

Baltimore City Phase II Watershed Implementation Plan (WIP)
Update: December 26, 2013

Phase II WIP Milestone	Status	Additional Information / Comments
Implementation Milestones by end of FY 2013		
Complete Watershed Assessment report for Direct Harbor Watershed	In progress	Delayed due to available funding and coordination of contracts. Anticipate completion by the December 2014.
Complete WIP for MS4 compliance (greater detail of 20% restoration efforts)	In progress	Postponed to December 2014 based on receipt of MS4 permit in December 2013.
Initiate Growing Green Initiative	Complete	Currently at the inter-agency level for the City. Demonstration projects are in the planning stage.
Participate in research to quantify benefits of proposed methods for load reductions	In progress	In coordination with the Urban Waters Federal Partnership and Baltimore Ecosystem Study. Will be on-going throughout TMDL. Specific research focuses were identified by December 2013.
Complete investigation / study, initiate design and possibly permitting of the following BMP projects: <ul style="list-style-type: none"> • Stream restoration for 5 miles of restoration • ESD Practices for 5 acres • Impervious removal of 10 acres • Urban tree plantings to increase tree canopy 1%. 	Not started	Delayed due to available funding and pending the receipt of the MS4 permit. Anticipate completion within the first year of the MS4 permit.
Program Milestones by end of FY 2013		
Receive NPDES Phase I MS4 Permit, issue by MDE.	Completed	Received December 27, 2013.
Initiate WIP Task Force.	Not started	Postponed to June 2014 based on receipt of MS4 permit in December 2013.
Increase staff of SWMD- Environmental Engineering Section by 1 FTE to manage CIP projects. Additional engineering consulting contracts will be initiated.	In progress	Candidate selection still on-going. Program management engineering consultant initiated in December 2013 to have work start by June 2014.
Increase staff of SWMD – Plans Review Section by 2 FTE to review anticipated CIP projects and stormwater	In progress	One engineer was hired, but then one left. Supervisor was hired Dec. 23, 2013 and

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fee credit applications.		replacement engineer is set for spring 2014.
Develop standardize designs and supporting calculations for ESD practices to facilitate project reviews and decrease design costs.	In progress	Bio-inlet developed in coordination between DPW and DOT. Project selection criteria developed as part of the Green Pattern Book, with technical details scheduled to be completed as on-going progress, following the actual implementation (and lessons learned) of projects in the City and surrounding Counties.
Finalize and distribute updated Stormwater Management Guidelines for City, which interpret stormwater ordinance and provide design guidance. Provide training sessions to City staff and private developer community.	In progress	Application forms complete. Full guidance document scheduled for spring 2014.
Develop Facility Greening expedited review process and guidance documents as incentive for private participation in impervious area removal.	In progress	Will be covered as "restoration projects" in Guidance document.
Develop work plan for implementing a stormwater offset banking system which will allow developers or other third parties to construct stormwater BMPs and earn "credits" that can be sold to developers who cannot meet existing on-site stormwater management requirements; thereby creating a new commodity in land acquisition and development.	Complete	Grant-funded work was complete in December 2013 but more work / interest is needed. Simple banks have been established for city agencies. More complex systems will be explored for private developers in 2014.
Complete feasibility studies for private participation incentive programs, such the Adopt-the-Green program and STORM centers.	In progress	Coordinated effort with Urban Waters Federal Partnership and the office of Sustainability. Scope has expanded to include deconstruction activities as part of Vacants to Value. Anticipate completion

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		of feasibility in Spring 2014.
Complete feasibility study for the use of recycled materials in BMP construction as a sustainable alternative to material disposal.	In progress	Coordinated effort with Office of Sustainability and and US Forest Service. This will be part of STORM center evaluation.
Introduce bill to City Council to adopt a stormwater fee to provide sustainable funding for TMDL compliance projects. If adopted, implement the fee.	Complete.	Ordinance 12-0155 approved prior to July 2013.
Develop Access database and GIS tracking tool for all proposed and constructed BMPs.	In progress	Delayed due to available funding and coordinated efforts with MDE reporting requirements. Completion anticipated within the first year of the MS4 permit.
Update Zoning Code to encourage smart growth.	In progress	Part of Transform Baltimore. Legislation was introduced in Spring 2013. Anticipate adoption by 2015.
Approve the City's Landscape Manual that integrates ESD practices within landscape areas.	In progress	Part of Transform Baltimore