

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

THIRD QUARTER, 2012

Prepared By:

D.C. Water and Sewer Authority
Department of Sewer Services
Sewer Pumping Division
2nd & N Streets, SE
Washington, D.C. 20003



**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY**
Serving the Public • Protecting the Environment

**Monthly Operations Report
For
Combined Sewer System
Month: July 2012**

Prepared By:
District of Columbia
Water and Sewer Authority
Department of Sewer Services
Washington, D.C. 20003

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Washington, D.C.

Monthly Operations Report for Combined Sewer System
Month: July 2012

Table of Contents

- 1. INTRODUCTION**
- 2. OPERATION AND MAINTENANCE**
 - 2.1 Regulators
 - 2.2 Outfalls, Tide Gates and CSO Signs
 - 2.3 Pumping Stations
 - 2.4 Northeast Boundary Swirl Facility
 - 2.5 Inflatable Dams
- 3. DRY WEATHER OVERFLOWS**
- 4. SOLIDS AND FLOATABLES CONTROL**
 - 4.1 Catch Basin Cleaning
 - 4.2 BMP Demonstration Projects
 - 4.3 Skimmer Boat Programs
 - 4.4 CSS Litter Control
- 5. MONITORING**
 - 5.1 Bar Racks at Main & O Street
 - 5.2 Rainfall Data

1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve parts of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the operations of the combined sewer system for the month indicated.

2. OPERATION AND MAINTENANCE

2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/09/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/09/12	*			
5	Poplar Point Pumping Station	004	07/27/12	*			
6	Chicago Street and Railroad Ave, SE	005	07/27/12	*			
7	W Street and Railroad Ave, SE	005	07/25/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ³				
9	13 th Street and Ridge Place, SE	007	07/09/12	*			
11	"O" Street Pumping Station	011(a)	07/26/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	07/26/12	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	07/26/12	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	07/19/12	*			
15	South Capitol and E Streets	010	07/19/12	*			
15a	Half and L Streets, SE	010	07/19/12	*			
15b	South Capitol and I Streets	010	07/16/12	*			
15c	South Capitol and I Streets	010	07/19/12	*			
16	North of Main Sewage Pumping Station	012	07/02/12	*			
17	4 th and N Streets, SE, Both Extended	013	07/16/12	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	07/02/12	*			
18	6 th and M Streets, SE	014	07/02/12	*			
19	9 th and M Streets, SE	015	07/02/12	*			
19a	9 th and M Streets, SE	015	07/02/12	*			
20	12 th and M Streets, SE	016	07/02/12	*			
20a	12 th and M Streets, SE	016	07/28/12	*			
21	14 th and M Streets, SE	017	07/24/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	07/24/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	07/24/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	07/24/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	07/24/12	*			

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
22e	14 th Street and Kentucky Ave, SE	018	07/24/12	*			
23	Independence Ave, 21 st Street, SE, Extended	019	07/24/12	*			
24a	East Capitol St, west of RFK stadium	019	07/24/12	*			
28	21 st and Constitution Ave, NW	020	07/16/12	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	07/16/12	*			
30	17 th and D Streets, NW	020	07/09/12	*			
31	15 th Street and Pennsylvania Ave, NW	020	07/09/12	*			
33	10 th and F Streets, NW	020	07/09/12	*			
34	23 rd Street, north of Constitution Ave, NW	020	07/19/12	*			
34a	23 rd Street near C Street, NW	020	07/16/12	*			
35	Northeast of Roosevelt Bridge, NW	021	07/19/12	*			
36	27 th and I Streets, NW	022	07/09/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	07/09/12	*			
36b	19 th and L Streets, NW	022, 034	07/05/12	*			
36d	17 th and L Streets, NW	022, 034	07/05/12	*			
36g	18 th and M Streets, NW	022, 034	07/05/12	*			
36h	18 th and M Streets, NW	022, 034	07/05/12	*			
37	27 th and Eye Streets, NW	022	07/09/12	*			
38	29 th and K Streets, NW	024	07/09/12	*			
38a	30 th Street, south of K Street, NW	024	07/09/12	*			
39a	30 th and K Streets, NW	024	07/09/12	*			
39b	30 th and K Streets, NW	024	07/09/12	*			
41b	31 st and K Streets, NW	025	07/09/12	*			
41c	31 st and K Streets, NW	025	07/09/12	*			
42	Wisconsin Ave and K Street, NW	026	07/16/12	*			
43	Potomac and Water Streets, NW	027	07/16/12	*			
43a	Potomac and Water Streets, NW	027	07/16/12	*			
44	Water Street, west of Potomac St, NW	027	07/16/12	*			
45	36 th and M Streets, NW	028	07/02/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	07/02/12	*			
47	38 th Street and Reservoir Road, NW	029	07/02/12	*			

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
47a	37 th and T Streets, NW	029	07/02/12	*			
47b	37 th and T Streets, NW	029	07/02/12	*			
47c	38 th and W Streets, NW	029	07/02/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ³				
50	26 and M Streets, NW	032	07/23/12	*			
51	N Street Extended, west of 25 th Street, NW	033	07/23/12	*			
52	22 nd Street between M and N Streets, NW	034	07/19/12	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	07/19/12	*			
53	22 nd and M Streets, NW	022, 034	07/23/12	*			
53a	22 nd and M Streets, NW	022, 034	07/13/12	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	07/13/12	*			
53c	L and 22 nd Streets, NW	022	07/13/12	*			
54	23 rd and O Streets, NW	034	07/13/12	*			
55	22 nd Street, south of Q Street, NW	035	07/13/12	*			
55a	22 nd Street, south of Q Street, NW	035	07/13/12	*			
56	23 rd and Massachusetts Ave, NW	036	07/13/12	*			
57	23 rd Street, south of Q Street, NW	036	07/13/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ³				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	07/09/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	07/03/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	07/03/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	07/11/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	07/11/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	07/11/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	07/11/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	07/11/12	*			
66	Adams Mill Road and Lamont Street, NW	045	07/11/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	07/11/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	07/11/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	07/11/12	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	07/09/12	*			
70i	5 th and Quackenbos Streets, NW	049	07/17/12	*			

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
71	28 th Street, west of Rock Creek Parkway, NW	050	07/17/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	07/13/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	07/13/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	07/12/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A ³				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	07/27/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	07/27/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	07/12/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	07/26/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ³				
84	26 th and P Streets, NW	060	07/13/12	*			
84a	26 th and P Streets, NW	060	07/13/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Table 2 - Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	07/25/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	07/25/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge ¹	07/25/12									
007	Between 11 th St. and Anacostia Bridges, SE	07/25/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	07/12/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	07/12/12	*			*			*		
011	Main Sewage Pumping Station, SE	07/12/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	07/12/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	07/12/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	07/12/12	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	07/12/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	07/12/12	*			*			*		
016	12th and O Streets, SE	07/26/12	*		*		*		*		
017	M and Water Street, SE	07/26/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	07/26/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	07/26/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	07/05/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	07/05/12	*			*			*		
022	Rock Creek Parkway and G St., NW	07/05/12	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	07/05/12	*		*		*		*		
025	South of 31st and K Streets, NW	07/05/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	07/05/12	*		*		*		*		
027	33 rd and Water Sts., NW	07/05/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	07/05/12	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
029	Adjacent to C&O Canal, aligned with 38 th St. NW	07/05/12	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW ¹	N/A									
032	26th and M Street, NW.	07/25/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	07/25/12	*		*			*	*		
034	Just west of St. Francis Jr. High and north of N St., NW	07/13/12	*		*			*	*		
035	P St. Bridge and Rock Creek Parkway	07/13/12	*		*			*	*		
036	22nd Street, South of Q Street NW.	07/26/12	*		*			*	*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A			*			*			
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	07/09/12	*		*			*	*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	07/03/12	*		*			*	*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	07/03/12	*		*			*	*		
041	Beach Dr. and Ontario Pl., NW	07/12/12	*		*			*	*		
042	Harvard St. and Beach Dr NW.	07/12/12	*		*			*	*		
043	Upstream of Harvard St. and Beach Dr NW.	07/12/12	*		*			*	*		
044	Kenyon Street and Beach Dr., NW.	07/12/12	*		*			*	*		
045	North of Beach Dr. and Walbridge Pl, NW.	07/12/12	*		*			*	*		
046	Piney Branch Parkway and Park Road, NW.	07/11/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	07/11/12	*		*			*	*		
048	South of Piney Branch Parkway and 17 th St.	07/11/12	*		*			*	*		
049	North of Piney Branch Parkway and 17 th St.	07/11/12	*		*			*	*		
050	Rock Creek Parkway and L St., NW	07/17/12	*		*			*	*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	07/26/12	*		*			*	*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	07/26/12	*		*			*	*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	07/26/12									
054	Massachusetts Ave & Rock Creek Parkway, NW.	07/26/12	*		*			*	*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
056	Normanstone Dr. and Rock Creek Parkway, NW.	07/26/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	07/26/12	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	07/26/12				*					
060	North of P St. Bridge & Rock Creek Pkwy, NW	07/26/12	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

**Table 2-3
Pumping Stations – Inspections and Equipment in Service**

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
Main	31	4	10	#3 Sanitary Pump	July 1-31	Pump being rehabbed	December 2012
Eastside	31	2	4	#2 Screen	July 28-31	Screen being rehabbed	December 2012
Poplar Point	31	2	3	#1 Screen	July 1-31	Screen being rehabbed	December 2012
Potomac	31	4	5	#2 Sanitary Pump #4 Screen	July 23-31 July 1-31	Pump being rehabbed Screen being rehabbed	September 2012 December 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Table 2-4
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	7/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Table 2-5
Pumping Stations – Pumpage**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)¹</i>
Main	1,574.80	50.80	N/A	N/A	N/A
O St	171.00	5.52	7/25/2012	196.60	Normal
Eastside	283.25	9.14	N/A	N/A	N/A
Poplar Point	670.59	21.63	N/A	N/A	N/A
Potomac	3,527.60	113.79	N/A	N/A	N/A
Rock Creek	193.33	6.24	N/A	N/A	N/A
Upper Anacostia	152.08	4.91	N/A	N/A	N/A
Earle Place	0.16	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

2-4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service

<i>Date Inspected</i>	<i># of Screens</i>	<i># of Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
7/26/12	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
7/27/12	Group A	

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

<i>Date</i>	<i>Approx. Storm Duration (hrs)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
7/9/2012	5	6.45	6.450	0.000	220
7/10/2012	4	13.88	13.880	0.000	40
7/11/2012	4	1.92	1.920	0.000	20
7/18/2012	7	22.86	22.860	0.000	100
7/19/2012	1.5	11.63	11.630	0.000	40
7/20/2012	6.5	6.09	1.477	4.613	40
7/21/2012	4	5.76	5.760	0.000	40
7/31/2012	5	23.23	23.230	0.000	91.2

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

<i>Date</i>	<i>Chlor/ Dechlor System Used?</i>	<i>Dosages</i>		<i>Residual Chlorine Test Results</i>		<i>E. Coli Test Results</i>	
		<i>NaOCl (mg/l)</i>	<i>NaHSO₃ (mg/l)</i>	<i>Location</i>	<i>Conc. (mg/l)</i>	<i>Site</i>	<i>Count Per 100ml</i>
7/20	Yes	5	2	Mix Chamber	0.2	Mix Chamber	<10
				Anacostia River ¹	0.0	Anacostia River ¹	<10

Notes:

1. River: River Outfall

Table 2-10
Northeast Boundary Swirl Facility – Effluent Sampling Results

<i>Date</i>	<i>Flow Composited Sample Results</i>						
	<i>Total suspended solids (mg/L)</i>	<i>Nitrite (NO₂-N) mg/L</i>	<i>Nitrate (NO₃-N) mg/L</i>	<i>Total Kjeldahl Nitrogen (mg/L as N)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorus (mg/L)</i>	<i>Carbonaceous Biological Oxygen Demand (mg/L)</i>
7/20/12	70.0	0.00	0.90	2.29	3.19	0.63	6.0

2.5 Inflatable Dams

WASA operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-10. The inflatable dams consist of multi-ply elastomeric (i.e., “rubber”) fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

**Table 2-11
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	7/20/2012	No	N/A	N/A	N/A
14 - West	7/20/2012	No	N/A	N/A	N/A
15	7/20/2012	No	N/A	N/A	N/A
15A	7/20/2012	No	N/A	N/A	N/A
16 - East	7/20/2012	No	N/A	N/A	N/A
16 - West	7/20/2012	No	N/A	N/A	N/A
24 - North	7/20/2012	No	N/A	N/A	N/A
24 - Middle	7/20/2012	No	N/A	N/A	N/A
24 - South	7/20/2012	No	N/A	N/A	N/A
34	7/20/2012	No	N/A	N/A	N/A
35	7/20/2012	No	N/A	N/A	N/A
52	7/20/2012	No	N/A	N/A	N/A

**Table 2-12
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
14 (E & W)	None	N/A
15	7/9 7/10 7/19 7/20 7/31	2 mins 1 hr, 18 mins 92 secs 2 mins 3 mins
15A	7/9 7/10 7/11 7/18 7/19 7/20 7/31	2 hrs, 11 mins 35 mins 2 mins 2 mins 18 mins 1 hr, 54 mins 31 mins
16 (E & W)	7/9 7/10 7/18 7/19 7/20	75 secs 52 mins 91 secs 24 mins 100 secs
24	7/11 7/18 7/19 7/20 7/21 7/24 7/31	98 secs 15 mins 12 mins 6 mins 2 mins 11 mins 3 mins
34	7/10 7/18 7/19	15 mins 17 mins 15 mins
35	7/9 7/10 7/18 7/19 7/21 7/31	19 secs 12 mins 32 mins 31 mins 4 mins 15 mins
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.

Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during July 2012.

3.1 Sanitary Sewer Overflows

Location	Wheeler Road and Varney Street NE.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority was dispatched to investigate a service call regarding a sewer odor at Wheeler Rd and Varney St, SE. The crew found that sewage was seeping through the pick holes of a manhole cover in the roadway in front of 900 Varney Street, SE. There was a buildup of grease in a 10 inch sanitary sewer causing the problem. The flow through the pick holes entered a nearby 27 inch storm sewer.
Date/ Time Discovered	July 27, 2012 at 11:00 am
Action Taken	The DC Water crew removed the grease blockage from the 10 inch sanitary sewer at approximately 1:00 pm.
Date/Time Discharge Ceased	July 27, 2012 at 1:00 pm
Estimated Volume	600 gallons
Did Overflow Reach Receiving water?	Yes. Oxon Run Creek.
Action taken to prevent reoccurrence	On July 30, 2012, DC Water crews used the close circuit television camera (CCTV) to assess the condition of the 10 inch sewer. The pipe is structurally sound, but the crew removed a wooden plank across the pipe channel that contributed to the grease build up in the line.

SOLIDS AND FLOATABLES CONTROL

3.2 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

Table 4-1 Catch Basin Summaries

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	230	1871	1684	357	352	2228	2036
2	4,714	4,112	2,316	1234	51	1637	1421	885	771	2522	2192
3	3,555	461	-	0	0	3944	674	1143	55	5087	729
4	2,782	1,985	159	159	159	4250	3044	181	80	4431	3124
5	2,167	1,035	1,035	1035	596	2416	1378	436	253	2852	1631
6	1,783	1,594	1,594	1047	84	1109	1004	48	43	1157	1047
7	2,313	-	-	0	0	601	0	73	0	674	0
8	1,278	116	116	116	31	1533	147	22	0	1555	147
WASA Subtotal	20,183	10,871	5,954	4,325	1,151	17,361	9,352	3,145	1,554	20,506	10,906
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871								20,506	10,906
% Cleaned/Inspected to Date				73%	19%					>100%	>100%

3.3 BMP Demonstration Projects

WASA operates the following demonstration projects designed to remove solids and floatables from CSO prior to discharge.

- Netting system at CSO 018 to Anacostia River
- Bar Rack at CSO 040 and 041 to Rock Creek

**Table 4-2
BMP Demonstration Projects – Report**

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (CY)</i>
Netting System CSO 018	7/3/2012	Netting platform has dropped under the water level.	Boom and flotation replacement	None. Seeking bids to perform repair work.	None collected
Bar Rack CSO 040	7/3/2012	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	7/12/2012	Good	None	Routine Cleaning	(1)

Notes:

(1) System is designed such that captured solids and floatable are conveyed to Blue Plains for treatment.

3.4 Anacostia River Floating Debris Removal Program

This program was initiated in September 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of WASA, Department of Sewer Services. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

**Table 4-3
Anacostia River Floating Debris Removal Program – Summary**

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	21
<i>Days not Operating</i>	13
<i>Reason not Operating</i>	PM service and repairs.
<i># Skimmer in Fleet</i>	2 skimmers
<i># Skimmers Out of Service</i>	2
<i>Dates</i>	B28: 7/3, 7/9, 7/16-17, 7/19 through 7/31 B29: 7/1 through 7/31
<i>Reason</i>	B28: Broken loading screen chain, damaged loading screen, hydraulic oil leak port prop ram, broken starboard prop pod. B29: Damaged front loading screen roller.
<i>Plan to Restore to Service</i>	B28: ETR unknown. B29: ETR 15 August 2012.
<i>Volume Material Collected</i>	40 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

3.5 CSS Litter Control

This section describes WASA's efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

Status: no activities this month.

4. MONITORING

4.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

**Table 5.1
Bar Racks at Main & O Street Pumping Stations**

Inspector: Claude Price

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	7/11/12	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	7/11/12	X			

5.2 Rain Data

Rain data from National Airport and from the rain gauges installed in the CSS are summarized below.

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
7/1/2012	0	0	0	0
7/2/2012	0	0	0	0
7/3/2012	0	0.04	0.01	0
7/4/2012	0.01	0	0	0
7/5/2012	0	0	0	0
7/6/2012	0	0	0	0
7/7/2012	0	0	0	0
7/8/2012	0	0	0.45	0.05
7/9/2012	0.01	0.27	0.24	0.37
7/10/2012	0.01	2.04	0.67	2.19
7/11/2012	0	0	0.06	0
7/12/2012	0	0	0	0
7/13/2012	0	0	0	0
7/14/2012	0.03	0.1	0.08	0.06
7/15/2012	0.01	0.05	0.03	0.04
7/16/2012	2.21	0	0.01	0
7/17/2012	0	0	0	0
7/18/2012	0.01	1.51	0	0.46
7/19/2012	0.1	1.23	0.55	1.01
7/20/2012	0.05	0.03	0.06	0.18
7/21/2012	0.4	0.53	0.03	0.16
7/22/2012	0	0	0.06	0
7/23/2012	0	0	0.01	0
7/24/2012	0	0.17	0	0
7/25/2012	0	0.11	0	0
7/26/2012	0	0	0	0
7/27/2012	0	0	0	0
7/28/2012	0	0	0.14	0
7/29/2012	0.01	0	0	0
7/30/2012	0	0	0	0
7/31/2012	0.15	0.02	0.03	0.04
TOTAL	3	6.1	2.43	4.56



**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY**
Serving the Public • Protecting the Environment

**Monthly Operations Report
For
Combined Sewer System
Month: August 2012**

Prepared By:
District of Columbia
Water and Sewer Authority
Department of Sewer Services
Washington, D.C. 20003

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Washington, D.C.

Monthly Operations Report for Combined Sewer System
Month: August 2012

Table of Contents

- 1. INTRODUCTION**
- 2. OPERATION AND MAINTENANCE**
 - 2.1 Regulators
 - 2.2 Outfalls, Tide Gates and CSO Signs
 - 2.3 Pumping Stations
 - 2.4 Northeast Boundary Swirl Facility
 - 2.5 Inflatable Dams
- 3. DRY WEATHER OVERFLOWS**
- 4. SOLIDS AND FLOATABLES CONTROL**
 - 4.1 Catch Basin Cleaning
 - 4.2 BMP Demonstration Projects
 - 4.3 Skimmer Boat Programs
 - 4.4 CSS Litter Control
- 5. MONITORING**
 - 5.1 Bar Racks at Main & O Street
 - 5.2 Rainfall Data

1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve parts of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the operations of the combined sewer system for the month indicated.

2. OPERATION AND MAINTENANCE

2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	08/30/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	08/30/12	*			
5	Poplar Point Pumping Station	004	08/28/12	*			
6	Chicago Street and Railroad Ave, SE	005	08/28/12	*			
7	W Street and Railroad Ave, SE	005	08/29/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ³				
9	13 th Street and Ridge Place, SE	007	08/28/12	*			
11	"O" Street Pumping Station	011(a)	08/23/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	08/17/12	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	08/17/12	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	08/17/12	*			
15	South Capitol and E Streets	010	08/23/12	*			
15a	Half and L Streets, SE	010	08/23/12	*			
15b	South Capitol and I Streets	010	08/23/12	*			
15c	South Capitol and I Streets	010	08/23/12	*			
16	North of Main Sewage Pumping Station	012	08/23/12	*			
17	4 th and N Streets, SE, Both Extended	013	08/22/12	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	08/06/12	*			
18	6 th and M Streets, SE	014	08/17/12	*			
19	9 th and M Streets, SE	015	08/17/12	*			
19a	9 th and M Streets, SE	015	08/07/12	*			
20	12 th and M Streets, SE	016	08/07/12	*			
20a	12 th and M Streets, SE	016	08/17/12	*			
21	14 th and M Streets, SE	017	08/17/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	08/20/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	08/20/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	08/20/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	08/20/12	*			

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
22e	14 th Street and Kentucky Ave, SE	018	08/20/12	*			
23	Independence Ave, 21 st Street, SE, Extended	019	08/22/12	*			
24a	East Capitol St, west of RFK stadium	019	08/24/12	*			
28	21 st and Constitution Ave, NW	020	08/29/12	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	08/30/12	*			
30	17 th and D Streets, NW	020	08/13/12	*			
31	15 th Street and Pennsylvania Ave, NW	020	08/13/12	*			
33	10 th and F Streets, NW	020	08/13/12	*			
34	23 rd Street, north of Constitution Ave, NW	020	08/30/12	*			
34a	23 rd Street near C Street, NW	020	08/30/12	*			
35	Northeast of Roosevelt Bridge, NW	021	08/15/12	*			
36	27 th and I Streets, NW	022	08/15/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	08/15/12	*			
36b	19 th and L Streets, NW	022, 034	08/15/12	*			
36d	17 th and L Streets, NW	022, 034	08/15/12	*			
36g	18 th and M Streets, NW	022, 034	08/15/12	*			
36h	18 th and M Streets, NW	022, 034	08/15/12	*			
37	27 th and Eye Streets, NW	022	08/15/12	*			
38	29 th and K Streets, NW	024	08/13/12	*			
38a	30 th Street, south of K Street, NW	024	08/13/12	*			
39a	30 th and K Streets, NW	024	08/13/12	*			
39b	30 th and K Streets, NW	024	08/13/12	*			
41b	31 st and K Streets, NW	025	08/13/12	*			
41c	31 st and K Streets, NW	025	08/13/12	*			
42	Wisconsin Ave and K Street, NW	026	08/01/12	*			
43	Potomac and Water Streets, NW	027	08/31/12	*			
43a	Potomac and Water Streets, NW	027	08/31/12	*			
44	Water Street, west of Potomac St, NW	027	08/01/12	*			
45	36 th and M Streets, NW	028	08/01/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	08/10/12	*			
47	38 th Street and Reservoir Road, NW	029	08/01/12	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47a	37 th and T Streets, NW	029	08/17/12	*			
47b	37 th and T Streets, NW	029	08/17/12	*			
47c	38 th and W Streets, NW	029	08/17/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ³				
50	26 and M Streets, NW	032	08/28/12	*			
51	N Street Extended, west of 25 th Street, NW	033	08/28/12	*			
52	22 nd Street between M and N Streets, NW	034	08/30/12	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	08/30/12	*			
53	22 nd and M Streets, NW	022, 034	08/17/12	*			
53a	22 nd and M Streets, NW	022, 034	08/17/12	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	08/28/12	*			
53c	L and 22 nd Streets, NW	022	08/28/12	*			
54	23 rd and O Streets, NW	034	08/20/12	*			
55	22 nd Street, south of Q Street, NW	035	08/20/12	*			
55a	22 nd Street, south of Q Street, NW	035	08/20/12	*			
56	23 rd and Massachusetts Ave, NW	036	08/20/12	*			
57	23 rd Street, south of Q Street, NW	036	08/20/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ³				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	08/08/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	08/08/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	08/08/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	08/08/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	08/08/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	08/08/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	08/08/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	08/08/12	*			
66	Adams Mill Road and Lamont Street, NW	045	08/08/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	08/08/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	08/08/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	08/08/12	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	08/08/12	*			

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
70i	5 th and Quackenbos Streets, NW	049	08/13/12	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	08/13/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	08/20/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	08/20/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	08/20/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A ³				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	08/17/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	08/17/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	08/17/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	08/17/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ³				
84	26 th and P Streets, NW	060	08/31/12	*			
84a	26 th and P Streets, NW	060	08/31/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Table 2 - Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	08/01/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	08/01/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge ¹	08/07/12									
007	Between 11 th St. and Anacostia Bridges, SE		*		*		*		*		
009	O St. Sewage Pumping Station, SE	08/22/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	08/22/12	*			*			*		
011	Main Sewage Pumping Station, SE	08/22/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	08/22/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	08/31/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	08/10/12	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	08/10/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	08/10/12	*			*			*		
016	12th and O Streets, SE	08/23/12	*		*		*		*		
017	M and Water Street, SE	08/23/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	08/23/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	08/14/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	08/22/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	08/22/12	*			*			*		
022	Rock Creek Parkway and G St., NW	08/22/12	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	08/10/12	*		*		*		*		
025	South of 31st and K Streets, NW	08/10/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	08/10/12	*		*		*		*		
027	33 rd and Water Sts., NW	08/10/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	08/10/12	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
029	Adjacent to C&O Canal, aligned with 38 th St. NW	08/07/12	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW ¹	N/A									
032	26th and M Street, NW.	08/23/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	08/23/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	08/20/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	08/20/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	08/01/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	08/31/12	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	08/31/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	08/31/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	08/10/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	08/10/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	08/10/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	08/10/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	08/10/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	08/10/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	08/10/12	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	08/10/12	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	08/10/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	08/10/12	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	08/10/12	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	08/22/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	08/14/12									
054	Massachusetts Ave & Rock Creek Parkway, NW.	08/14/12	*		*		*		*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
056	Normanstone Dr. and Rock Creek Parkway, NW.	08/14/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	08/14/12	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	08/10/12				*					
060	North of P St. Bridge & Rock Creek Pkwy, NW	08/10/12	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

**Table 2-3
Pumping Stations – Inspections and Equipment in Service**

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
Main	31	4	10	#3 Sanitary Pump	August 1-31	Pump being rehabbed	December 2012
Eastside	31	2	4	#2 Screen	August 1-31	Screen being rehabbed	December 2012
Poplar Point	31	2	3	#1 Screen	August 1-31	Screen being rehabbed	December 2012
Potomac	31	4	5	#2 Pump #4 Screen	August 1-31 August 1-31	Pump being rehabbed Screen being rehabbed	September 2012 December 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Table 2-4
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	8/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Table 2-5
Pumping Stations – Pumpage**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)¹</i>
Main	1,531.80	49.41	N/A	N/A	N/A
O St	177.00	5.71	8/10/2012	20.20	Normal
Eastside	294.45	9.50	N/A	N/A	N/A
Poplar Point	662.67	21.38	N/A	N/A	N/A
Potomac	3,452.30	111.36	N/A	N/A	N/A
Rock Creek	194.17	6.26	N/A	N/A	N/A
Upper Anacostia	151.04	4.87	N/A	N/A	N/A
Earle Place	0.19	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

2-4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service

<i>Date Inspected</i>	<i># of Screens</i>	<i># of Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
8/26/12	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
8/27/12	Group A	

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

<i>Date</i>	<i>Approx. Storm Duration (hrs)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
8/10/2012	6.25	12.46	12.46	0.00	180.0
8/11/2012	5.5	14.02	14.02	0.00	60.0
8/19/2012	2.25	6.81	6.81	0.00	60.0
8/20/2012	4	2.32	2.32	0.00	60.0
8/22/2012	4	2.12	2.12	0.00	60.0
8/26/2012	4	2.88	2.88	0.00	60.0

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

<i>Date</i>	<i>Chlor/ Dechlor System Used?</i>	<i>Dosages</i>		<i>Residual Chlorine Test Results</i>		<i>E. Coli Test Results</i>	
		<i>NaOCl (mg/l)</i>	<i>NaHSO₃ (mg/l)</i>	<i>Location</i>	<i>Conc. (mg/l)</i>	<i>Site</i>	<i>Count Per 100ml</i>
N/A				Mix Chamber		Mix Chamber	
				Anacostia River ¹		Anacostia River ¹	

Notes:

1. River: River Outfall

Table 2-10
Northeast Boundary Swirl Facility – Effluent Sampling Results

<i>Date</i>	<i>Flow Composited Sample Results</i>						
	<i>Total suspended solids (mg/L)</i>	<i>Nitrite (NO₂-N) mg/L</i>	<i>Nitrate (NO₃-N) mg/L</i>	<i>Total Kjeldahl Nitrogen (mg/L as N)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorus (mg/L)</i>	<i>Carbonaceous Biological Oxygen Demand (mg/L)</i>
N/A							

2.5 Inflatable Dams

WASA operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-10. The inflatable dams consist of multi-ply elastomeric (i.e., “rubber”) fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

**Table 2-11
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	8/20/2012	No	N/A	N/A	N/A
14 - West	8/20/2012	No	N/A	N/A	N/A
15	8/20/2012	No	N/A	N/A	N/A
15A	8/20/2012	No	N/A	N/A	N/A
16 - East	8/20/2012	No	N/A	N/A	N/A
16 - West	8/20/2012	No	N/A	N/A	N/A
24 - North	8/20/2012	No	N/A	N/A	N/A
24 - Middle	8/20/2012	No	N/A	N/A	N/A
24 - South	8/20/2012	No	N/A	N/A	N/A
34	8/20/2012	No	N/A	N/A	N/A
35	8/20/2012	No	N/A	N/A	N/A
52	8/20/2012	No	N/A	N/A	N/A

**Table 2-12
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
14 (E & W)	None	N/A
15	8/10	3 mins
15A	8/10	5 mins
16 (E & W)	8/10	27 mins
24	8/10	4 mins
	8/11	3 mins
	8/19	2 mins
	8/20	2 mins
	8/22	14 mins
34	8/11	3 mins
35	8/10	1 mins
	8/11	1 min
	8/19	15 mins
	8/20	2 mins
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

There was one dry weather combined sewer overflow event during August 2012.

Location	27th Street and I Street NW.
Cause	During their monthly scheduled structure inspection, a sewer maintenance crew observed sewage overflowing at diversion structure #036 at 27 th St. and I St. NW. Upon further investigation, the crew found a long wooden plank wedged across the 2.5ft x 3ft opening in the 4.5ft combined sewer causing a building of sticks and other debris that obstructed the flow through the diversion structure causing a back up and overflow into the Rock Creek Diversion Sewer that flow into the Potomac River at the outfall (CSO #022).
Date/ Time Discovered	August 15, 2012 at 10:10 am
Action Taken	The DC Water crew removed the log and cleared the 4.5ft sewer at approximately 11:15 am.
Date/Time Discharge Ceased	August 15, 2012 at 11:15 am
Estimated Volume	3300 gallons
Did Overflow Reach Receiving water?	Yes. Potomac River.
Action taken to prevent reoccurrence	On August 16, 2012, diversion structure #036 was re-inspected and was found to be in working condition.

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

Table 4-1 Catch Basin Summaries

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	381	2228	2036	228	151	2456	2187
2	4,714	4,112	2,316	2002	162	2522	2192	1562	1362	4084	3554
3	3,555	461	-	0	0	5087	729	278	8	5365	737
4	2,782	1,985	159	159	159	4431	3124	128	24	4559	3148
5	2,167	1,035	1,035	1035	838	2852	1631	319	242	3171	1873
6	1,783	1,594	1,594	1157	216	1157	1047	187	110	1344	1157
7	2,313	-	-	0	0	674	0	76	0	750	0
8	1,278	116	116	116	31	1555	147	10	0	1565	147
WASA Subtotal	20,183	10,871	5,954	5,203	1,787	20,506	10,906	2,788	1,897	23,294	12,803
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871		87%	30%					23,294	12,803
% Cleaned/Inspected to Date										>100%	>100%

3.2 BMP Demonstration Projects

WASA operates the following demonstration projects designed to remove solids and floatables from CSO prior to discharge.

- Netting system at CSO 018 to Anacostia River
- Bar Rack at CSO 040 and 041 to Rock Creek

**Table 4-2
BMP Demonstration Projects – Report**

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (CY)</i>
Netting System CSO 018	8/6/2012	Netting platform has dropped under the water level.	Boom and flotation replacement	None. Seeking bids to perform repair work.	None collected
Bar Rack CSO 040	8/10/12	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	8/10/12	Good	None	Routine Cleaning	(1)

Notes:

(1) System is designed such that captured solids and floatable are conveyed to Blue Plains for treatment.

3.3 Anacostia River Floating Debris Removal Program

This program was initiated in September 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of WASA, Department of Sewer Services. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

**Table 4-3
Anacostia River Floating Debris Removal Program – Summary**

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	23
<i>Days not Operating</i>	4
<i>Reason not Operating</i>	High winds, low tide, and PM service.
<i># Skimmer in Fleet</i>	3 skimmers
<i># Skimmers Out of Service</i>	2 skimmers
<i>Dates</i>	B28: 8/1 - 8/28 B29: 8/1 - 8/2
<i>Reason</i>	B28: PORT prop pod weld rusted through. B29: Damaged front roller.
<i>Plan to Restore to Service</i>	B28: repaired 8/28 B29: repaired 8/2
<i>Volume Material Collected</i>	30 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

3.4 CSS Litter Control

This section describes WASA’s efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

Status: no activities this month.

4. MONITORING

4.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

**Table 5.1
Bar Racks at Main & O Street Pumping Stations**

Inspector: Claude Price

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	8/22/12	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	8/22/12	X			

5.2 Rain Data

Rain data from National Airport and from the rain gauges installed in the CSS are summarized below.

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
8/1/2012	0	0	0	0
8/2/2012	0	0	0	0
8/3/2012	0	0.01	0	0
8/4/2012	0	0	0	0
8/5/2012	0.01	0.05	0.02	0.05
8/6/2012	0	0	0.01	0
8/7/2012	0	0	0	0
8/8/2012	0	0	0	0
8/9/2012	0	0	0	0
8/10/2012	0.82	0.66	0.77	0.37
8/11/2012	0.27	0.81	0.05	0.31
8/12/2012	0	0	0	0
8/13/2012	0	0	0	0
8/14/2012	0.16	0.09	0.11	0.1
8/15/2012	0	0	0	0
8/16/2012	0	0	0	0
8/17/2012	0.01	0	0	0
8/18/2012	0.1	0.11	0.14	0.15
8/19/2012	0.14	0.22	0.12	0.66
8/20/2012	0	0.25	0	0.12
8/21/2012	0	0.57	0.27	0.07
8/22/2012	0	0.01	0.43	0.01
8/23/2012	0	0	0	0
8/24/2012	0	0	0	0
8/25/2012	0.01	0.02	0.02	0.02
8/26/2012	0	0.19	0.19	0.33
8/27/2012	0	0	0	0
8/28/2012	0	0	0.02	0.02
8/29/2012	0	0	0	0
8/30/2012	0	0	0	0
8/31/2012	0	0	0	0
TOTAL	1.52	2.99	2.15	2.21



**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY**
Serving the Public • Protecting the Environment

**Monthly Operations Report
For
Combined Sewer System
Month: September 2012**

Prepared By:
District of Columbia
Water and Sewer Authority
Department of Sewer Services
Washington, D.C. 20003

DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Washington, D.C.

Monthly Operations Report for Combined Sewer System
Month: September 2012

Table of Contents

- 1. INTRODUCTION**
- 2. OPERATION AND MAINTENANCE**
 - 2.1 Regulators
 - 2.2 Outfalls, Tide Gates and CSO Signs
 - 2.3 Pumping Stations
 - 2.4 Northeast Boundary Swirl Facility
 - 2.5 Inflatable Dams
- 3. DRY WEATHER OVERFLOWS**
- 4. SOLIDS AND FLOATABLES CONTROL**
 - 4.1 Catch Basin Cleaning
 - 4.2 BMP Demonstration Projects
 - 4.3 Skimmer Boat Programs
 - 4.4 CSS Litter Control
- 5. MONITORING**
 - 5.1 Bar Racks at Main & O Street
 - 5.2 Rainfall Data

1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve parts of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the operations of the combined sewer system for the month indicated.

2. OPERATION AND MAINTENANCE

2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/27/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/27/12	*			
5	Poplar Point Pumping Station	004	09/28/12	*			
6	Chicago Street and Railroad Ave, SE	005	09/10/12	*			
7	W Street and Railroad Ave, SE	005	09/10/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ³				
9	13 th Street and Ridge Place, SE	007	09/10/12	*			
11	"O" Street Pumping Station	011(a)	09/28/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	09/28/12	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	09/28/12	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	09/28/12	*			
15	South Capitol and E Streets	010	09/28/12	*			
15a	Half and L Streets, SE	010	09/28/12	*			
15b	South Capitol and I Streets	010	09/05/12	*			
15c	South Capitol and I Streets	010	09/05/12	*			
16	North of Main Sewage Pumping Station	012	09/28/12	*			
17	4 th and N Streets, SE, Both Extended	013	09/17/12	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	09/13/12	*			
18	6 th and M Streets, SE	014	09/20/12	*			
19	9 th and M Streets, SE	015	09/20/12	*			
19a	9 th and M Streets, SE	015	09/04/12				Contractor at work
20	12 th and M Streets, SE	016	09/17/12	*			
20a	12 th and M Streets, SE	016	09/17/12	*			
21	14 th and M Streets, SE	017	09/17/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	09/20/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	09/20/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	09/07/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	09/07/12	*			
22e	14 th Street and Kentucky Ave, SE	018	09/07/12	*			

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
23	Independence Ave, 21 st Street, SE, Extended	019	09/14/12	*			
24a	East Capitol St, west of RFK stadium	019	09/14/12	*			
28	21 st and Constitution Ave, NW	020	09/27/12	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	09/27/12	*			
30	17 th and D Streets, NW	020	09/10/12	*			
31	15 th Street and Pennsylvania Ave, NW	020	09/10/12	*			
33	10 th and F Streets, NW	020	09/10/12	*			
34	23 rd Street, north of Constitution Ave, NW	020	09/28/12	*			
34a	23 rd Street near C Street, NW	020	09/27/12	*			
35	Northeast of Roosevelt Bridge, NW	021	09/28/12	*			
36	27 th and I Streets, NW	022	09/04/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	09/04/12	*			
36b	19 th and L Streets, NW	022, 034	09/26/12	*			
36d	17 th and L Streets, NW	022, 034	09/26/12	*			
36g	18 th and M Streets, NW	022, 034	09/26/12	*			
36h	18 th and M Streets, NW	022, 034	09/26/12	*			
37	27 th and Eye Streets, NW	022	09/04/12	*			
38	29 th and K Streets, NW	024	09/13/12	*			
38a	30 th Street, south of K Street, NW	024	09/13/12	*			
39a	30 th and K Streets, NW	024	09/13/12	*			
39b	30 th and K Streets, NW	024	09/13/12	*			
41b	31 st and K Streets, NW	025	09/13/12	*			
41c	31 st and K Streets, NW	025	09/13/12	*			
42	Wisconsin Ave and K Street, NW	026	09/13/12	*			
43	Potomac and Water Streets, NW	027	09/13/12	*			
43a	Potomac and Water Streets, NW	027	09/13/12	*			
44	Water Street, west of Potomac St, NW	027	09/13/12	*			
45	36 th and M Streets, NW	028	09/07/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	09/07/12	*			
47	38 th Street and Reservoir Road, NW	029	09/07/12	*			
47a	37 th and T Streets, NW	029	09/07/12	*			

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47b	37 th and T Streets, NW	029	09/07/12	*			
47c	38 th and W Streets, NW	029	09/07/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ³				
50	26 and M Streets, NW	032	09/06/12	*			
51	N Street Extended, west of 25 th Street, NW	033	09/06/12	*			
52	22 nd Street between M and N Streets, NW	034	09/28/12	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	09/06/12	*			
53	22 nd and M Streets, NW	022, 034	09/06/12	*			
53a	22 nd and M Streets, NW	022, 034	09/06/12	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	09/26/12	*			
53c	L and 22 nd Streets, NW	022	09/26/12	*			
54	23 rd and O Streets, NW	034	09/26/12	*			
55	22 nd Street, south of Q Street, NW	035	09/26/12	*			
55a	22 nd Street, south of Q Street, NW	035	09/26/12	*			
56	23 rd and Massachusetts Ave, NW	036	09/26/12	*			
57	23 rd Street, south of Q Street, NW	036	09/26/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ³				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	09/21/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	09/21/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	09/21/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	09/25/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	09/25/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	09/25/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	09/25/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	09/25/12	*			
66	Adams Mill Road and Lamont Street, NW	045	09/25/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	09/25/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	09/25/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	09/25/12	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	09/25/12	*			
70i	5 th and Quackenbos Streets, NW	049	09/06/12	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	09/11/12	*			

<i>Struct No.</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
72	Olive Street Extended and Rock Creek Pkwy, NW	051	09/11/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	09/11/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	09/11/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A ³				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	09/21/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	09/21/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	09/26/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	09/21/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ³				
84	26 th and P Streets, NW	060	09/11/12	*			
84a	26 th and P Streets, NW	060	09/11/12	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.
3. Structure no longer functions as a combined sewer overflow regulator structure.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

Table 2 - Outfalls and Tide Gates

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	09/27/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	09/27/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge ¹	09/27/12									
007	Between 11 th St. and Anacostia Bridges, SE	09/27/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	09/11/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	09/11/12	*			*			*		
011	Main Sewage Pumping Station, SE	09/11/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	09/11/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	09/11/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	09/11/12	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	09/11/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	09/11/12	*			*			*		
016	12th and O Streets, SE	09/11/12	*		*		*		*		
017	M and Water Street, SE	09/11/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	09/11/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	09/11/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	09/19/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	09/19/12	*			*			*		
022	Rock Creek Parkway and G St., NW	09/07/12	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	09/07/12	*		*		*		*		
025	South of 31st and K Streets, NW	09/07/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	09/07/12	*		*		*		*		
027	33 rd and Water Sts., NW	09/07/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	09/07/12	*			*			*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
029	Adjacent to C&O Canal, aligned with 38 th St. NW	09/07/12	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW ¹	N/A									
032	26th and M Street, NW.	09/19/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	09/19/12	*		*			*	*		
034	Just west of St. Francis Jr. High and north of N St., NW	09/26/12	*		*			*	*		
035	P St. Bridge and Rock Creek Parkway	09/26/12	*		*			*	*		
036	22nd Street, South of Q Street NW.	09/18/12	*		*			*	*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A			*			*			
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	09/21/12	*		*			*	*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	09/18/12	*		*			*	*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	09/18/12	*		*			*	*		
041	Beach Dr. and Ontario Pl., NW	09/18/12	*		*			*	*		
042	Harvard St. and Beach Dr NW.	09/18/12	*		*			*	*		
043	Upstream of Harvard St. and Beach Dr NW.	09/18/12	*		*			*	*		
044	Kenyon Street and Beach Dr., NW.	09/18/12	*		*			*	*		
045	North of Beach Dr. and Walbridge Pl, NW.	09/18/12	*		*			*	*		
046	Piney Branch Parkway and Park Road, NW.	09/25/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	09/07/12	*		*			*	*		
048	South of Piney Branch Parkway and 17 th St.	09/07/12	*		*			*	*		
049	North of Piney Branch Parkway and 17 th St.	09/07/12	*		*			*	*		
050	Rock Creek Parkway and L St., NW	09/07/12	*		*			*	*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	09/07/12	*		*			*	*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	09/07/12	*		*			*	*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	09/07/12									
054	Massachusetts Ave & Rock Creek Parkway, NW.	09/07/12	*		*			*	*		

NPDES Outfall	Location	Date Inspected	Outfall Condition		Tide Gate Present?		Tide Gate Condition		CSO Sign		Notes, Work Needed or Performed
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
056	Normanstone Dr. and Rock Creek Parkway, NW.	09/07/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	09/07/12	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	09/18/12				*					
060	North of P St. Bridge & Rock Creek Pkwy, NW	09/18/12	*		*		*		*		

Notes:

1. Structure no longer functions as a combined sewer outfall.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

**Table 2-3
Pumping Stations – Inspections and Equipment in Service**

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
Main	30	4	10	#3 Sanitary Pump #2 Screen	September 1-30 September 1-30	Pump being rehabbed Screen being rehabbed	December 2012 December 2012
Eastside	30	2	4	#2 Screen	September 1-30	Screen being rehabbed	December 2012
Poplar Point	30	2	3	#1 Screen	September 1-30	Screen being rehabbed	December 2012
Potomac	30	4	5	#2 Sanitary Pump #4 Screen	September 1-24 September 1-30	Pump being rehabbed Screen being rehabbed	Completed September 2012 December 2012

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Table 2-4
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
Main	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	9/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

Check depth of screening in the screen room and schedule Vactor truck as required

Check all safety equipment

Issue work order requests as required

**Table 2-5
Pumping Stations – Pumpage**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Storm Water/CSO Pumped To Anacostia River</i>		
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>	<i>Date</i>	<i>Volume (mg)</i>	<i>Screenings Collected (units)¹</i>
Main	1,536.90	51.23	N/A	N/A	N/A
O St	131.20	4.37	9/2/2012	25.60	Normal
			9/8/2012	77.70	Normal
			9/18/2012	29.40	Normal
			9/28/2012	7.60	Normal
Eastside	309.69	10.32	N/A	N/A	N/A
Poplar Point	647.28	21.58	N/A	N/A	N/A
Potomac	3,166.10	105.54	N/A	N/A	N/A
Rock Creek	151.67	5.06	N/A	N/A	N/A
Upper Anacostia	147.71	4.92	N/A	N/A	N/A
Earle Place	0.18	0.01	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

2-4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service

<i>Date Inspected</i>	<i># of Screens</i>	<i># of Swirls</i>	<i>Screens or Swirls Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
9/26/12	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
9/27/12	Group A	

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

<i>Date</i>	<i>Approx. Storm Duration (hrs)</i>	<i>Total Influent Volume (mg)</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
9/1/2012	4	4.0	4.0	0.0	96.0
9/2/2012	4	7.2	7.2	0.0	24.0
9/8/2012	6.5	5.3	5.3	0.0	40.0
9/18/2012	4	2.2	2.2	0.0	40.0
9/18/2012	4.5	6.0	6.0	0.0	160.0
9/28/2012	6.5	18.2	18.2	0.0	48.0

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

<i>Date</i>	<i>Chlor/ Dechlor System Used?</i>	<i>Dosages</i>		<i>Residual Chlorine Test Results</i>		<i>E. Coli Test Results</i>	
		<i>NaOCl (mg/l)</i>	<i>NaHSO₃ (mg/l)</i>	<i>Location</i>	<i>Conc. (mg/l)</i>	<i>Site</i>	<i>Count Per 100ml</i>
N/A				Mix Chamber		Mix Chamber	
				Anacostia River ¹		Anacostia River ¹	

Notes:

1. River: River Outfall

Table 2-10
Northeast Boundary Swirl Facility – Effluent Sampling Results

<i>Date</i>	<i>Flow Composited Sample Results</i>						
	<i>Total suspended solids (mg/L)</i>	<i>Nitrite (NO₂-N) mg/L</i>	<i>Nitrate (NO₃-N) mg/L</i>	<i>Total Kjeldahl Nitrogen (mg/L as N)</i>	<i>Total Nitrogen (mg/L)</i>	<i>Total Phosphorus (mg/L)</i>	<i>Carbonaceous Biological Oxygen Demand (mg/L)</i>
N/A							

2.5 Inflatable Dams

WASA operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-10. The inflatable dams consist of multi-ply elastomeric (i.e., “rubber”) fabric dams installed in major overflow conduits within the combined sewer system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflows occur. The effect of the installation is to retain a greater volume of combined sewage flow resulting from low to moderate intensity storms by maximizing storage within the CSS. During higher intensity storms, when the full carrying capacity of the overflow conduit is required to prevent upstream flooding, the dam is deflated automatically. Inflatable dam operations are summarized below:

**Table 2-11
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	9/20/2012	No	N/A	N/A	N/A
14 - West	9/20/2012	No	N/A	N/A	N/A
15	9/20/2012	No	N/A	N/A	N/A
15A	9/20/2012	No	N/A	N/A	N/A
16 - East	9/20/2012	No	N/A	N/A	N/A
16 - West	9/20/2012	No	N/A	N/A	N/A
24 - North	9/20/2012	No	N/A	N/A	N/A
24 - Middle	9/20/2012	No	N/A	N/A	N/A
24 - South	9/20/2012	No	N/A	N/A	N/A
34	9/20/2012	No	N/A	N/A	N/A
35	9/20/2012	No	N/A	N/A	N/A
52	9/20/2012	No	N/A	N/A	N/A

**Table 2-12
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
14 (E & W)	None	N/A
15	9/1	3 mins
	9/2	4 mins
	9/8	10 mins
	9/18	4 mins
15A	9/1	50 mins
	9/2	98 mins
	9/3	2 mins
	9/8	107 mins
	9/18	59 mins
16 (E & W)	9/8	10 mins
	9/18	2 mins
24	9/2	27 mins
	9/3	2 mins
	9/8	4 mins
	9/11	11 mins
	9/18	21 mins
34	9/2	38 mins
	9/8	21 mins
	9/18	23 mins
35	9/1	3 mins
	9/2	39 mins
	9/8	26 mins
	9/18	16 mins
52	None	N/A
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.
Outfall Structure 2	None	None
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during September 2012.

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

Table 4-1 Catch Basin Summaries

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned this Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	608	2456	2187	227	227	2683	2414
2	4,714	4,112	2,316	2316	553	4084	3554	797	695	4881	4249
3	3,555	461	-	0	0	5365	737	84	0	5449	737
4	2,782	1,985	159	159	159	4559	3148	36	2	4595	3150
5	2,167	1,035	1,035	1035	1035	3171	1873	429	204	3600	2077
6	1,783	1,594	1,594	1565	271	1344	1157	457	408	1801	1565
7	2,313	-	-	0	0	750	0	384	0	1134	0
8	1,278	116	116	116	116	1565	147	102	9	1667	156
WASA Subtotal	20,183	10,871	5,954	5,925	2,742	23,294	12,803	2,516	1,545	25,810	14,348
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871								25,810	14,348
% Cleaned/Inspected to Date				99%	46%					>100%	>100%

3.2 BMP Demonstration Projects

WASA operates the following demonstration projects designed to remove solids and floatables from CSO prior to discharge.

- Netting system at CSO 018 to Anacostia River
- Bar Rack at CSO 040 and 041 to Rock Creek

**Table 4-2
BMP Demonstration Projects – Report**

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (CY)</i>
Netting System CSO 018	9/7/2012	Netting platform has dropped under the water level.	Boom and flotation replacement	None. Reviewing bids to perform repair work.	None collected
Bar Rack CSO 040	9/18/2012	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	9/18/2012	Good	None	Routine Cleaning	(1)

Notes:

(1) System is designed such that captured solids and floatable are conveyed to Blue Plains for treatment.

3.3 Anacostia River Floating Debris Removal Program

This program was initiated in September 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of WASA, Department of Sewer Services. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

**Table 4-3
Anacostia River Floating Debris Removal Program – Summary**

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	21
<i>Days not Operating</i>	4
<i>Reason not Operating</i>	High winds, low tide, and PM service.
<i># Skimmer in Fleet</i>	3 skimmers
<i># Skimmers Out of Service</i>	2
<i>Dates</i>	B28: 9/12 - 9/30 B29: 9/9 - 9/20
<i>Reason</i>	B28: hydraulic oil leak front ram and low voltage. B29: shut down and would not run.
<i>Plan to Restore to Service</i>	B28: ETR unknown. B29: repaired 9/20.
<i>Volume Material Collected</i>	20 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

3.4 CSS Litter Control

This section describes WASA’s efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

Status: no activities this month.

4. MONITORING

4.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

**Table 5.1
Bar Racks at Main & O Street Pumping Stations**

Inspector: Claude Price

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	CP	9/12/2012	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	9/12/2012	X			

5.2 Rain Data

Rain data from National Airport and from the rain gauges installed in the CSS are summarized below.

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
9/1/2012	0.03	0.13	0.53	0.3
9/2/2012	0	2.8	0.01	0
9/3/2012	0	0	0	0
9/4/2012	0	0.01	0	0.11
9/5/2012	0	0	0.09	0
9/6/2012	0	0.1	0.18	0.14
9/7/2012	0	0	0	0
9/8/2012	0.08	0.86	0.69	0.79
9/9/2012	0	0	0	0
9/10/2012	0	0	0	0
9/11/2012	0	0	0	0
9/12/2012	0	0	0	0
9/13/2012	0	0	0	0
9/14/2012	0	0	0	0
9/15/2012	0	0	0	0
9/16/2012	0	0	0	0
9/17/2012	0.01	0.11	0.09	0.12
9/18/2012	0.56	0.64	0.81	0.67
9/19/2012	0	0	0	0
9/20/2012	0	0	0	0
9/21/2012	0	0	0	0
9/22/2012	0	0	0	0
9/23/2012	0	0	0	0
9/24/2012	0	0	0	0
9/25/2012	0	0	0	0
9/26/2012	0	0	0.01	0
9/27/2012	0.01	0.39	0.42	0.43
9/28/2012	0.08	0.13	0.21	0.14
9/29/2012	0	0	0	0
9/30/2012	0.01	0.01	0	0.03
TOTAL	0.78	5.18	3.04	2.73

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: July, August & September 2012
SCENARIO: Q3Y2012, October 15, 2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	17	3.16	31.25	1.84	4.75	0.25
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 th Street and Ridge Place, SE	9	6.10	10.00	1.11	3.50	0.25
009	2nd Street, 300 feet North of N Place, SE	11	2.16	12.50	1.14	2.25	0.25
010	O Street Sewage Pumping Station, SE (pumped overflow)	7	34.24	8.50	1.21	3.75	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	4	27.96	8.00	2.00	2.75	1.25
013	4th and N Streets, SE	13	3.07	23.75	1.83	4.75	0.25
014	6th and M Streets, SE	12	4.97	18.25	1.52	4.00	0.25
015	9th and M Streets, SE	11	1.16	7.75	0.70	1.75	0.25
016	12th and M Streets, SE	6	3.21	7.25	1.21	2.00	0.75
017	14th and M Streets, SE	15	9.42	27.75	1.85	4.50	0.50
018	Barney Circle and Pennsylvania Ave, SE	9	7.68	15.75	1.75	3.50	0.25
019	Northeast Boundary - Swirl Effluent	8	158.14	45.50	5.69	9.25	2.25
019	Northeast Bound. - Swirl Bypass	7	177.27	6.75	0.96	1.75	0.25
	SUBTOTAL		438.53				
Potomac CSOs							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
020	23rd Street, North of Constitution Ave, NW (Easby Point)	7	20.84	12.25	1.75	3.50	1.00
021	Northeast of Roosevelt Bridge, NW	7	110.32	13.25	1.89	2.75	1.00
022	27th and K Streets, NW	15	31.86	19.75	1.32	3.25	0.25
024	30th and K Streets, NW	12	11.77	18.75	1.56	5.50	0.25
025	31st & K St NW	8	0.52	5.00	0.63	1.25	0.25
026	Wisconsin Avenue and K St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	44	51.37	429.75	9.77	89.50	0.50
028	36th and M Streets, NW	43	5.87	123.50	2.87	31.25	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	14	8.20	18.25	1.30	5.25	0.25
	SUBTOTAL		240.76				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extended west of 25th Street, NW	1	0.34	1.00	1.00	1.00	1.00
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	1	2.11	0.50	0.50	0.50	0.50
036	22nd Street South of Q Street, NW	22	0.798	42.25	1.92	14.50	0.25
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road, east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	1	0.03	0.25	0.25	0.25	0.25
040	Biltmore Street extended east of Rock Creek, NW	1	0.20	0.75	0.75	0.75	0.75
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: July, August & September 2012
SCENARIO: Q3Y2012, October 15, 2012

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
042	Harvard Street and RockCreek Parkway, NW	1	0.21	0.75	0.75	0.75	0.75
043	Adams Mill Road South of Irving Street, NW	5	1.61	2.00	0.40	0.75	0.25
044	Kenyon Street and Adams Mill Road, NW	1	0.04	0.75	0.75	0.75	0.75
045	Adams Mill Road and Lamont Street, NW	6	0.16	2.75	0.46	0.75	0.25
046	Park Road south of Piney Branch Parkway, NW	3	0.04	1.00	0.33	0.50	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	2	0.12	1.00	0.50	0.75	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	3	0.33	1.75	0.58	0.75	0.50
049	Piney Branch and LamontStreet, NW	31	55.461	84.25	2.72	25.00	0.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	13	6.02	49.50	3.81	29.00	0.25
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		67.49				
	TOTAL		746.79				

C:\LTCP\DSS\2012-Q3\Q3Y2012_Report_15Oct2012.xlsx\Q3Y2012

Prepared by: Greeley and Hansen LLC and Limno-Tech, Inc.