



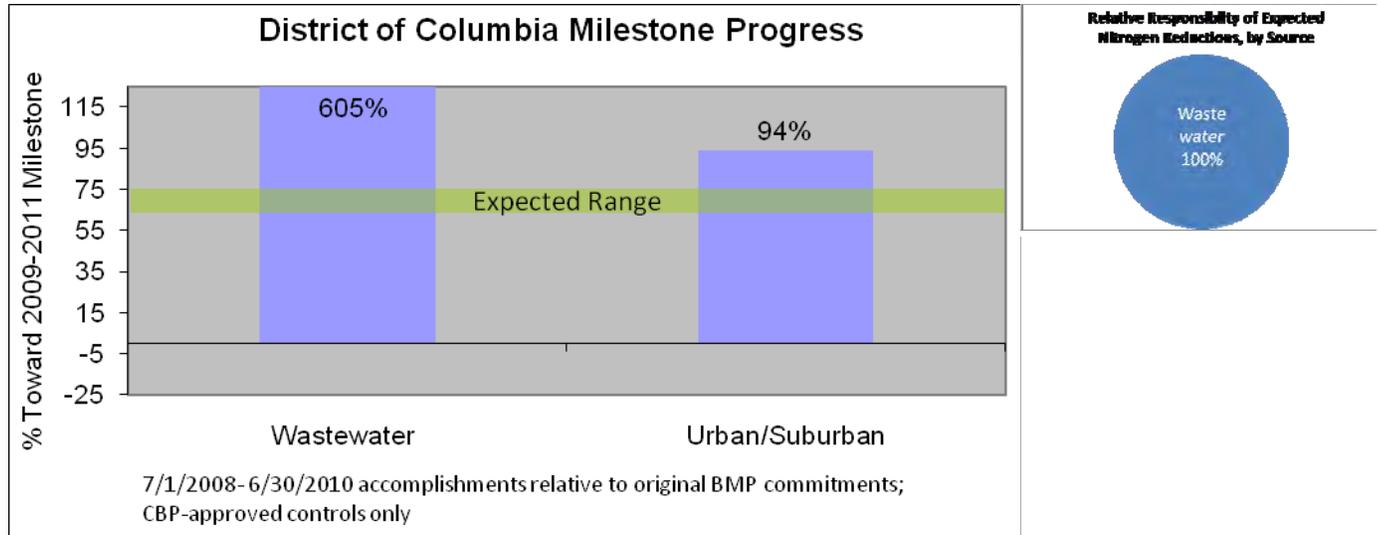
# District of Columbia 2011 Milestones to Reduce Nitrogen & Phosphorus Interim Progress Assessment June 2011



## Introduction

During the 2009 Chesapeake Executive Council meeting, the mayor of the District of Columbia set short-term goals to reduce pollution to the Bay and dramatically accelerate the pace of restoration. The District's 2011 milestone commitments are to reduce nitrogen by 159,000 pounds during the three-year period, 2009-2011. DC is ahead of schedule to meet these commitments. See below for an interim assessment of progress.

## Percent of Milestone that Has Been Implemented



## Interim Progress Highlights

More than 1,500 homes have been audited through the RiverSmart Homes Program. This is a program focusing on lot-level stormwater retention/detention practices which include incentives for homeowners to install landscaping features, such as shade trees and porous paving to improve water quality through stormwater control methods. Due to the District Department of the Environment's (DDOE) successful outreach and education campaign, more than 3,000 DC homeowners are interested in the RiverSmart Homes Program and are on a waiting list to be audited.

## Current and Anticipated Shortfalls

The District will fall short on 2 milestones: green roof coverage and the tree canopy goal.

## Contingencies to Address Shortfalls

Unfortunately, the 2 year milestone for square feet of green roof coverage was miscalculated. Currently 1.3 million square feet of green roof have been approved for construction on 128 buildings through spring 2012. The goal is to have 2.5 million square feet of green roof installed by 2017.

The District is currently behind on our tree canopy goal. Efforts through DC agencies and non profits are meeting with the provisions detailed in the District's MS4 permit, of planting 4150 trees per year. However, in order to increase the urban tree canopy by 5% in 25 years, 8600 trees need to be planted each year. The hope is that through a partnership with the federal agencies and lands in the District that this goal will eventually be met. DC does not currently have tree planting data from the federal land holders in DC that comprise almost 30% of the land area. DC plans to work together with our Federal and sister agency partners through the WIP phase 2 process to meet its tree canopy goal.

**Interim Progress**

**Approved Controls Included in 2009-2011 Milestone Commitments**

	<b>2009-2011 Commitment</b>	<b>% Achieved (7/1/08- 6/30/10)</b>
<b>Urban/Suburban:</b>		
Stream Restoration, 2.7 miles of Watts and Pope Branches (linear feet)	14,256	25%
Tree Planting, 4150 trees (30 acres) per year	30	100%
<b>Wastewater:</b>		
Wastewater Nitrogen (N lbs reduced)	159,000	605%

**Controls Not Included in 2009-2011 Milestone Commitments (e.g. "Contingencies")**

	<b>Amount Completed</b>
Wastewater Phosphorus (P lbs reduced)	15,264

**"Interim" Controls Included in 2009-2011 Milestone Commitments**

	<b>2009-2011 Commitment</b>	<b>% Achieved (7/1/08- 6/30/10)</b>
Downspout Connections (connections)	300	325%
Green Roofs* (square feet)	2,500,000	52%
Litter Trap Installation Demo Projects (pounds trash diverted)	6,800	100%
Rain Barrels (barrels)	250	390%
Rain Gardens (gardens)	100	92%
Retrofit Catch Basins for Trash Control (catch basins)	100	200%
Sanitary Sewer Replacement (miles)	1.5	25%
Storm Drain Marker Installation (markers/yr)	1,000	100%
Tree Canopy Expansion (percent increase)	5	45%

\* Unfortunately, the number for this 2 year milestone was miscalculated and this goal will not be met. Currently 1.3 million square feet of green roof have been approved for construction on 128 buildings through spring 2012. The goal is to have 2.5 million square feet of green roof installed by 2017.

**Programmatic Controls in 2009-2011 Milestone Commitments**

	<b>Status</b>
ENR – Award Contract for design by June 1, 2009	Completed
ENR – Award contract for construction by December 31, 2011	Completed
CSO reductions – completion of nine minimum control projects in May 2009	Ongoing
Create new tree box standards to allow for better tree growth	In progress
Develop lot-level residential stormwater detention/retention through RiverSmart Homes incentive program	Ongoing
Train federal facilities on new stormwater requirements	Ongoing
Implement a program to control discharges from District and federally owned facilities	Ongoing
Strengthen auto repair shop education campaign in Hickey Run (pilot)	Completed
Inspect all auto repair shops, laundromats and dry cleaners at least once every five years	Completed
Develop and implement a pet waste strategy	Ongoing
Mandate installation and use of pumpout stations at all District marinas	Completed
Complete a DPW street sweeping study and implement long-term enhanced street sweeping and fine particle removal	Completed
Implement and promote new stormwater regulations that require LID construction as a first option and mandate training for site managers	In progress
Implement an impervious area-based stormwater fee	Completed
Review and update zoning regulations to encourage green building	Ongoing
Determine the type of trash control devices that would be the most effective in retaining large debris and sediment in hot-spot areas identified by a trash survey	In progress
Incorporate LID into 24 percent of all District DOT projects	Completed