

3.0 2012-2013 Milestones

Allegany County made a great deal of progress during the 2012-2013 milestone period. In addition to strategy-specific progress noted below, we performed a “historic BMP cleanup” effort which produced a one-stop GIS database that locates and identifies all stormwater BMPs permitted and installed since the 1980s, including maintenance inspection dates, as well as all urban sector Bay-approved BMPs implemented since 2010. This BMP inventory was submitted to MDE in September 2013 in the requested format for input into the Bay Model.

Strategy specific programmatic milestone progress is noted below. Please also see [Appendix A](#) for [2013 BMP Implementation Progress](#).

3.1 Urban Tree Plantings and Stream (Forest) Buffers

Both implementation and programmatic milestones were identified for these strategies. “Trees for TMDL” is a WIP sub-committee that was established in August 2012. Two (2) Partner Workshops have been held on August 8, 2012 and January 15, 2013. A complete Contact List of team members, as well as Workshop Agendas, can be found in [Appendix B](#). The Nature Conservancy (TNC), a key member of our WIP Committee, has been the leader and facilitator of this sub-group.

The goal of the Trees for TMDL group is not only to plant trees, but to plant them in locations where nutrient removal efficiencies are expected to be highest and to target opportunities to increase tree planting capacity. TNC has partnered with Department of Natural Resources (DNR) and University of Maryland (UMD) to develop a model to predict locations of topographical convergence where higher pollutant removal efficiencies are expected. These “environmentally sensitive” locations are then reviewed to identify sites of interest with respect to property ownership and upstream pollution sources. A Trees for TMDL Field Trip was held on January 3, 2013 where team members conducted field evaluations of two (2) private properties identified in the model that could be considered for tree plantings. Local DNR-Forest Service staff has reached out via a mailing in Spring 2013 to property owners of interest to initiate discussion and consideration of tree planting opportunities.

Additionally, Allegany County Department of Public Works (ACDPW), with support from members of the Trees for TMDL group, was awarded \$130K in grant funding from the Governor’s Stream Restoration Challenge to implement tree plantings on 17.6 acres of County-owned flood buyout properties throughout the County. Plantings occurred in April and May 2013 with multiple student planting days to promote environmental literacy in the middle and high-school classrooms, a requirement of the grant. This project was so successful that DNR has encouraged the County to identify additional sites for 2014 plantings to be funded by the Stream Restoration Challenge grant. A proposal was submitted on December 20, 2013 to DNR, which identified 9 additional sites totaling 20 acres for planting in April-May 2014.

The City of Cumberland was also awarded funding from the Chesapeake Bay Trust – Community Greening Grant, the Department of Housing and Community Development – Community Legacy grant, Potomac Edison, and Columbia Gas of Maryland for the *Get Rooted in Cumberland* project, which funded 85 trees planted on private properties within City limits in June through October 2013. The trees were planted with the help of the Cumberland Shade Tree Commission and volunteers and in partnership with local nurseries and the Marylanders Plant Trees program. Up to 70 more trees are proposed to be planted in Cumberland’s North End through the *Get Rooted in Cumberland* program in the spring of 2014. This project falls within the

combined sewer system (CSS) area of Cumberland, therefore cannot currently receive BMP implementation credit in the Bay Model due to model limitations; however, increasing urban tree canopy in Cumberland will improve water quality and reduce the volume of stormwater entering the CSS. In addition to the *Get Rooted in Cumberland* project, the City of Cumberland's Shade Tree Commission has provided documentation of 173 trees planted in Cumberland between 2010 and 2013. Allegany County is hopeful to eventually have the opportunity to get BMP implementation credit for these urban tree plantings in the Bay Model.

3.2 Stormwater Retrofits

Both implementation and programmatic milestones were identified for this strategy.

A sub-committee for this strategy has been identified through an existing group that has been meeting quarterly since the late 1990's. This group is referred to as the *Mitigation Other Than Acquisition* (MOTA) group. The MOTA group convened after the local floods of 1996 with the goal of partnering and coordinating a proactive approach to protecting our streams and infrastructure from large storm events. The focus of the MOTA group has evolved to include surface water quality improvement, as well. Meeting minutes from the 2012-2013 quarterly meetings can be found in [Appendix C](#). MOTA representatives include Allegany County, City of Frostburg, City of Cumberland, Allegany Soil Conservation District, MDE Waterways Division, MDE Bureau of Mines and U.S. Army Corps of Engineers.

Notably, one project underway that is discussed and coordinated regularly with the MOTA group is the Bobcat Court stormwater management pond that will retrofit approximately 100 acres of developed land within the Frostburg city limits. Stormwater from these 100+ acres was historically collected in the combined sewer system (CSS) and treated at the wastewater treatment plant. The City of Frostburg, under judicial consent order, has separated approximately 50% of their CSS to date. This 100-acre retrofit will treat a large portion of these newly separated storm drains. A conveyance system for this retrofit was constructed in 2012. ASCD has applied for two different grants to fund construction of the pond, 1. MDE Clean Water Act Section 319/320 (Nonpoint Source) Projects grant - not awarded in Spring 2013; and 2. National Fish & Wildlife Foundation – Chesapeake Bay Innovative Nutrient and Sediment Reduction 2013 Funding Opportunity Cycle – not awarded in August 2013. The Allegany County DPW, in partnership with ASCD, has prepared an application for the Chesapeake & Atlantic Coastal Bays Trust Fund Capital Improvement Grant, submitted on January 29, 2014. We are hopeful to be awarded funding in March 2014 for construction of this stormwater retrofit pond.

Although additional large-scale retrofits are not included in the Final Phase II WIP MAST scenario, members of the MOTA group attended a Chesapeake Stormwater Network workshop entitled “Stormwater Retrofits Demystified” on June 13, 2012 in order to gather information to evaluate the cost-effectiveness and identify potential funding sources for this strategy. The MOTA group has identified the City of Frostburg as a target for stormwater retrofitting given the CSS separation that is ongoing and the experience gained from the Bobcat Court project. The MOTA group is also beginning to identify other opportunities for stormwater retrofits throughout the developed areas of the County.

The ASCD was awarded funding from the Chesapeake Bay Trust Restoration Grant for a stormwater retrofit project at Georges Creek Elementary School. The design includes five bioretention structures that will retrofit approximately 1-acre of rooftop and parking area. This project is scheduled to be constructed in Summer 2014.

3.3 Impervious Area Reductions

Both implementation and programmatic milestones were identified for this strategy.

Over the last two (2) years, funding for the Flood Buyout Program has not been secured to continue the “current” pace of implementation of 5-6 homes per year. One FEMA Hazard Mitigation Grant application was submitted and denied in 2011.

Flood buyout projects, which result in permanent impervious area reductions in the floodplain, are also discussed at the quarterly MOTA meetings, referenced in Section 3.1. In an effort to re-establish this program, a sub-committee of the MOTA group has reached out to the public in a local newspaper article dated January 14, 2014 whereby residents in the floodplain were again encouraged to contact the County to request a flood buyout. Once the County establishes a priority list of potential buyouts, applications will be made to Community Development Block Grant and FEMA Hazard Mitigation Grant opportunities in 2014.

3.4 Stream Restoration

Both implementation and programmatic milestones were identified for this strategy.

The MOTA group (identified in Section 3.2) conducted three (3) Field Days on March 1, 2012, April 12, 2012 and May 7, 2012 to evaluate existing conditions of stream segments in need of restoration. The result of this survey is a Stream Restoration Projects Priority List, which can be found in **Appendix D**. As resources are available, ACDPW and ASCD now use this list to prioritize and choose projects to complete. Emergency Watershed Protection (EWP) funding was awarded to ACDPW in Spring 2013 to complete two projects from this list: *Project W – Jennings Run at Woodcock Hollow* and *Project BB – Evitts Creek at F.O.P. Picnic Grounds*. Both projects are complete.

Allegany County DPW prepared an application for the Chesapeake & Atlantic Coastal Bays Trust Fund Capital Improvement Grant, submitted on January 29, 2014, for *Project AA – Evitts Creek behind Allegany College*. We are hopeful to be awarded funding in March 2014 for restoration of this stream segment and relocation of an existing sewer manhole out of the stream.

3.5 Abandoned Mine Reclamation

Both implementation and programmatic milestones were identified for this strategy.

Building on Abandoned Mine Reclamation capacity has been and will continue to be a focus of the Trees for TMDL group identified in Section 3.1. The January 3, 2013 Trees for TMDL Field Trip was jointly coordinated with Bureau of Mines (BOM) staff to visit properties that were historically mined and are now vacant fields with tree planting potential. With BOM participating in the Trees for TMDL group, one priority of the group is to pursue additional tree plantings on abandoned extractive lands.

DNR-Forest Service has applied to the Appalachian Forest Renewal (AFR) initiative for a grant to plant trees on 14 acres of abandoned mine lands. This will build on existing capacity. The AFR initiative is a partnership between NFWF and USFS to support forest restoration in the Appalachian coal mining region. The award announcement is expected in Spring 2014. If awarded, the Trees for TMDL group model results for “environmentally sensitive areas” will be referenced to guide selection of the 14-acre reforestation site.

Members of the Trees for TMDL group have established a partnership with NRCS, US Forest Service and Indiana University of Pennsylvania (IUP) to pursue additional reforestation of previously mined lands. The goals of this partnership are two-fold: 1) to build on mine land reforestation capacity for purposes of the WIP, and 2) to protect the threatened species, golden wing warbler. The funding is provided by the Natural Resources Conservation Service, Working Lands for Wildlife program and plantings are targeted to occur in Spring 2015.

3.6 Urban Nutrient Management

A programmatic milestone was identified for this strategy.

The Final Report on Recommendations of the Expert Panel to Define Removal Rates for Urban Nutrient Management, dated December 6, 2012, was reviewed by Allegany County staff. Notably, according to the Report, Figure 1, Allegany County has the least amount of turf grass (0-30,000 acres) as compared to other counties in the Bay watershed. At this time, Allegany County has determined that this strategy will not need to be pursued to meet our WIP goals. Allegany County is awaiting response from MDE staff as to whether an automatic credit is given based on the lawn fertilizer law that went into effect October 1, 2013. County staff will continue to monitor lawn fertilizer laws and incentives; however, active pursuit of additional urban nutrient management credit will likely not occur in the near future. Capacity of other strategies is being increased in lieu of this strategy at this time.

3.7 Street Sweeping

A programmatic milestone was identified for this strategy. To date, Allegany County has not determined that this strategy will need to be pursued to meet our WIP goals. However, in the event that our 2015 implementation milestones demonstrate a need to pursue “backup” strategies, Allegany County DPW staff will perform a cost/benefit analysis to evaluate the feasibility of establishing a qualifying street sweeping program. If results are favorable, Allegany County will partner with smaller jurisdictions within the county to share ideas for implementation, as well.

3.8 SEC on Extractive Lands

This strategy was not identified in our Final Phase II WIP due to lack of understanding of how this credit would be applied; however, Sediment and Erosion Control (SEC) on extractive lands is being administered in Allegany County by BOM. In 2013, Allegany County pursued a better understanding of how this existing strategy could be credited. This involved a number of conversations with Garrett County staff (SEC on extractive lands is sole strategy for meeting WIP goals), MDE staff and BOM staff. In January 2014, BOM staff reported 965 disturbed acres with sediment and erosion controls in place. This number represents an average number of acres disturbed with controls in place at any given time.

3.9 CSO/SSO Elimination

This strategy was identified in Section 5, Data Concerns/Discrepancies, of our Final Phase II WIP since partial separations could not be calculated in MAST or credited in the Bay Model. CSO/SSO eliminations are ongoing in several jurisdictions throughout Allegany County and we plan to report milestone implementation progress. Per judicial consent order, all separations and eliminations are to be completed by 2023, which is estimated by the Bay Model to reduce 31,000 pounds per year of nitrogen and 8,000 pounds per year of phosphorus.

A review of the Bay Model's mapped CSS areas for Allegany County was performed in December 2013 for accuracy, per MDE's request. It was determined that the map was, in fact, inaccurate. The CSS coverage was revised by Allegany County and City of Cumberland staff and returned to MDE in January 2014. Two changes were made, including: 1) LaVale area was removed since LaVale does not have a combined sewer system, and 2) Cumberland's boundary was modified for accuracy.

Notably, the City of Frostburg's CSS is approximately 50% separated and the Town of Westernport separations are also significantly underway. The City of Cumberland has chosen a capture and treat solution and is currently pursuing funding for construction to store 85% of overflow volume until it can be processed through the WWTP.

Appendix A

2013 BMP Implementation Progress

Allegany County 2012-2013 BMP Implementation Progress

January 30, 2014

Action	2012-2013 Annual Restoration Rate Goal		2012-2013 Proposed Restoration Rate (2 years)		2012 Actual Rate	2013 Actual Rate	2012-2013 Actual Rate (2 years)		% Progress
Urban Tree Plantings	5	ac/yr	10	ac	21.6	0.5	22.1	ac	221%
Stream Buffer Plantings	8	ac/yr	16	ac	6.5	27.5	34	ac	213%
Stormwater Retrofits	1.5	ac/yr	3	ac	3.7	6.1	9.8	ac	328%
Impervious Area Reduction	0.6	ac/yr	1.2	ac	0.5	0.2	0.7	ac	59%
Stream Restoration	800	LF/yr	1600	LF		710	710	LF	44%
Abandoned Mine Reclamation	75	ac/yr	150	ac	87	73	160	ac	107%
SEC on Extractive Lands*	0	ac	0	ac		965	965	ac	n/a
CSS Separation**	0	ac	0	ac		224	224	ac	n/a

* 965 acres represents an approximate number of the total acres in the disturbed condition at any given time, with sediment and erosion controls in place, as reported by MDE Abandoned Mine Lands Division on January 15, 2014.

** City of Frostburg reported 224 acres have been separated as of 2013. The total CSS area for Frostburg was 479 acres, therefore, Frostburg's separation is 47% complete as of 2013. It is unknown at this time how much reduction of nitrogen and phosphorus this represents. "Maryland Phase II WIP Strategies" Report (Report) provided by MDE in June 2012 indicates '2010 Progress' Nitrogen Load of 31,000 lb from CSO. Elimination of this load by 2023 is anticipated per multiple judicial consent orders (Cumberland, Frostburg, LaVale Sanitary District, Westernport, Luke). The Report also indicates that 44,000 pounds Nitrogen will be introduced (untreated stormwater) due to CSO separations; however, this is not accurate for 2 reasons: 1) Cumberland has chosen a "capture and treat" approach to their CSO consent order so there will not be new untreated stormwater discharges, and 2) the CSS area currently used in the Bay Model includes all of LaVale, which is not actually a CSS area (they are under SSO consent order to address I&I only). Allegany County provided an accurate CSS area (eliminating LaVale and adjustments to Cumberland) to Mr. Jeff White, MDE on January 22, 2014.

Appendix B

Trees for TMDL

“Trees for the TMDL”
Allegheny County Demonstration Project Team
CONTACT LIST

Allegheny County Government

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Using Structured Decision Making to Improve BMP Outcomes
Allegany County Demonstration Project - Partner Workshop

August 8, 2012
12:00 – 4:00 pm
Appalachian Laboratory

AGENDA

- I. Introductions and Agenda (**Keech**)
- II. Overview of “structured decision making” (**Keech**)
- III. Presentation: scientific tools for targeting BMPs (**Boomer, Elmore**)
- IV. Discussion: objectives, opportunities, challenges for BMP implementation (**All**)
- V. Discussion: identifying and mapping pollution sources in Allegany County (**All**)
- VI. Project Timeline, Next Steps (**Keech, Boomer**)

Workshop Outcomes

1. Participants have informed opinion about the benefits of using a SDM approach
2. Participants have general understanding of the modeling and analytical tools
3. Group has identified general objectives for BMP implementation in addition to Bay TMDL requirements
4. Group has identified pollution sources in addition to agricultural lands, next steps/ideas for mapping to incorporate into fine-scale modeling
5. Participants are updated on NFWF grant proposal, and understand the relationship of grant project to Allegany County demo

Using Structured Decision Making to Improve BMP Outcomes
Allegheny County Demonstration Project – Partner Workshop #2

January 15, 2013

10:00 – 12:00 noon

Allegheny County Office Complex
Commissioners Meeting Room 100

AGENDA

- I. Introductions and Agenda**
- II. Brief review of “structured decision making” *handout***
- III. Review, approval of draft Objectives *handout***
- IV. Discussion: Implementation Opportunities *(live GIS)***
 - Recap/review: initial model results
 - Potential opportunities – private lands, public lands, mine lands, others?
- V. Tee up for next time: Estimating Consequences**
- VI. Wrap up, Next Steps**
 - Next Workshop
 - Other items?

Appendix C

MOTA

ALLEGANY COUNTY STORMWATER COMMITTEE MEETING

March 15, 2012

Our next meeting is scheduled for Thursday, June 14, 2012 at 10:30 A.M. in the Allegany County Office Complex, Room 100.

In attendance:

Paul Kahl	Raquel Ketterman
Adam Patterson	Paul Busam
Elizabeth Stahlman	Brian McCormick
Ashleigh Fountain	Craig Hartsock
Amy Stonebreaker	Adam Heavner
Angie Patterson	

The following items were discussed at the meeting:

A. COMPLETED PROJECTS

1. Savage River Dam Gates Replacement

B. PROJECTS UNDERWAY

1. Bobcat Court SWM Pond

Awarded Phase I, Storm Drain Improvements, to Carl Belt for \$275,000; pond construction to occur at a later date.

2. Sand Springs Stream Restoration

Design is 90% complete. Permit applications have been sent to MDE and COE. Construction to start in Spring 2013.

3. Takoma Drive Drainage

Bids due May.

4. Fairgrounds Access Road to access the recently acquired Kimmel property - Will be completed prior to Memorial Day.

5. Potomac Hollow Road Bridge – Design is underway.

6. Cumberland CSO Project – Design is underway.

C. PLANNING PROJECTS

1. Fifteen Mile Creek Stream Stabilization

This project will be completed in conjunction with the Orleans Road Bridge Project. Applied to MDE for funding in January 2012.

2. German Street Ditch Restoration

Permit received. BOM may complete the project.

3. Preston Run/Hoffman Drainage Tunnel Stream Stabilization

Scope of project needs to be determined. Design has not started. BOM project.

4. Braddock Run at Red Hill – Bureau of Mines planning gob pile removal and mine opening closings. BOM contracted with CTL Engineering. Landowner issues have placed design on hold. Postponed due to other BOM project commitments.

5. Craig Hartsock and Roger Thomas reviewing preliminary engineering for the Eaton Young area. Cost estimate is \$40,000 to \$60,000.

6. SCS wants to coordinate a site visit with MDE regarding potential of removing deposition in Georges Creek; Town of Westernport requesting SCS assistance.

7. Road to FOP grounds is damaged by stream erosion. SCS to review site with MDE and COE prior to beginning design.

D. Other

1. Allegany County Floodplain Mapping

New LIDAR data will be provided by USGS. FIRM maps on hold. GIS user group meeting planned for May 18.

2. Amy Stonebreaker and Paul Kahl to request permission from the Commissioners to establish a potential flood buyout list.

E. FUTURE PROJECTS

1. Adam Patterson and Roger Thomas completed an estimate for restoring Georges Creek near southern limits of Town of Lonaconing. Project on hold. Cost estimate is \$2 Million. Problem area that should be investigated with SHA.

2. West Street at Braddock Run
Existing eight acres as potential Open Space Project.
3. Adam Patterson working with Pam Bush, DNR, to develop stream waiver requirements.
4. Ashleigh requested that applications that involve ARRA funding include a note regarding the funding. Mt. Savage Water/Jennings Run Sewer Improvements Project funded with ARRA funding.
5. A list of potential Stream Restoration Projects is attached.
6. A training seminar on maintaining dirt and gravel roads is planned for May 30 and 31 at Frostburg State University.

Please contact me if you have any additions or corrections.

Minutes Prepared by
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ALLEGANY COUNTY STORMWATER COMMITTEE MEETING

June 14, 2012

Our next meeting is scheduled for Thursday, September 13, 2012 at 10:30 A.M. in the Allegany County Office Complex, Room 100.

In attendance:

Paul Kahl	Raquel Ketterman
Adam Patterson	Paul Busam
Tarrie Ostrofsky	Brian McCormick
Dave Curry	Craig Hartsock
Dave Dorsey	Craig Kenney

The following items were discussed at the meeting:

A. COMPLETED PROJECTS

1. Bobcat Court SWM – Phase I Storm Drain Improvements
2. Fairgrounds Access Road

B. PROJECTS UNDERWAY

1. Sand Springs Stream Restoration
Design is 90% complete. Redesigning portion of the project. Permit applications have been sent to MDE and COE. Construction to start in Spring 2013.
2. Takoma Drive Drainage
Bid July 3 – Start construction late August, early September.
3. Potomac Hollow Road Bridge – Final plans submitted. Final review meeting to be held July 18.
4. Cumberland CSO Project – Design is underway. Meeting with Whitman, Requardt and Associates on June 25. Working on designing 5 million gallons of storage. Riverside Park Construction to start 2017.

C. PLANNING PROJECTS

1. Fifteen Mile Creek Stream Stabilization
Working on a revised plan. Applied to MDE for funding in January 2012.
2. German Street Ditch Restoration
Permit received. BOM bidding the project.
3. Preston Run/Hoffman Drainage Tunnel Stream Stabilization
Scope of project needs to be determined. Design has not started. BOM project.
4. Braddock Run at Red Hill – Bureau of Mines planning gob pile removal and mine opening closings. BOM contracted with CTL Engineering. Landowner issues have placed design on hold. Postponed due to other BOM project commitments.
5. Craig Hartsock and Roger Thomas reviewing preliminary engineering for the Eaton Young area. Cost estimate is \$40,000 to \$60,000.
6. Road to FOP grounds is damaged by stream erosion. SCS to review site with MDE and COE prior to beginning design.
7. Bobcat Court SWM Pond - \$500,000 needed to start project.

D. Other

1. Allegany County Floodplain Mapping
New LIDAR data will be provided by USGS. FIRM maps on hold.
2. Amy Stonebreaker and Paul Kahl to request permission from the Commissioners to establish a potential flood buyout list.

E. FUTURE PROJECTS

1. Adam Patterson and Roger Thomas completed an estimate for restoring Georges Creek near southern limits of Town of Lonaconing. Project on hold. Cost estimate is \$2 Million. Problem area that should be investigated with SHA.
2. West Street at Braddock Run
Existing eight acres as potential Open Space Project.
3. Adam Patterson working with Pam Bush, DNR, to develop stream waiver requirements.

4. Ashleigh requested that applications that involve ARRA funding include a note regarding the funding. Mt. Savage Water/Jennings Run Sewer Improvements Project funded with ARRA funding.

Please contact me if you have any additions or corrections.

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ALLEGANY COUNTY STORMWATER COMMITTEE MEETING

September 13, 2012

Our next meeting is scheduled for Thursday, December 13, 2012 at 10:30 A.M. in the Allegany County Office Complex, Room 100. Lunch will be provided.

In attendance:

Paul Kahl	Tarrie Ostrofsky
Adam Patterson	Dave Curry
Dave Dorsey	Paul Busam
Angie Patterson	Craig Hartsock
Brian McCormick	Adam Heavner
Amy Stonebreaker	Greg Hildreth

The following items were discussed at the meeting:

A. COMPLETED PROJECTS

1. German Street Ditch Restoration

B. PROJECTS UNDERWAY

1. Sand Springs Stream Restoration

Design is almost complete. Permit applications have been sent to MDE and COE. Construction to start in Spring 2013.

2. Takoma Drive Drainage

IA Construction given a Notice to Proceed on September 4.

3. Potomac Hollow Road Bridge – MDE reviewing plans. Construction to start in the Spring.
4. Cumberland CSO Project – Working on designing 5 million gallons of storage. Riverside Park Construction to start 2014. Design is 30% complete.
5. Holly Avenue Recreation Complex - \$70,000 Open Space Grant to complete drainage and field improvements. Coughenour Surveying designing project through LaVale Athletic Association.

C. PLANNING PROJECTS

1. Fifteen Mile Creek Stream Stabilization

Presently analyzing alternatives for bridge construction.

2. Preston Run/Hoffman Drainage Tunnel Stream Stabilization
Design has not started. BOM project.
3. Braddock Run at Red Hill – Bureau of Mines planning gob pile removal and mine opening closings. BOM contracted with CTL Engineering. Postponed due to other BOM project commitments.
4. Craig Hartsock and Roger Thomas reviewing preliminary engineering for the Eaton Young area. Cost estimate is \$40,000 to \$60,000.
5. Road to FOP grounds is damaged by stream erosion. County will survey site and SCS will design improvements.
6. Bobcat Court SWM Pond - \$500,000 needed to start project. Looking at reducing project cost to \$120,000 utilizing fly ash and Portland cement.
7. Tree Planting Program – Craig Hartsock and Angie Patterson to apply for tree grant.

D. Other

1. Allegany County Floodplain Mapping
Hoping for revised mapping this Fall.
2. Amy Stonebreaker and Paul Kahl to request permission from the Commissioners to establish a potential flood buyout list.

E. FUTURE PROJECTS

1. Adam Patterson and Roger Thomas completed an estimate for restoring Georges Creek near southern limits of Town of Lonaconing. Project on hold. Cost estimate is \$2 Million. Will probably affect SHA wall along Route 36.
2. West Street at Braddock Run
Existing eight acres as potential Open Space Project.
3. Adam Patterson working with Pam Bush, DNR, to develop stream waiver requirements.

Please contact me if you have any additions or corrections.

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ALLEGANY COUNTY STORMWATER COMMITTEE MEETING

December 13, 2012

Our next meeting is scheduled for Thursday, March 14, 2013 at 10:30 A.M. in the Allegany County Office Complex, Room 100.

In attendance:

Paul Kahl	Elizabeth Stahlman
Adam Patterson	Dave Curry
Dave Dorsey	Paul Busam
Angie Patterson	Raquel Ketterman
Brian McCormick	Adam Heavner
Greg Hildreth	

The following items were discussed at the meeting:

A. COMPLETED PROJECTS

1. Portertown Road

B. PROJECTS UNDERWAY

1. Sand Springs Stream Restoration

Design is almost complete. Bureau of Mines is reducing scope and revising permit application. Construction to start in Spring 2013.

2. Takoma Drive Drainage

Project 70% complete. Route 36 crossing to be completed in June 2013.

3. Potomac Hollow Road Bridge – Design complete. Construction to start in the Spring.

4. Cumberland CSO Project – Working on designing 5 million gallons of storage. Riverside Park Construction to start 2014. Design is 60% complete.

5. Holly Avenue Recreation Complex - \$70,000 Open Space Grant to complete drainage and field improvements.

C. PLANNING PROJECTS

1. Fifteen Mile Creek Stream Stabilization

Presently analyzing alternatives for bridge construction.

2. Preston Run/Hoffman Drainage Tunnel Stream Stabilization
Design has not started. BOM project.
3. Braddock Run at Red Hill – Bureau of Mines planning gob pile removal and mine opening closings. BOM contracted with CTL Engineering. Postponed due to other BOM project commitments.
4. Craig Hartsock and Roger Thomas reviewing preliminary engineering for the Eaton Young area. Cost estimate is \$40,000 to \$60,000.
5. Road to FOP grounds is damaged by stream erosion. County will survey site and SCS will design improvements. Potential EWP Project.
6. Bobcat Court SWM Pond – Phase I complete. Need to find funding for Phase II.
7. Tree Planting Program – State Grant was awarded for \$130,000. Dan DeWitt will be project manager.

D. Other

1. Allegany County Floodplain Mapping – Planned for 2014
2. Amy Stonebreaker and Paul Kahl to request permission from the Commissioners to establish a potential flood buyout list.

E. FUTURE PROJECTS

1. Adam Patterson and Roger Thomas completed an estimate for restoring Georges Creek near southern limits of Town of Lonaconing. Project on hold. Cost estimate is \$2 Million. Will probably affect SHA wall along Route 36.
2. West Street at Braddock Run
Existing eight acres as potential Open Space Project.
3. Adam Patterson working with Pam Bush, DNR, to develop stream waiver requirements.
4. County applying for EWP Projects as a result of Hurricane Sandy.
5. Angie Patterson handed out a Stream Restoration Potential Project List. After the meeting, Angie emailed our members.

Please contact me if you have any additions or corrections.

Minutes Prepared by
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ALLEGANY COUNTY STORMWATER COMMITTEE MEETING

March 14, 2013

Our next meeting is scheduled for Thursday, June 20, 2013 at 10:30 A.M. in the Allegany County Office Complex, Room 100.

In attendance:

Adam Patterson	Joe DaVia
Angie Patterson	Jack Dinne
Paul Busam	

The following items were discussed at the meeting:

A. COMPLETED PROJECTS

1. Portertown Road

B. PROJECTS UNDERWAY

1. Sand Springs Stream Restoration

Design is almost complete. Bureau of Mines is reducing scope and revising permit application. Construction start to be determined. Project area is from Lower Consol Road to University Drive.

2. Takoma Drive Drainage

Project 70% complete. Route 935A crossing to be completed by August 2013.

3. Potomac Hollow Road Bridge – Design complete. Construction to start in late summer.

4. Cumberland CSO Project – Working on designing 5 million gallons of storage. Riverside Park Construction to start 2014. Design is 60% complete. MDE application submitted.

5. Holly Avenue Recreation Complex - \$70,000 Open Space Grant to complete drainage and field improvements.

C. PLANNING PROJECTS

1. Fifteen Mile Creek Stream Stabilization

Presently analyzing alternatives for bridge construction.

2. Preston Run/Hoffman Drainage Tunnel Stream Stabilization

Design has not started. BOM project.

3. Braddock Run at Red Hill – Bureau of Mines planning gob pile removal and mine opening closings. BOM contracted with CTL Engineering. Postponed due to other BOM project commitments.
4. Craig Hartsock and Roger Thomas reviewing preliminary engineering for the Eaton Young area. Cost estimate is \$40,000 to \$60,000.
5. Road to FOP grounds is damaged by stream erosion. County will survey site and SCS will design improvements. Potential EWP Project.
6. Bobcat Court SWM Pond – Phase I complete. SCD submitted grant request for Phase II.
7. Tree Planting Program – State Grant was awarded for \$130,000. Dan DeWitt will be project manager. Project to be completed by May 1.
8. German Street Slide in Barton – BOM Project – Application submitted to MDE.
9. Jefferies Road Crossing – Existing crossing received damage as a result of Hurricane Sandy. Allegany County will be preparing plans for replacement. Pre-application meeting with MDE was held on February 7, 2013.
10. Allegany County was approved for EWP funds through NRCS for seven (7) sites damaged during Hurricane Sandy. Permitting and design phase will begin in April.

D. FUTURE PROJECTS

1. Adam Patterson and Roger Thomas completed an estimate for restoring Georges Creek near southern limits of Town of Lonaconing. Project on hold. Cost estimate is \$2 Million. Will probably affect SHA wall along Route 36.
2. West Street at Braddock Run

Existing eight acres as potential Open Space Project.
3. Angie Patterson handed out a Stream Restoration Potential Project List. The priority list is included with the minutes.

D. Other/General Discussion

1. Allegany County Floodplain Mapping – Meeting between FEMA and AMEC. There is not time frame for map completion. Project currently in funding phase.
2. Amy Stonebreaker and Paul Kahl to request permission from the Commissioners to establish a potential flood buyout list.

3. USACOE to send information regarding "Emergency Authorizations".
4. MDE/AC/USACOE to coordinate regarding any active MDGSP3 projects. Completion deadline for projects is December 31, 2013.

Please contact me if you have any additions or corrections.

Minutes Prepared by
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ALLEGANY COUNTY STORMWATER COMMITTEE MEETING

June 20, 2013

Our next meeting is scheduled for Thursday, October 3, 2013 at 10:30 A.M. in the Allegany County Office Complex, Room 100.

In attendance:

Adam Patterson	John Policarpo
Angie Patterson	Jack Dinne
Paul Busam	

The following items were discussed at the meeting:

A. COMPLETED PROJECTS

1. Tree Planting Program – State Grant was awarded for \$130,000. Dan DeWitt will be project manager. Project to be completed by May 1.

B. PROJECTS UNDERWAY

1. Sand Springs Stream Restoration

Design is almost complete. Permit to be issued soon. Bureau of Mines is reducing scope and revising permit application. Construction start to be determined. Project area is from Lower Consol Road to University Drive.

2. Takoma Drive Drainage – construction to resume soon

Project 70% complete. Route 935A crossing to be completed by August 2013.

3. Potomac Hollow Road Bridge – Design complete. Construction to start in late summer.

4. Cumberland CSO Project – Working on designing 5 million gallons of storage. Riverside Park Construction to start 2014. Design is 60% complete. MDE application submitted. Public Notice period over; updated construction drawings pending.

5. Holly Avenue Recreation Complex - \$70,000 Open Space Grant to complete drainage and field improvements; coordination meeting needed.

C. PLANNING PROJECTS

1. Fifteen Mile Creek Stream Stabilization

Presently analyzing alternatives for bridge construction.

2. Preston Run/Hoffman Drainage Tunnel Stream Stabilization

Design has not started. BOM project.

3. Bobcat Court SWM Pond – Phase I complete. SCD submitted grant request for Phase II.
4. German Street Slide in Barton – BOM Project – Application submitted to MDE.
5. Jefferies Road Crossing – Existing crossing received damage as a result of Hurricane Sandy. Allegany County will be preparing plans for replacement. Pre-application meeting with MDE was held on February 7, 2013. Construction planned for summer/fall 2013.
6. Allegany County was approved for EWP funds through NRCS for seven (7) sites damaged during Hurricane Sandy. Permitting and design phase will begin in April. Contract advertised and construction planned for summer 2013.

D. FUTURE PROJECTS

1. Adam Patterson and Roger Thomas completed an estimate for restoring Georges Creek near southern limits of Town of Lonaconing. Project on hold. Cost estimate is \$2 Million. Will probably affect SHA wall along Route 36.
2. West Street at Braddock Run

Existing eight acres as potential Open Space Project.
3. Angie Patterson handed out a Stream Restoration Potential Project List. The priority list is included with the minutes.
4. Braddock Run at Red Hill – Bureau of Mines planning gob pile removal and mine opening closings. BOM contracted with CTL Engineering. Postponed due to other BOM project commitments.
5. Craig Hartsock and Roger Thomas reviewing preliminary engineering for the Eaton Young area. Cost estimate is \$40,000 to \$60,000.

D. Other/General Discussion

1. Allegany County Floodplain Mapping – Meeting between FEMA and AMEC. There is not time frame for map completion. Project currently in funding phase.
2. Amy Stonebreaker and Paul Kahl to request permission from the Commissioners to establish a potential flood buyout list.

Please contact me if you have any additions or corrections.

Minutes Prepared by
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ALLEGANY COUNTY STORMWATER COMMITTEE MEETING

December 18, 2013

Our next meeting is scheduled for Thursday, March 13, 2014 at 10:30 A.M. in the Allegany County Office Complex, Room 100.

In attendance:

Paul Kahl	Amy C.M. Stonebreaker
Adam Patterson	Paul Busam
Dan DeWitt	Elizabeth Stahlman
Angie Patterson	

The following items were discussed at the meeting:

A. COMPLETED PROJECTS

1. German Street Slide in Barton (aka the Kiddy Landslide Project) – AML Division Project – project completed.
2. Jefferies Road Crossing – ACDPW Project – project complete.
3. EWP Projects – ACDPW Project – project complete.

B. PROJECTS UNDERWAY

1. Sand Springs Stream Restoration

Design is complete and all the Permits have been issued. Project area is from Lower Consol Road to University Drive. Project plans have been sent to the Department of General Services for bidding. Construction is scheduled to begin in summer of 2014.

2. Potomac Hollow Road Bridge – Bid awarded contingent upon MSHA approval; construction to start in spring 2014.
3. Cumberland CSO Project – Working on designing 5 million gallons of storage. Riverside Park Construction to start 2014. Design is 60% complete. MDE application submitted. Public Notice period over; updated construction drawings pending. MDE waterway construction permit has been issued.

C. PLANNING PROJECTS

1. Fifteen Mile Creek Stream Stabilization - Presently analyzing alternatives for bridge construction.
2. Preston Run/Hoffman Drainage Tunnel Stream Stabilization - Project is on-hold for an undetermined amount of time. Project design will resume when funding becomes available.

3. Bobcat Court SWM Pond/Evitts Creek Stream Restoration – Phase I complete. SCD & AC requesting grant funds from DNR.
4. Braddock Run Stream Restoration – A spring construction is planned for a section of Braddock Run near Locust Street.
5. Union Street Bridge Island Removal – Town of Lonaconing.
6. Flood Buyout – Green Street Trailer Park – City of Frostburg.

D. FUTURE PROJECTS

1. Adam Patterson and Roger Thomas completed an estimate for restoring Georges Creek near southern limits of Town of Lonaconing. Project on hold. Cost estimate is \$2 Million; will probably affect SHA wall along Route 36.
2. West Street at Braddock Run - Existing eight acres as potential Open Space Project.
3. The latest Stream Restoration Potential Project List is included with the minutes. Projects in “red” that have been crossed out are completed.
4. Braddock Run at Red Hill – AML Division planning gob pile removal and mine opening closings. AMLD contracted with CTL Engineering. Postponed due to other AMLD project commitments.
5. Craig Hartsock and Roger Thomas reviewing preliminary engineering for the Eaton Young area. Cost estimate is \$40,000 to \$60,000.
4. Holly Avenue Recreation Complex - \$70,000 Open Space Grant to complete drainage and field improvements; coordination meeting needed.

D. Other/General Discussion

1. Allegany County Floodplain Mapping – Meeting between FEMA and AMEC. There is not time frame for map completion. Project currently in funding phase.
2. Amy Stonebreaker and Paul Kahl to request permission from the Commissioners to establish a potential flood buyout list. The regulations have changed and potential buyouts will become easier to process. Public awareness of the regulations is needed.

Please contact me if you have any additions or corrections.

Minutes Prepared by
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Appendix D

Stream Restoration Projects Priority List

ID	PROJECT LOCATION	SITE VISIT	PHOTOS Angie's Computer	PROTECT INFRASTRUCTURE	RESTORATION CREDIT			FUNDING NEEDED		PROBLEM	POTENTIAL SOLUTION	OTHER NOTES
					STREAM RESTORATION	IMP AREA REDUCTION	STREAM BUFFER PLANTING	PLANNING/ DESIGN	CONSTRUCT			
A	WILLS CREEK @ Braddock Run Confluence	4/12/2012	✓	✓ (LaVale Sanitary)					✓	Encasement may be exposed, need funding to investigate	Deeper encasement, cross vein	
B	WILLS CREEK @ IA Batch Plant haul road crossing	4/12/2012	✓		✓	✓	✓	✓		Bridge constricts flow, channel overflows into unstable floodplain, floodplain covered in dumped concrete/asphalt	Remove bridge, remove impervious area, plant FP, remove sand stockpiles from FP	
C	BRADDOCK RUN below Cumberland Concrete	4/12/2012	✓	✓ (LaVale Sanitary)	✓				✓	Concrete wall failing just upstream of Wills confluence		
D	BRADDOCK RUN upstream of Fayette Street	4/12/2012	✓		✓			✓		Stream bank erosion, slippage from old RR bed, sedimentation creating islands	Current photos compared with Adam's 2007 photos show no significant change, "bandaids" circa 2000 in response to '96 floods	*Canaan Valley provides service to estimate amt of erosion
E	BRADDOCK RUN between West Street and Oaklawn	4/12/2012	none taken		✓			✓		Stream bank erosion, sedimentation creating linear island		West St bridge funded through SCD (OP Road), FP many landowners, potential for linear park, flood buyout @ West St - adopted lot
F	BRADDOCK RUN @ Locust Street (behind BP)	4/12/2012	✓	✓ (LaVale Sanitary, BP parking, Lions Field)	✓				✓	Stream bank erosion	imbricated or concrete wall to stabilize	Adam has survey and some design done; 4/3/13 Adam to pursue this one with extra EWP \$. 12/2013 EWP didn't happen; Adam to pursue with leftover Braddock Run Stream Rest. \$
G	BRADDOCK RUN @ Long John Silvers	4/12/2012	✓		✓				✓	Stream bank erosion @ 90 degree bend	imbricated wall	
H	BRADDOCK RUN below Clarysville, confluence of Preston Run and Porter Run	4/12/2012	✓	✓ (powerline, SHA)	✓				✓	Stream bank erosion @ bend	imbricated wall	
I	PRESTON RUN along RT 55 upstream of Hoffman Tunnel	4/12/2012	✓		✓				✓	Stream bank erosion	stabilize stream banks	*Review Braddock Problem Study done w/in last 10 yrs (DNR, Craig) 4/23/12 Paul K looking for study; 12/13/12-discussed @ MOTA - this may be the "Planned Project" by BOM
J	SAND SPRING RUN @ Hovatter property	4/12/2012	✓	✓ (sewer)	✓				✓	Sedimentation due to erosion in upper reaches (FSU, etc)		
K	WINEBRENNER RUN @ Midlothian Church	4/12/2012	✓	✓ (sewer, church parking)	✓				✓	Stream bank erosion	wall	
L	GEORGES CREEK @ Midland ballfields	4/12/2012	✓		✓				✓	Slippage above imbricated wall	Remove top above slippage, lay back	
M	GEORGES CREEK @ Red Rose Lane	4/12/2012	✓	✓ (private dwelling)	✓				✓	Stream bank erosion, slippage		
N	GEORGES CREEK @ Moscow St/Meece Street (Private RR)	4/12/2012	✓	✓ (private RR bed)	✓				private	Stream bank erosion undercutting RR bed	New private owner of RR bed to fund project to stabilize	*BB&A doing permitting; 12/13/12 MOTA Mtg-Paul Busam indicated permit will soon be issued; 3/14/13 Busam indicated permit issued
O	BUTCHER RUN upstream of Barton	4/12/2012	✓		✓			✓		Stream bank erosion, slippage		
P	GEORGES CREEK @ Winebrenner Run confluence in Shaft	3/1/2012	✓	✓ (sewer)	✓			✓		Erosion/sedimentation causing stream to "jump around", interfering with sewer line		Dec 13: Perhaps we could tackle this one if we get the DNR grant for Bobcat/AC
Q	GEORGES CREEK between Union St and Detmold Rd, Lonaconing	5/7/2012	none taken	?	✓				✓	Undercutting @ downstream end		Previous repairs completed
R	GEORGES CREEK @ Barton Firehall	5/7/2012	✓	✓ (waterline encasement)	✓				✓	Severe undercutting due to waterfall; fish blockage		High cost, waterline encasement OK for now
S	MILL RUN @ Confluence w/ Georges Creek, S of Barton	5/7/2012	✓	✓ (bridge/Lower Georges Creek Rd)	✓				✓	Undercutting due to waterfall		
	GEORGES CREEK Tributary in Westernport, west side											Couldn't find on 5/7/2012
T	GEORGES CREEK Tributary in Westernport, east side	5/7/2012	✓	✓ (roads)	✓				✓	Stream bank erosion	Stabilize stream banks	Marsh property @ Green Street/Marsh Ave, unauthorized culvert removed, need culvert to access existing undeveloped lots
	GEORGES CREEK abandoned RR culverts											
U	JENNINGS RUN @ Kennel Property, Mt. Savage	5/7/2012	✓	✓ (SHA bridge)	✓				✓	Stream bank erosion upstream of bridge, erosion around wall extending upstream from bridge	extend wall	high cost to protect Kennel yard; SHA responsible
V	JENNINGS RUN Tributary behind homes on Foundry Row	5/7/2012	✓	✓ (homes - flooding)					✓	Channel/culvert under Foundry Row traps sediment, clogs, causes flooding, high maintenance	extend existing "constructed" stream along Patty Baker Ln straight to Jennings rather than making turn behind Foundry Row homes	
W	JENNINGS RUN Tributary @ Woodcock Hollow	5/7/2012	none taken	✓ (road)	✓				✓	Stream bank erosion undercutting Sunnyside Road	imbricated wall	Design/Permit done; 12/13/12 - may be funded by NRCS EWP in response to Sandy. 4/3/13 EWP Project in the works. 12/2013 Project Complete
X	JENNINGS RUN abandoned RR culvert @ New Hope Rd	5/7/2012	✓	?	✓				✓	Stream bank erosion downstream, sediment buildup upstream could cause blockage, fish blockage, culvert condition unknown	remove culvert, open channel, stabilize banks	
Y	JENNINGS RUN E of Barrelville behind homes, opposite Portertown Rd	5/7/2012	none taken		✓				✓	Stream bank erosion/slippage, wall failing	New walls	Windshield survey
Z	JENNINGS RUN behind Lions Park, Mt Savage	5/7/2012	none taken		✓				✓	Stream bank erosion		Windshield survey
	JENNINGS RUN Tributary between MD36 and New Hope Rd				✓			✓		Stream channel braided, impacting box culvert under RR		BOM may consider?
AA	EVITTS CREEK behind Allegany College	3/1/2012	✓	✓ (sewer)	✓				✓	Stream bank erosion, sewer manhole exposed	move sewer line, stabilize stream bank	
BB	EVITTS CREEK @ F.O.P Picnic Grounds/Devlin Manor			✓ (sewer, road)	✓				✓	Stream bank erosion, road and sewer line in jeopardy		12/13/12 - may be funded by NRCS EWP in response to Sandy-12/2013 Project Complete
CC	TOWN CREEK											
DD	MURLEYS BRANCH Tributary to Town Creek											
EE	WARRIOR RUN @ Eaton Young Property			✓ (Eaton Young)	✓			✓		Existing culvert constricts flow, causes flooding	replace culvert, etc.	
FF	Tributary behind homes on Lower Consol Road											
	Attendance		Attendance									
	Field Day #1 - April 12, 2012		Field Day #2 - May 7, 2012									
	Angie Patterson		Angie Patterson									
	Christyna McCormick		Dan DeWitt									
	Dan DeWitt		Adam Patterson									
	Adam Patterson		Paul Kahl									
	Roger Thomas		Roger Thomas									
			Craig Hartsock									