

## Appendix 32 – Clean Rivers Project

The Long Term Control Plan (DC Clean Rivers Project) Consent Decree, entered in 2005 included requirements relating to low impact development retrofit (LIDR) such as requiring the expenditure of \$3 million to incorporate LIDR into new construction or reconstruction on DC Water facilities. This project is currently in construction and on scheduled to be complete by early 2014.

In addition it required DC Water to take into account data from demonstration projects on its own or other property in the District when designing the Potomac and Rock Creek tunnels to determine if this data would support a reduction in the capacity of these tunnels. DC Water is exploring this opportunity to the fullest extent and plans to embark on a significant green infrastructure initiative. Under the current Consent Decree schedule DC Water needs to begin facility planning for the Potomac and Rock Creek storage tunnels in 2015 and 2016 in order to maintain the Consent decree schedule for these facilities. This is not enough time to design and install sizable demonstration projects and obtain the data necessary to support a large scale green infrastructure implementation effort. For meaningful demonstration projects monitoring needs to take place for a significant period of time before and after construction to provide the data to determine how effective a green infrastructure program would be. The program implementation team has estimated that to test the concept through demonstration projects current consent decree milestones for these watersheds would need to be extended by approximately eight years. The primary reason for this is the time required for meaningful pre and post construction monitoring. DC Water is currently in negotiations with EPA to complete this Consent Decree modification. Another goal of the demonstration projects is to tackle institutional obstacles. A successful green infrastructure implementation has a private and public land component. The concept of private incentives would need to be resolved and virtually none of the public land is under the control of DC Water. So agreements with public agencies and institutions would be a major component of this initiative.

DC water has already moved ahead on several fronts. The most important is the progression of negotiations with the EPA and the Department of Justice on the Consent Decree extension. So far DC Water has received an encouraging response from the EPA on what is known as an adaptive management approach. This means additional time given on the Consent Decree to test out the concept through demonstration projects with the option to revert to traditional “grey” infrastructure if the green concept were to prove infeasible and still achieve the revised consent decree deadlines.

Meanwhile DC Water is moving ahead on several tasks as follows:

- Started the process of reaching out to stakeholders and the public for support.
- Completed several technical memos to address all the issues associated with a green infrastructure initiative including public outreach, approach to modeling, experience (lessons learned) of other initiatives, water quality implications and approach to demonstration projects.
- Identified candidate sites for demonstration projects.
- Started concept designs for demonstration projects.
- Started outreach to partner with local Universities.

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- Developed a preliminary concept for a Green Infrastructure Design challenge competition.
- Entered into a partnering agreement with the District, and EPA to affirm their mutual commitment to making the Green Initiative a reality.

The DC Clean Rivers Projects are on schedule to meet the current Consent Decree deadlines. Below is a more detailed status of the current projects.

### CURRENT PROJECT STATUS <sup>(1)</sup>

<b>Project</b>	<b>CIP Budget (\$m)</b>	<b>CIP Cost to Date (\$m) <sup>(2)</sup></b>	<b>Scheduled Completion</b>	<b>Status</b>
Blue Plains Tunnel (BPT)	396.7	155.3	Nov. 2015	Construction
Tingey St. Diversions	19.5	2.0	Jan. 2014	Construction
CSO 19 Overflow & Diversion	38.8	19.0	Aug. 2013	Construction
Bolling Overflow & Diversions	26.4	1.8	Jan. 2018	Planning
CSO 15 to 17 Structures/Diversions	41.0	11.5	July 2014	Construction
CSO 07 structures & Diversions	11.1	5.1	Feb. 2013	Construction
Anacostia River Tunnel	326.7	4.0	Nov. 2017	Procurement
MPS Diversions	46.7	1.2	Feb. 2017	Design
Northeast Boundary Tunnel	463.1	0	June 2021	Planning
LID Projects	4.4	0.2	Dec. 2013	Construction
First Street Tunnel	143.9	0	Sept. 2015	Planning
GI Demonstration	40.0	0	Dec. 2017	Planning
BPT Site prep	11.2	9.9	Jan. 2012	Completed
Poplar point PS Replacement	31.0	0.6	Sept. 2016	Design
Potomac Tunnel	383.7	0	Mar. 2025	Planning
Rock Creek tunnel	65.3	0	Mar. 2025	Planning

(1) Does not include all projects. Small projects omitted.

(2) Cost to date as of February 1, 2013