



# 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. DC's 2011 milestone commitment is to reduce nitrogen by 159,000 pounds during the three-year period, 2009-2011. An interim assessment of pollution control practices being implemented to achieve this reduction follows. As of June 2010, DC is generally ahead of schedule. A final assessment of load reductions achieved during the entire three-year period will be available at next year's EC meeting.

### Interim Progress

#### **Pollution Control Practices Included in 2009-2011 Milestone Commitments**

	<b>2009-2011 Commitment</b>	<b>% Achieved (7/1/08- 6/30/10)</b>
<b>Urban/Suburban:</b>		
Downspout Connections (connections)	300	<b>325%</b>
Green Roofs* (square feet)	2,500,000	<b>52%</b>
Litter Trap Installation Demo Projects (pounds trash diverted)	6,800	<b>100%</b>
Rain Barrels (barrels)	250	<b>390%</b>
Rain Gardens (gardens)	100	<b>92%</b>
Retrofit Catch Basins for Trash Control (catch basins)	100	<b>200%</b>
Sanitary Sewer Replacement (miles)	1.5	<b>25%</b>
Storm Drain Marker Installation (markers/yr)	1,000	<b>100%</b>
Stream Restoration, 2.7 miles of Watts and Pope Branches (linear feet)	14,256	<b>25%</b>
Tree Canopy Expansion (percent increase)	5	<b>45%</b>
Tree Planting, 4150 trees (30 acres) per year	30	<b>100%</b>
<b>Wastewater:</b>		
Wastewater Nitrogen (N lbs reduced)	159,000	<b>605%</b>

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

#### **Pollution Control Practices D.C. Substituted for Original 2009-2011 Milestone Commitments**

*(i.e. "Contingencies")*

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

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## Programmatic Controls in 2009-2011 Milestone Commitments

	Status
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	Ongoing
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	Ongoing
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	Ongoing
Incorporate LID into 24 percent of all District DOT projects	Completed

### 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 the 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% (from 35% to 40% by 2035), 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 hopes for coordination from federal and District sister agency partners through the WIP phase 2 process to meet its tree canopy goal. Without federal cooperation, DC cannot meet this important and aggressive 40% goal outlined by the Mayor's incoming commitment in 2009.

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