Catskill Streams website. Release Action Plan in a format that is legible to the public.	Documentation of publications, website updates & workshops. Annual reporting.			X			Draft of revised Action Plan created 11/2009. Catskills Streams website updated for Delaware Watershed Stream Management Grant Program, May 2010
Town of Halcott Fair	SCMP staff - as requested	NYCDEP Contract	From PAC E/O Sub-Committee in 2009	Demonstration implemented. Annual reporting.			X			7/19/2008 Gale, Jessica, July 14, 2009 Jessica and Joel
General public outreach	SCMP, DCPD, NYCDEP staff - ongoing	NYCDEP Contract, CWC, others	Materials produced, websites updated, workshops scheduled	Documentation of publications, website updates & workshops. Annual reporting.			X			4 articles in District Newsletter 2009 Webpage on District Website Fleischmanns First Group Presentation 6/6/09
Additional Staff support for E&O	SCMP, DCPD, NYCDEP	NYCDEP-SCA contract	Staff hired or directed to support education and outreach efforts	Documentation of publications, website updates & workshops. Annual reporting.			X			Spring 2010 - Hired Americorps member Adam Stewart to assist with education and outreach efforts. Adam is preparing educational materials, organizing volunteer groups and preparing for public events

Task IV. Stream Intervention Projects

Projects scheduled for 2010 - 2012 implementation

Today's Date is **May 11, 2010**

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
Margaretville Pavilion planting and trail installation.	SCMPPr, 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.					X	Grasses, trail and phase 1 of invasive eradication completed June 5, 2008. Trail and planting require maintenance following spring flood 2010. As-built survey Completed Nov. '08. Completed Project Report Jan. '09, replant of willow stakes Spring 2009
Bull Run Stream gravel maintainance pilot project	SCMPPr, 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 design/permitting/bidding and construction. Annual reporting.			X			Meeting with Major Bill Stanton. Obtained landowner signatures, initial survey completed in Spring '09. Expanded survey to be done. Project on hold.
Further prioritization of stream management and restoration efforts	SCMPPr, PAC, Municipalities	NYCDEP Contract, CWC, EPR, others	Creation of a priority list of potential projects and identification of problem areas	Meeting with local municipal leaders, members of the public and visiting sites			X			Dry Brook-Arkville water wells. Survey completed spring '09. Conceptual options submitted to DEP April 2010, currently under review. GPS walkover expanded in Tremper Kill completed. Survey completed June 15, 2009.
General flood and floodplain mitigation	SCMPPr, 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.	X					
Mill Brook Slope Failure	SCMPPr, DCDPW, Town of Middletown, NYCDEP, Landwoner						X			Geotechnical Report complete July 2009. Site survey scheduled for late 2009/early 2010
Beech Hill GPS Assessment	SCMPPr, NYCDEP, Town of Andes		Entry of GPS data into streams geodatabase, preparation of maps and assessment summary document prioritizing future actions						X	GPS survey of 2008 flood damages completed August 2009.
Close Hollow Project	SCMPPr, NYCDEP, Town of Andes						X			Construction inspection Sept 24-26 & 28-29, 2009. Project on hold pending legal action by property owner against DEC.

Task IV. Stream Intervention Projects

Projects tentatively scheduled for 2010 - 2012 implementation

Today's Date is **May 11, 2010**

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
Martin Liddle Farm - stream intervention to facilitate CREP Tremper Kill	SCMPPr, NYCDEP, WAP - 2009	WAP, NYSDEC, NYCDEP Contract	Design/permitting in progress. Grant contract executed. Project out to bid. Implementation, as-built survey, close-out.	Documentation of design/permitting/bidding and construction, as-builts and close-out. Annual reporting.			X			Design substantially complete June 10, 2008. Whole Farm Plan completed and stream project plans await final review and approval, April 2010. Project on hold. Current design date 11/13/08 and permitted.
Other CREP facilitation projects as identified	SCMPPr, NYCDEP, WAP - as identified	WAP, NYCDEP Contract, others	Landowner acceptance. Round grants applied for. Design/permitting in progress. Project out to bid.	Documentation of activities. Annual reporting.			X			Working with NRCS and WAP to implement and repair CREP sites with NRCS stimulus funds -2009
Implementation of EWP planting plans	SCMPPr, NYCDEP, NYSDEC, WAP, NRCS, local municipalities/landowners - 2008	NYCDEP Contract, NYSDEC, NRCS	Eligible site field visits. Planting plans developed. Permits extended/obtained. Projects out to bid. Projects implemented.	Documentation of all project phases. Annual reporting.					X	Additional EWP sites maps-Joel Supplemental EWP plantings completed.
Bull Run Stream gravel maintainance pilot project - EBDR	SCMPPr, 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 design/permitting/bidding and construction. Annual reporting.	X					
General flood and floodplain mitigation	SCMPPr, 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.			X			Platte Kill project near Dunraven completed as part of contractor training on flood response. Additional planting and floodplain protection being considered.
Projects identified for implementation through Delaware Watershed Stream Management Grants Program Application process	SCMPPr, NYCDEP, DCPD, PAC, Municipalities, local stakeholders	NYCDEP Contract, others	Applications submitted and reviewed. Projects selected. Project design/permitting in progress. Projects out to bid. Projects implemented.	Documentation of all project phases. Annual reporting.		X				Mallory Brook, Hamden. Arkville Pavillion, Middletown. Ballentine Park, Andes. Additional pre-applications expected in June 2010.
Halcott Stormwater Inventory	SCMPPr, CWC, Delaware Engineering, DEP	NYCDEP, CWC	Completed inventory				X			On-going inventory, Spring 2010

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:

Today's Date is **May 11, 2010**

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
Lake Switzerland bioengineering project	SCMPPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.			X			
Joy Tuttle streambank stabilization	SCMPPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.			X			Completed photo Monitoring 6/17/09
Margaretville village park streambank stabilization	SCMPPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.			X			Completed photo monitoring 6/08/09. Cross section survey to be conducted in May 2010 following spring storm events.
USDA EWP flood mitigation sites	SCMPPr - 2008 & 2009	NYCDEP Contract, NRCS	Monitoring performed	Monitoring documented. Annual reporting.			X			Photo monitoring performed in 2009
Martin Liddle Farm - stream intervention to facilitate CREP	SCMPPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.	X					
Bull Run Stream gravel maintainance pilot project	SCMPPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.	X					
Platte Kill flood mitigation site	SCMPPr - 2010-2012	NYCDEP Contract	Monitoring performed	Monitoring documented. Annual reporting.		X				

Task VI. Catskill Streams Buffer Initiative

The CSBI 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.

Implementation			Evaluation		Today's Date is					May 11, 2010
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	Implementation Documentation
Hire employee	SCMP, NYCDEP - mid 2008	NYCDEP Contract	Job description completed. Position advertised.	Document progress. Employee hired. Annual reporting.					X	Hired Catherine Skalda Jan. '09
Employee orientation	SCMP, NYCDEP - fall 2008	NYCDEP Contract	Orientation completed	Orientation completed. Annual reporting.					X	13-Jan-09
Develop program in collaboration with Catskill Streams Buffer Initiative partnering agencies & RBWG partners	SCMP, NYCDEP - fall 2008	NYCDEP Contract	Start-up meetings attended. Program protocols developed. Meet quarterly with CSBI coordinators.	Document progress. Annual reporting.			X			WOH organizational meetings held on 4/10, 5/8 & 5/23, Quarterly meetings held Jan 13 and April 19, 2010 Attended Two Meetings-Catherine CSBI 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	SCMP, NYCDEP - 2009	NYCDEP Contract	Recruit landowners. Individual landowner SMPs developed & implemented. Technical assistance provided for implementation, monitoring and maintainance.	Document recruitment progress, landowner SMPs, technical assistance & monitoring & maintainance. Semi-annual reporting.			X			4th quarter 2009: CSBI Marketing Strategy Meetings. 16 Site Visits with landowners. 3 planting plans implemented, 1 designed, 7 in progress. 1st Quarter 2010 - 29 sitevisits, 22 applications received, 13 qualifying, 9 selected for implementation in 2010.
Participate in education and outreach efforts	SCMP, NYCDEP - ongoing	NYCDEP Contract	Workshops scheduled	Documentation of workshops. Semi-annual reporting.			X			Greene 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 CSBI evaluation	SCMP, NYCDEP - ongoing	NYCDEP Contract	Activities scheduled	Documentation of activities. Semi-annual reporting.			X			CSBI Quarterly report submitted
Coordinate activities with DEP and other partnering agencies	SCMP, NYCDEP - ongoing	NYCDEP Contract	participate in joint initiatives							Received plant materials in fall 2009 through NYC DEP contract with NYC Parks Greenbelt Nursery. Additional material due spring 2010.

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 may 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 within the West of Hudson watershed. Planned activities will include enhancing coordination with partnering county agencies.

Today's Date is **May 11, 2010**

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
Enhance relationship with Delaware County EOC	SCMP, NYCDEP, DCPD, DCDPW, DC Emergency Services- ongoing	NYCDEP Contract, others	Activities performed	Documentation of activities. Annual reporting.		X				Emergency Services Coordinator offered to provide DCSWCD with a seat at the County EOC
Work with partners to implement county All Hazards Mitigation Plan	SCMP, NYCDEP, DCPD, DCDPW, DC Emergency Services, SEMO, FEMA - ongoing	NYCDEP Contract, others	Activities performed	Documentation of activities. Annual reporting.		X				Formed PAC Flood Management subcommittee - March 2009, Regular meetings of committee and preparation of Admin plan. Recommendation in plan to prepare plans and designs in advance for Hazard mitigation projects.
Evaluate a flood event	SCMP, NYCDEP - as needed	NYCDEP Contract, others	Evaluation completed. Response/recovery protocols developed. Actions taken.	Documentation of activities. Annual reporting.	X					
Evaluate regulatory request	SCMP, NYCDEP - as needed	NYCDEP Contract, others	Evaluation completed. Protocols developed. Actions taken.	Documentation of activities. Annual reporting.	X					
Evaluate other unexpected events	SCMP, NYCDEP - as needed	NYCDEP Contract, others	Evaluation completed. Protocols developed. Actions taken.	Documentation of activities. Annual reporting.	X					
Technical assistance for community flood response and recovery	SCMP, NYCDEP, DCPD - as needed	NYCDEP Contract, others	Evaluations performed. Protocols developed. Actions taken	Documentation of activities. Annual reporting.	X					
Continue to develop emergency flood-work database	SCMP, NYCDEP, DCPD, NYSDEC - ongoing	NYCDEP Contract, others	Database updates.	Documentation of activities. Annual reporting.	X					
Develop flood response protocol	SCMP, NYCDEP, DCPD, NYSDEC, USACE - 2009	NYCDEP Contract, others	Draft Protocol submitted to NYCDEP by November 2009	Documentation of activities. Annual reporting.	X					

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 SCMP, DCPD and NYCDEP to encourage the local communities to adopt this plan and take ownership of stream stewardship and management.

Today's Date is May 11, 2010

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
Develop outreach protocol	SCMP, DCPD, NYCDEP - spring 2008	SCMP, NYCDEP Contract	Protocol under development. Protocol developed.	Documentation of progress. Annual reporting					X	
Outreach to local planning and town boards	SCMP, DCPD, NYCDEP - spring 2008	SCMP, NYCDEP Contract	Meetings scheduled	Documentation of meetings. Annual reporting.					X	Completed
SEQRA Review	SCMP, DCPD, NYCDEP - spring 2008	SCMP, NYCDEP Contract	Review process started. Review process completed.	Documentation of process. Annual reporting.					X	Completed September 2008
Adoption by Del Co Board of Supervisors	SCMP, DCPD, NYCDEP - spring 2008	SCMP, NYCDEP Contract	Board adoption	Documentation of adoption resolution. Annual reporting.					X	Completed Sept. 10, 2008
Adoption by local governing boards	SCMP, DCPD, NYCDEP - 2008	SCMP, NYCDEP Contract	EBDR SCMP adopted	Documentation of adoption resolution. Annual reporting.					X	Through 11-30-2009: 17 adoptions, 6 in progress, 2 not yet started. As of 4/27/2010, 22 municipalities of 23 have adopted their respective plans. Town of Colchester voted not to adopt.
Signing of MOA by local governing boards	SCMP, DCPD, NYCDEP - 2008	SCMP, NYCDEP Contract	MOA executed	Documentation of MOA. Annual reporting.					X	Complete
Implementation of EBDR SCMP by local communities	SCMP, DCPD, NYCDEP, PAC, local communities - ongoing	SCMP, NYCDEP Contract, others	Implementation activities occur	Documentation of implementation activities. Semi-annual reporting.			X			Grants program initiated. First round of grants to be awarded 9/2010