USING DOEE'S STORMWATER DATABASE TO: Strategically implement green infrastructure programs that protect District rivers; report on environmental outcomes; and provide more effective customer service.

Oil, grease, fertilizers, and other pollutants drain, often without treatment, into the District's waterbodies.

Stormwater carries trash into the District's waterbodies.

High volumes of stormwater runoff erode stream channels, like this tributary to the Anacostia River.





DOEE's stormwater management programs help to install green infrastructure to reduce stormwater runoff and restore the District's waterbodies.

The Municipal Separate Storm Sewer System (MS4) drains to District waterbodies, often without treatment. These areas are more environmentally vulnerable and are the primary focus of DOEE's green infrastructure programs.



COORDINATION AND INTEGRATION OF REGULATORY AND INCENTIVE-BASED STORMWATER PROGRAMS

- Siloed programs that rely on the same data now exchange information.
- For each green infrastructure practice, DOEE tracks design, approval, inspection, and receipt of financial incentives – Prior to the Stormwater Database, these were all tracked separately.
- DOEE continues to integrate more stormwater programs into the Stormwater Database.



IMPLEMENTATION OF THE STORMWATER RETENTION CREDIT (SRC) TRADING PROGRAM

- Large construction projects must install green infrastructure to reduce stormwater runoff. Projects may meet a portion of their requirement by purchasing SRCs from voluntary green infrastructure practices.
- Database calculations determine the SRC demand for regulated projects and the potential SRC supply for voluntary projects.
- The publicly-available SRC registry posts sale prices and allows SRC owners to advertise their SRCs for sale. The registry reduces transaction barriers and provides program transparency.

Transfer Date	Watershed where SRCs are generated	Sewershed where SRCs are generated	Purchase price per SRC	Number of SRCs (tot)	Total value of transfer (tot)
10-13-2016	Potomac	MS4	\$1.90	11,013	\$20,925
09-26-2016	Rock Creek	CSS	\$1.70	4,648	\$7,902
09-08-2016	Rock Creek	CSS	\$2.00	2,142	\$4,284
08-10-2016	Rock Creek	CSS	\$1.80	108	\$194
08-08-2016	Potomac	MS4	\$1.90	2,115	\$4,019
08-03-2016	Rock Creek	CSS	\$1.80	3,105	\$5,589
07-08-2016	Rock Creek	CSS	\$1.90	584	\$1,110
07-08-2016	Rock Creek	CSS	\$1.80	1,257	\$2,263
10-02-2015	Potomac	MS4	\$1.90	11,013	\$20,925
09-18-2014	Potomac	MS4	\$2.27	11,013	\$25,000
Totals (10 grou	ps)			46,998	\$92,209

The SRC Registry lists each SRC trade. Program participants can also access contact information for SRC sellers.

IMPROVED CUSTOMER SERVICE AND EFFICIENCY

- Program applicants can now participate more easily in many programs by reducing duplicative procedures and forms.
- During permitting, applicants can track review status and access DOEE's review comments.
- Process improvements through the database help to expedite reviews and approvals. Built-in calculations determine compliance with the District's regulations.

EVALUATION

- the greatest environmental benefit.

Approximately 80% of SRC use to date has represented green infrastructure installed in the District's MS4 area and used for regulatory compliance in the CSS. This shifts private investment in green infrastructure to high priority locations where it has the greatest benefit.

	SRCs	Used Com	
324	Certification		
38,3	Use		
70	Certification	3/7	
6 ⁰	Use		
43	Certification		
4,9	Use		
4	Certification		
58	Use		
	1/1/2013		

REPORTING TO EPA, ENVIRONMENTAL STAKEHOLDERS, AND DECISION-MAKERS

- from the Stormwater Database.
- DOEE publishes a GIS layer that the area managed.
- program turnaround time and statistics.



STRATEGIC PLANNING AND PROGRAM

 Detailed green infrastructure data feed into TMLD modeling to help DOEE determine how its programs are improving water quality across the District.

• Custom dashboards show real-time program turnaround times and statistics.

• By analyzing long-term trends, DOEE can adaptively manage its programs to achieve





DOEE uses the Stormwater Database to analyze the time period for which an SRC is certified and the time period for which it is used to meet a regulatory requirement.

*** * *** DEPARTMENT
OF **ENERGY &**

ENVIRONMENT

MS4 Permit and Chesapeake Bay TMDL reports rely on program data

contains the location and size of green infrastructure practices and

Custom dashboards show real-time



This map shows the location of green infrastructure practices that have been approved for DOEE's programs.