

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH QUARTER, 2012

Prepared By:

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

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

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Monthly Operations Report for Combined Sewer System
Month: October 2012

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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>
				<i>Good</i>	<i>Needs Work</i>		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/01/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/01/12	*			
5	Poplar Point Pumping Station	004	10/12/12	*			
6	Chicago Street and Railroad Ave, SE	005	10/10/12	*			
7	W Street and Railroad Ave, SE	005	10/10/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	10/10/12	*			
11	"O" Street Pumping Station	011(a)	10/04/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/04/12	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/12/12	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/04/12	*			
15	South Capitol and E Streets	010	10/11/12	*			
15a	Half and L Streets, SE	010	10/11/12	*			
15b	South Capitol and I Streets	010	10/11/12	*			
15c	South Capitol and I Streets	010	10/11/12	*			
16	North of Main Sewage Pumping Station	012	10/11/12	*			
17	4 th and N Streets, SE, Both Extended	013	10/03/12	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	10/12/12	*			
18	6 th and M Streets, SE	014	10/01/12	*			
19	9 th and M Streets, SE	015	10/31/12	*			
19a	9 th and M Streets, SE	015	10/31/12				Contractor at work
20	12 th and M Streets, SE	016	10/31/12	*			
20a	12 th and M Streets, SE	016	10/31/12	*			
21	14 th and M Streets, SE	017	10/31/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/24/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/24/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/24/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/24/12	*			

<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	10/24/12	*			
23	Independence Ave, 21 st Street, SE, Extended	019	10/24/12	*			
24a	East Capitol St, west of RFK stadium	019	10/12/12	*			
28	21 st and Constitution Ave, NW	020	10/12/12	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/24/12	*			
30	17 th and D Streets, NW	020	10/24/12	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/24/12	*			
33	10 th and F Streets, NW	020	10/24/12	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/25/12	*			
34a	23 rd Street near C Street, NW	020	10/24/12	*			
35	Northeast of Roosevelt Bridge, NW	021	10/25/12	*			
36	27 th and I Streets, NW	022	10/04/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/04/12	*			
36b	19 th and L Streets, NW	022, 034	10/12/12	*			
36d	17 th and L Streets, NW	022, 034	10/12/12	*			
36g	18 th and M Streets, NW	022, 034	10/12/12	*			
36h	18 th and M Streets, NW	022, 034	10/12/12	*			
37	27 th and Eye Streets, NW	022	10/12/12	*			
38	29 th and K Streets, NW	024	10/04/12	*			
38a	30 th Street, south of K Street, NW	024	10/12/12	*			
39a	30 th and K Streets, NW	024	10/12/12	*			
39b	30 th and K Streets, NW	024	10/12/12	*			
41b	31 st and K Streets, NW	025	10/12/12	*			
41c	31 st and K Streets, NW	025	10/12/12	*			
42	Wisconsin Ave and K Street, NW	026	10/01/12	*			
43	Potomac and Water Streets, NW	027	10/01/12	*			
43a	Potomac and Water Streets, NW	027	10/01/12	*			
44	Water Street, west of Potomac St, NW	027	10/01/12	*			
45	36 th and M Streets, NW	028	10/18/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/18/12	*			
47	38 th Street and Reservoir Road, NW	029	10/18/12	*			

<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	10/18/12	*			
47b	37 th and T Streets, NW	029	10/18/12	*			
47c	38 th and W Streets, NW	029	10/18/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	10/03/12	*			
51	N Street Extended, west of 25 th Street, NW	033	10/03/12	*			
52	22 nd Street between M and N Streets, NW	034	10/25/12	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	10/25/12	*			
53	22 nd and M Streets, NW	022, 034	10/26/12	*			
53a	22 nd and M Streets, NW	022, 034	10/26/12	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	10/22/12	*			
53c	L and 22 nd Streets, NW	022	10/22/12	*			
54	23 rd and O Streets, NW	034	10/22/12	*			
55	22 nd Street, south of Q Street, NW	035	10/22/12	*			
55a	22 nd Street, south of Q Street, NW	035	10/22/12	*			
56	23 rd and Massachusetts Ave, NW	036	10/22/12	*			
57	23 rd Street, south of Q Street, NW	036	10/16/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ¹				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/04/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/04/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/04/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/23/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/23/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/23/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/23/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/23/12	*			
66	Adams Mill Road and Lamont Street, NW	045	10/23/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	10/23/12	*			
68	Ingleside Terrace, Extended and Piney Branch Parkway, NW	047	10/23/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/23/12	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/23/12	*			

<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	10/01/12	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/01/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/03/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/03/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/24/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A ¹				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/10/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	10/10/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	10/26/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	10/10/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	10/03/12	*			
84a	26 th and P Streets, NW	060	10/03/12	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure
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.

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	10/01/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	10/18/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	10/18/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/04/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/04/12	*			*			*		
011	Main Sewage Pumping Station, SE	10/04/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/04/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/04/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	10/18/12	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	10/18/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/18/12	*			*			*		
016	12th and O Streets, SE	10/18/12	*		*		*		*		
017	M and Water Street, SE	10/18/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	10/18/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	10/18/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/26/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/26/12	*			*			*		
022	Rock Creek Parkway and G St., NW	10/26/12	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	10/04/12	*		*		*		*		
025	South of 31st and K Streets, NW	10/04/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	10/04/12	*		*		*		*		
027	33 rd and Water Sts., NW	10/04/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/04/12	*			*			*		

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	10/04/12	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									
032	26th and M Street, NW.	10/01/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/01/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/22/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/22/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	10/26/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A ¹			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/10/12	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/04/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/04/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/31/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/31/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/31/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/31/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/31/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/23/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/23/12	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	10/23/12	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/23/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/01/12	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	10/31/12	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	10/31/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	10/10/12	*		*		*		*		

<i>NPDES Outfall</i>	<i>Location</i>	<i>Date Inspected</i>	<i>Outfall Condition</i>		<i>Tide Gate Present?</i>		<i>Tide Gate Condition</i>		<i>CSO Sign</i>		<i>Notes, Work Needed or Performed</i>
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
056	Normanstone Dr. and Rock Creek Parkway, NW.	10/10/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	10/10/12	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW.	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	10/26/12	*		*		*		*		

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 #2 Screen	October 1-31 October 1-31	Pump being rehabbed Screen being rehabbed	March 2013 March 2013
Eastside	31	2	4	#2 Screen	October 24-31	Screen being rehabbed	March 2013
Poplar Point	31	2	3	#1 Screen	October 9-31	Screen being rehabbed	March 2013
Potomac	31	4	5	#2 Sanitary Pump #4 Screen	October 9-31 October 1-31	Pump being rehabbed Screen being rehabbed	February 2013 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	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	10/26/2012	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	1,944.20	62.72	N/A	N/A	N/A
O St	175.60	5.66	10/2	5.0	Normal
			10/19	16.8	Normal
			10/29	300.7	Normal
			10/30	174.3	Normal
Eastside	276.62	8.92	N/A	N/A	N/A
Poplar Point	685.80	22.12	N/A	N/A	N/A
Potomac	3,536.20	114.07	N/A	N/A	N/A
Rock Creek	236.67	7.63	N/A	N/A	N/A
Upper Anacostia	165.42	5.34	N/A	N/A	N/A
Earle Place	0.21	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>
10/26/12	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>
10/25/12	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 Vactor 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>
10/2/2012	4.5	18.4	3.9	14.5	180
10/19/2012	6	12.0	12.0	0	240
10/29/2012	5	41.4	5.4	36.0	220
10/29/2012	4	20.7	2.6	18.1	20
10/29/2012	8	60.1	5.0	55.0	240
10/30/2012	8	38.2	7.2	31.0	240
10/30/2012	6.5	6.3	4.8	1.6	240

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>
10/2	Yes	5	2	Mix Chamber	0.1	Mix Chamber	<10
				Anacostia River ¹	0.0	Anacostia River ¹	2,900
10/29	Yes	5	2	Mix Chamber	0.1	Mix Chamber	380
				Anacostia River ¹	0.0	Anacostia River ¹	4,400
10/29	Yes	5	2	Mix Chamber	0.1	Mix Chamber	45
				Anacostia River ¹	0.0	Anacostia River ¹	480
10/30	Yes	5	2	Mix Chamber	0.2	Mix Chamber	350
				Anacostia River ¹	0.0	Anacostia River ¹	290
10/30	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>
10/2/12	142	0.00	0.42	6.20	6.62	0.72	38.8
10/29/12	16.0	0.00	0.75	2.17	2.92	0.33	10.6

2.5 Inflatable Dams

DC WATER 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	10/20/2012	No	N/A	N/A	N/A
14 - West	10/20/2012	No	N/A	N/A	N/A
15	10/20/2012	No	N/A	N/A	N/A
15A	10/20/2012	No	N/A	N/A	N/A
16 - East	10/20/2012	No	N/A	N/A	N/A
16 - West	10/20/2012	No	N/A	N/A	N/A
24 - North	10/20/2012	No	N/A	N/A	N/A
24 - Middle	10/20/2012	No	N/A	N/A	N/A
24 - South	10/20/2012	No	N/A	N/A	N/A
34	10/20/2012	No	N/A	N/A	N/A
35	10/20/2012	No	N/A	N/A	N/A
52	10/20/2012	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	10/2	4 mins
	10/19	4 mins
	10/29	15 mins
15A	10/2	75 mins
	10/19	39 mins
	10/29	50 mins
16 (E & W)	10/29	64 mins
24	10/2	7 mins
	10/19	14 mins
	10/29	158 mins
34	10/19	26 mins
	10/29	17 mins
35	10/2	23 mins
	10/19	31 mins
	10/29	9 hours, 19 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 October 2012.

Sanitary Sewer Overflow:

Location	Beech St. and 32 nd St. NW.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority was dispatched to investigate a service call regarding a sewer leak coming from a manhole at 3129 Beech St NW. The crew found three manholes obstructed. There was a piece of milled asphalt in a 10 inch sanitary sewer causing the problem. The flow through the manholes entered Pinehurt Branch.
Date/ Time Discovered	October 28, 2012 at 3:30 pm
Action Taken	The DC Water crew removed milled asphalt from a 10 inch sanitary sewer.
Date/Time Discharge Ceased	October 28, 2012 at 6:30 pm
Estimated Volume	2,000 gallons
Did Overflow Reach Receiving water?	Yes. Pinehurst Branch, a tributary into Rock Creek.
Action taken to prevent reoccurrence	The Department of Engineering and Technical Services has assigned engineering consultants Arcadis/Malcolm Pirnie and one of their CCTV contractors to perform in-depth inspection and condition assessment of all the sewers in the area to make recommendations on action needed to prevent a recurrence.

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	734	2683	2414	26	26	2709	2440
2	4,714	4,112	2,316	2316	1437	4881	4249	250	184	5131	4433
3	3,555	461	-	0	0	5449	737	43	31	5492	768
4	2,782	1,985	159	159	159	4595	3150	0	0	4595	3150
5	2,167	1,035	1,035	1035	1035	3600	2077	343	213	3943	2290
6	1,783	1,594	1,594	1594	591	1801	1565	1041	620	2842	2185
7	2,313	-	-	0	0	1134	0	1664	0	2798	0
8	1,278	116	116	116	116	1667	156	0	0	1667	156
DC WATER Subtotal	20,183	10,871	5,954	5,954	4,072	25,810	14,348	3,367	1,074	29,177	15,422
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871								29,177	15,422
% Cleaned/Inspected to Date				100%	68%					>100%	>100%

3.2 BMP Demonstration Projects

DC WATER 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	10/1/2012	Netting platform has dropped under the water level.	Boom and flotation replacement	Bid awarded to perform repair work.	None collected
Bar Rack CSO 040	10/4/2012	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	10/31/2012	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 October 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 DC WATER, 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>	22
<i>Days not Operating</i>	6
<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: 10/1 - 10/31 B29: 10/9 - 10/31
<i>Reason</i>	B28: Leaking hydraulic fluid from starboard front ram. B29: Hydraulic leak port propulsion pod.
<i>Plan to Restore to Service</i>	B28: at Gates Marina for repair - unknown B29: unknown
<i>Volume Material Collected</i>	10 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

3.4 CSS Litter Control

This section describes DC WATER'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**

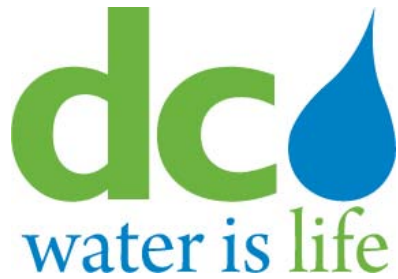
Inspector: Claude Price

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	10/19	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	10/19	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
10/1/2012	0	0	0	0
10/2/2012	0.47	0.67	0.35	0.78
10/3/2012	0.01	0	0	0
10/4/2012	0	0	0.01	0
10/5/2012	0	0	0	0
10/6/2012	0	0	0	0
10/7/2012	0.02	0.11	0.08	0.14
10/8/2012	0	0	0	0
10/9/2012	0.1	0.13	0.09	0.12
10/10/2012	0	0	0	0
10/11/2012	0	0	0	0
10/12/2012	0	0	0	0
10/13/2012	0	0	0	0
10/14/2012	0	0	0	0
10/15/2012	0.04	0.05	0.06	0.06
10/16/2012	0	0	0	0.01
10/17/2012	0	0	0	0
10/18/2012	0	0	0	0.05
10/19/2012	0.34	0.99	0.18	0.75
10/20/2012	0	0	0	0
10/21/2012	0	0	0	0
10/22/2012	0	0	0	0
10/23/2012	0	0	0	0
10/24/2012	0	0	0	0
10/25/2012	0	0	0	0
10/26/2012	0	0	0	0
10/27/2012	0	0	0	0
10/28/2012	0.06	0.12	0.15	0.13
10/29/2012	4.02	4.43	4.12	4.35
10/30/2012	0.92	0.77	0.74	0.01
10/31/2012	0.01	0.02	0	0
TOTAL	5.99	7.29	5.78	6.4



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

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

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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**

Struct No.	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/23/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/23/12	*			
5	Poplar Point Pumping Station	004	11/16/12	*			
6	Chicago Street and Railroad Ave, SE	005	11/16/12	*			
7	W Street and Railroad Ave, SE	005	11/16/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	11/14/12	*			
11	"O" Street Pumping Station	011(a)	11/14/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/14/12	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/26/12	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/27/12	*			
15	South Capitol and E Streets	010	11/23/12	*			
15a	Half and L Streets, SE	010	11/23/12	*			
15b	South Capitol and I Streets	010	11/07/12	*			
15c	South Capitol and I Streets	010	11/07/12	*			
16	North of Main Sewage Pumping Station	012	11/07/12	*			
17	4 th and N Streets, SE, Both Extended	013	11/27/12	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	11/30/12	*			
18	6 th and M Streets, SE	014	11/30/12	*			
19	9 th and M Streets, SE	015	11/08/12	*			
19a	9 th and M Streets, SE	015	11/02/12				Contractor at work
20	12 th and M Streets, SE	016	11/02/12	*			
20a	12 th and M Streets, SE	016	11/02/12	*			
21	14 th and M Streets, SE	017	11/23/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/20/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	11/20/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/20/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/14/12	*			

<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	11/14/12	*			
23	Independence Ave, 21 st Street, SE, Extended	019	11/14/12	*			
24a	East Capitol St, west of RFK stadium	019	11/09/12	*			
28	21 st and Constitution Ave, NW	020	11/09/12	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/09/12	*			
30	17 th and D Streets, NW	020	11/16/12	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/16/12	*			
33	10 th and F Streets, NW	020	11/09/12	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/09/12	*			
34a	23 rd Street near C Street, NW	020	11/23/12	*			
35	Northeast of Roosevelt Bridge, NW	021	11/08/12	*			
36	27 th and I Streets, NW	022	11/16/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/02/12	*			
36b	19 th and L Streets, NW	022, 034	11/02/12	*			
36d	17 th and L Streets, NW	022, 034	11/02/12	*			
36g	18 th and M Streets, NW	022, 034	11/02/12	*			
36h	18 th and M Streets, NW	022, 034	11/08/12	*			
37	27 th and Eye Streets, NW	022	11/01/12	*			
38	29 th and K Streets, NW	024	11/01/12	*			
38a	30 th Street, south of K Street, NW	024	11/01/12	*			
39a	30 th and K Streets, NW	024	11/01/12	*			
39b	30 th and K Streets, NW	024	11/23/12	*			
41b	31 st and K Streets, NW	025	11/23/12	*			
41c	31 st and K Streets, NW	025	11/02/12	*			
42	Wisconsin Ave and K Street, NW	026	11/02/12	*			
43	Potomac and Water Streets, NW	027	11/02/12	*			
43a	Potomac and Water Streets, NW	027	11/02/12	*			
44	Water Street, west of Potomac St, NW	027	11/02/12	*			
45	36 th and M Streets, NW	028	11/01/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/01/12	*			
47	38 th Street and Reservoir Road, NW	029	11/01/12	*			

<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	11/01/12	*			
47b	37 th and T Streets, NW	029	11/01/12	*			
47c	38 th and W Streets, NW	029	11/01/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	11/07/12	*			
51	N Street Extended, west of 25 th Street, NW	033	11/07/12	*			
52	22 nd Street between M and N Streets, NW	034	11/13/12	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	11/30/12	*			
53	22 nd and M Streets, NW	022, 034	11/30/12	*			
53a	22 nd and M Streets, NW	022, 034	11/30/12	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	11/07/12	*			
53c	L and 22 nd Streets, NW	022	11/07/12	*			
54	23 rd and O Streets, NW	034	11/13/12	*			
55	22 nd Street, south of Q Street, NW	035	11/13/12	*			
55a	22 nd Street, south of Q Street, NW	035	11/13/12	*			
56	23 rd and Massachusetts Ave, NW	036	11/13/12	*			
57	23 rd Street, south of Q Street, NW	036	11/07/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ¹				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/07/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/07/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/14/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/14/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	11/14/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	11/14/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/14/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/14/12	*			
66	Adams Mill Road and Lamont Street, NW	045	11/14/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	11/14/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/14/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/14/12	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/01/12	*			

<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	11/01/12	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	11/13/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/13/12	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/13/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/13/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A ¹				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/23/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	11/23/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	11/23/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	11/23/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	11/13/12	*			
84a	26 th and P Streets, NW	060	11/13/12	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
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.

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	11/14/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/01/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	11/01/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/14/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/14/12	*			*			*		
011	Main Sewage Pumping Station, SE	11/14/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/14/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/14/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	11/14/12	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	11/14/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/14/12	*			*			*		
016	12th and O Streets, SE	11/14/12	*		*		*		*		
017	M and Water Street, SE	11/14/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	11/14/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	11/14/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	11/20/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/20/12	*			*			*		
022	Rock Creek Parkway and G St., NW	11/20/12	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	11/20/12	*		*		*		*		
025	South of 31st and K Streets, NW	11/20/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	11/20/12	*		*		*		*		
027	33 rd and Water Sts., NW	11/20/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/20/12	*			*			*		

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	11/20/12	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									
032	26th and M Street, NW.	11/07/2	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/07/12	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/13/12	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/13/12	*		*		*		*		
036	22nd Street, South of Q Street NW.	11/23/12	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	N/A ¹			*		*				
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/07/12	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/07/12	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/07/12	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/20/12	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/20/12	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/20/12	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/20/12	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/20/12	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/14/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/14/12	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	11/14/12	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/14/12	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/08/12	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	11/08/12	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	11/08/12	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	11/23/12	*		*		*		*		

<i>NPDES Outfall</i>	<i>Location</i>	<i>Date Inspected</i>	<i>Outfall Condition</i>		<i>Tide Gate Present?</i>		<i>Tide Gate Condition</i>		<i>CSO Sign</i>		<i>Notes, Work Needed or Performed</i>
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
056	Normanstone Dr. and Rock Creek Parkway, NW.	11/23/12	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	11/23/12	*		*		*		*		
058	Connecticut Ave & Rock Creek Parkway, NW.	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	11/23/12	*		*		*		*		

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	November 1-30 November 1-30	Pump being rehabbed Screen being rehabbed	March 2013 March 2013
Eastside	30	2	4	#2 Screen	November 1-30	Screen being rehabbed	March 2013
Poplar Point	30	2	3	#1 Screen	November 1-30	Screen being rehabbed	March 2013
Potomac	30	4	5	#2 Sanitary Pump #4 Screen	November 1-30 November 1-30	Pump being rehabbed Screen being rehabbed	February 2013 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	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/26/2012	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

- 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	1,610.60	53.69	N/A	N/A	N/A
O St	128.90	4.30	N/A	N/A	N/A
Eastside	162.06	5.40	N/A	N/A	N/A
Poplar Point	637.92	21.26	N/A	N/A	N/A
Potomac	3,158.90	105.30	N/A	N/A	N/A
Rock Creek	155.83	5.19	N/A	N/A	N/A
Upper Anacostia	148.96	4.97	N/A	N/A	N/A
Earle Place	0.17	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>
11/26/12	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>
11/25/12	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 Vactor 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>
11/13/2012	8.5	5.10	5.10	0.000	80.0
11/13/2012	4	0.39	0.39	0.000	0.0

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	N/A	5	2	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.5 Inflatable Dams

DC WATER 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	11/20/2012	No	N/A	N/A	N/A
14 - West	11/20/2012	No	N/A	N/A	N/A
15	11/20/2012	No	N/A	N/A	N/A
15A	11/20/2012	No	N/A	N/A	N/A
16 - East	11/20/2012	No	N/A	N/A	N/A
16 - West	11/20/2012	No	N/A	N/A	N/A
24 - North	11/20/2012	No	N/A	N/A	N/A
24 - Middle	11/20/2012	No	N/A	N/A	N/A
24 - South	11/20/2012	No	N/A	N/A	N/A
34	11/20/2012	No	N/A	N/A	N/A
35	11/20/2012	No	N/A	N/A	N/A
52	11/20/2012	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)	<i>None</i>	<i>N/A</i>
15	<i>None</i>	<i>N/A</i>
15A	<i>11/13</i>	<i>2 mins</i>
16 (E & W)	<i>None</i>	<i>N/A</i>
24	<i>11/13</i>	<i>2 mins</i>
34	<i>None</i>	<i>N/A</i>
35	<i>11/13</i>	<i>37 secs</i>
52	<i>None</i>	<i>N/A</i>
<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 November 2012.

Sanitary Sewer Overflows:

Location	East Beach Dr. and Redbud Lane, NW.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority was dispatched to investigate a service call regarding an overflowing sewer manhole on the Maryland side of the District Line near East Beach Dr. and Redbud Lane, NW. The crew found a manhole that brings flow from Maryland into the District blocked with grease and overflowing into nearby unnamed stream.
Date/ Time Discovered	November 17, 2012 at 10:49 AM
Action Taken	The DC Water crew cleared the line and flushed it with a degreasing chemical.
Date/Time Discharge Ceased	November 17, 2012 at 2:30 PM
Estimated Volume	4,500 gallons
Did Overflow Reach Receiving water?	Yes. An unnamed stream that is a tributary to Rock Creek.
Action taken to prevent reoccurrence	DC Water has contacted Washington Suburban Sanitary Commission to monitor grease activity in the vicinity and plan to use a closed circuit television camera to evaluate the condition of the 12 inch sewer crossing to determine whether additional steps may be needed to prevent a recurrence.

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	734	2709	2440	59	55	2768	2495
2	4,714	4,112	2,316	2316	1849	5131	4433	670	412	5801	4845
3	3,555	461	-	0	0	5492	768	129	0	5621	768
4	2,782	1,985	159	159	159	4595	3150	0	0	4595	3150
5	2,167	1,035	1,035	1035	1035	3943	2290	224	196	4167	2486
6	1,783	1,594	1,594	1594	1460	2842	2185	907	869	3749	3054
7	2,313	-	-	0	0	2798	0	350	0	3148	0
8	1,278	116	116	116	116	1667	156	626	536	2293	692
DC WATER Subtotal	20,183	10,871	5,954	5,954	5,353	29,177	15,422	2,965	2,068	32,142	17,490
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				100%	90%					>100%	>100%

3.2 BMP Demonstration Projects

DC WATER 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	11/14/2012	Netting platform has dropped under the water level.	Boom and flotation replacement	Contractor removed unit for repair 11/19/2012	None collected
Bar Rack CSO 040	11/20/2012	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	11/20/2012	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 October 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 DC WATER, 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>	20
<i>Days not Operating</i>	16
<i>Reason not Operating</i>	High winds, low tide, and PM/repair service.
<i># Skimmer in Fleet</i>	3 skimmers
<i># Skimmers Out of Service</i>	3
<i>Dates</i>	B28: 11/1 - 11/30, B29: 11/1 - 11/30, B32: 11/15 - 11/30
<i>Reason</i>	B28: leaking hydraulic fluid from starboard front ram. B29: hydraulic leaks in both propulsion pods. B32: no. 3 rams stick in up position.
<i>Plan to Restore to Service</i>	B28: at Gates Marina for repair - ETR unknown. B29: ETR unknown. B32: ETR unknown.
<i>Volume Material Collected</i>	70 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

3.4 CSS Litter Control

This section describes DC WATER’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	11/20	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	11/20	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
11/1/2012	0	0	0	0
11/2/2012	0	0	0	0
11/3/2012	0	0	0	0
11/4/2012	0	0	0	0
11/5/2012	0	0	0	0
11/6/2012	0	0	0	0
11/7/2012	0	0.02	0.02	0.03
11/8/2012	0	0	0.01	0
11/9/2012	0	0	0	0
11/10/2012	0	0	0	0
11/11/2012	0	0	0	0
11/12/2012	0	0	0	0
11/13/2012	0.44	0.62	0.5	0.66
11/14/2012	0	0	0	0
11/15/2012	0	0	0	0
11/16/2012	0	0	0	0
11/17/2012	0	0	0	0
11/18/2012	0	0	0	0
11/19/2012	0	0	0	0
11/20/2012	0	0	0	0
11/21/2012	0	0	0	0
11/22/2012	0	0	0	0
11/23/2012	0	0	0	0
11/24/2012	0	0	0	0
11/25/2012	0	0	0	0
11/26/2012	0	0	0	0
11/27/2012	0.04	0.05	0.06	0.06
11/28/2012	0	0	0	0
11/29/2012	0	0	0	0
11/30/2012	0	0.06	0.02	0
TOTAL	0.48	0.75	0.61	0.75



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

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

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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**

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/28/12	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/28/12	*			
5	Poplar Point Pumping Station	004	12/04/12	*			
6	Chicago Street and Railroad Ave, SE	005	12/03/12	*			
7	W Street and Railroad Ave, SE	005	12/03/12	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	12/03/12	*			
11	"O" Street Pumping Station	011(a)	12/11/12	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/11/12	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/28/12	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/11/12	*			
15	South Capitol and E Streets	010	12/11/12	*			
15a	Half and L Streets, SE	010	12/11/12	*			
15b	South Capitol and I Streets	010	12/11/12	*			
15c	South Capitol and I Streets	010	12/11/12	*			
16	North of Main Sewage Pumping Station	012	12/11/12	*			
17	4 th and N Streets, SE, Both Extended	013	12/26/12	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	12/26/12	*			
18	6 th and M Streets, SE	014	12/13/12	*			
19	9 th and M Streets, SE	015	12/26/12	*			
19a	9 th and M Streets, SE	015	12/26/12				Contractor at work
20	12 th and M Streets, SE	016	12/26/12	*			
20a	12 th and M Streets, SE	016	12/26/12	*			
21	14 th and M Streets, SE	017	12/26/12	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/26/12	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/26/12	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/26/12	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/26/12	*			
22e	14 th Street and Kentucky Ave, SE	018	12/26/12	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
23	Independence Ave, 21 st Street, SE, Extended	019	12/28/12	*			
24a	East Capitol St, west of RFK stadium	019	12/28/12	*			
28	21 st and Constitution Ave, NW	020	12/26/12	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/26/12	*			
30	17 th and D Streets, NW	020	12/26/12	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/26/12	*			
33	10 th and F Streets, NW	020	12/26/12	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/13/12	*			
34a	23 rd Street near C Street, NW	020	12/13/12	*			
35	Northeast of Roosevelt Bridge, NW	021	12/13/12	*			
36	27 th and I Streets, NW	022	12/17/12	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/17/12	*			
36b	19 th and L Streets, NW	022, 034	12/31/12	*			
36d	17 th and L Streets, NW	022, 034	12/31/12	*			
36g	18 th and M Streets, NW	022, 034	12/31/12	*			
36h	18 th and M Streets, NW	022, 034	12/31/12	*			
37	27 th and Eye Streets, NW	022	12/17/12	*			
38	29 th and K Streets, NW	024	12/17/12	*			
38a	30 th Street, south of K Street, NW	024	12/17/12	*			
39a	30 th and K Streets, NW	024	12/17/12	*			
39b	30 th and K Streets, NW	024	12/17/12	*			
41b	31 st and K Streets, NW	025	12/17/12	*			
41c	31 st and K Streets, NW	025	12/17/12	*			
42	Wisconsin Ave and K Street, NW	026	12/31/12	*			
43	Potomac and Water Streets, NW	027	12/31/12	*			
43a	Potomac and Water Streets, NW	027	12/31/12	*			
44	Water Street, west of Potomac St, NW	027	12/31/12	*			
45	36 th and M Streets, NW	028	12/07/12	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/07/12	*			
47	38 th Street and Reservoir Road, NW	029	12/07/12	*			
47a	37 th and T Streets, NW	029	12/07/12	*			
47b	37 th and T Streets, NW	029	12/07/12	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47c	38 th and W Streets, NW	029	12/07/12	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	12/31/12	*			
51	N Street Extended, west of 25 th Street, NW	033	12/31/12	*			
52	22 nd Street between M and N Streets, NW	034	12/13/12	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/13/12	*			
53	22 nd and M Streets, NW	022, 034	12/28/12	*			
53a	22 nd and M Streets, NW	022, 034	12/28/12	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	12/28/12	*			
53c	L and 22 nd Streets, NW	022	12/28/12	*			
54	23 rd and O Streets, NW	034	12/31/12	*			
55	22 nd Street, south of Q Street, NW	035	12/31/12	*			
55a	22 nd Street, south of Q Street, NW	035	12/31/12	*			
56	23 rd and Massachusetts Ave, NW	036	12/31/12	*			
57	23 rd Street, south of Q Street, NW	036	12/31/12	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A ¹				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/06/12	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/03/12	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/03/12	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/12/12	*			
63	Harvard Street and Rock Creek Parkway, NW	042	12/12/12	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/12/12	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/12/12	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/12/12	*			
66	Adams Mill Road and Lamont Street, NW	045	12/12/12	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	12/12/12	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/12/12	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/12/12	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/12/12	*			
70i	5 th and Quackenbos Streets, NW	049	12/03/12	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	12/07/12	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/31/12	*			

<i>Structure Number</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		
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/31/12	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/31/12	*			
74	Q Street, west of Rock Creek, NW	053	N/A ¹				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/28/12	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	12/28/12	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	12/28/12	*			
78	28th Street Extended, west of Rock Creek, NW	057	12/28/12	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	12/31/12	*			
84a	26 th and P Streets, NW	060	12/31/12	*			

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
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.

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	12/04/12	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/04/12	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	12/04/12	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/04/12	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/04/12	*			*			*		
011	Main Sewage Pumping Station, SE	12/04/12	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/04/12	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/04/12	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	12/04/12	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	12/04/12	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/04/12	*			*			*		
016	12th and O Streets, SE	12/04/12	*		*		*		*		
017	M and Water Street, SE	12/04/12	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	12/04/12	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	12/04/12	*			*			*		
020	Rock Creek Parkway and Independence, NW	12/27/12	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/27/12	*			*			*		
022	Rock Creek Parkway and G St., NW	12/27/12	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	12/27/12	*		*		*		*		
025	South of 31st and K Streets, NW	12/27/12	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	12/27/12	*		*		*		*		
027	33 rd and Water Sts., NW	12/27/12	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/27/12	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	12/27/12	*		*		*		*		

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	
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									
032	26th and M Street, NW.	12/31/12	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/31/12	*		*			*	*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/31/12	*		*			*	*		
035	P St. Bridge and Rock Creek Parkway	12/31/12	*		*			*	*		
036	22nd Street, South of Q Street NW.	12/27/12	*		*			*	*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A ¹			*			*			
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/06/12	*		*			*	*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/03/12	*		*			*	*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/03/12	*		*			*	*		
041	Beach Dr. and Ontario Pl., NW	12/06/12	*		*			*	*		
042	Harvard St. and Beach Dr NW.	12/06/12	*		*			*	*		
043	Upstream of Harvard St. and Beach Dr NW.	12/06/12	*		*			*	*		
044	Kenyon Street and Beach Dr., NW.	12/06/12	*		*			*	*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/12/12	*		*			*	*		
046	Piney Branch Parkway and Park Road, NW.	12/12/12	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/12/12	*		*			*	*		
048	South of Piney Branch Parkway and 17 th St.	12/12/12	*		*			*	*		
049	North of Piney Branch Parkway and 17 th St.	12/12/12	*		*			*	*		
050	Rock Creek Parkway and L St., NW	12/07/12	*		*			*	*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	12/27/12	*		*			*	*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	12/27/12	*		*			*	*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	12/27/12	*		*			*	*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	12/27/12	*		*			*	*		
057	28th Street and Rock Creek Parkway, NW	12/27/12	*		*			*	*		

<i>NPDES Outfall</i>	<i>Location</i>	<i>Date Inspected</i>	<i>Outfall Condition</i>		<i>Tide Gate Present?</i>		<i>Tide Gate Condition</i>		<i>CSO Sign</i>		<i>Notes, Work Needed or Performed</i>
			<i>OK</i>	<i>Needs Work</i>	<i>Yes</i>	<i>No</i>	<i>OK</i>	<i>Needs Work</i>	<i>OK</i>	<i>Needs Work</i>	
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	12/27/12	*		*		*		*		

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	December 1-31	Pump being rehabbed	March 2013
				#2 Screen	December 1-31	Screen being rehabbed	March 2013
Eastside	31	2	4	#2 Screen	December 1-31	Screen being rehabbed	March 2013
				#2 Pump	December 26-31	Pump being rehabbed	January 2013
Poplar Point	31	2	3	#1 Screen	December 1-31	Screen being rehabbed	March 2013
Potomac	31	4	5	#2 Sanitary Pump	December 1-31	Pump being rehabbed	February 2013
				#4 Screen	December 1-25	Screen being rehabbed	Restored 12/26/2012
				#3 Screen	December 27-31	Screen being rehabbed	January 2013
				#1 Screen	December 9-31	Screen being rehabbed	February 2013

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	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
O St	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/26/2012	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	12/26/2012	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	1,503.17	48.49	N/A	N/A	N/A
O St	153.60	4.95	12/26	46.60	Normal
Eastside	273.81	8.83	N/A	N/A	N/A
Poplar Point	677.34	21.85	N/A	N/A	N/A
Potomac	3,272.70	105.57	N/A	N/A	N/A
Rock Creek	137.50	4.44	N/A	N/A	N/A
Upper Anacostia	152.71	4.93	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>
12/26/12	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>
12/25/12	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 Vactor 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>
12/9/2012	4	21.4	21.4	0.0	24.0
12/21/2012	9.5	41.8	8.7	33.1	104.0
12/26/2012	3.5	21.5	2.9	18.6	30.0
12/26/2012	8	14.6	14.6	0.0	24.0
12/27/2012	4	1.9	1.9	0.0	4.0

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>
12/21	Yes	5	2	Mix Chamber	0.2	Mix Chamber	<10
				Anacostia River ¹	0.0	Anacostia River ¹	5800
12/26	Yes	5	2	Mix Chamber	0.2	Mix Chamber	32,000
				Anacostia River ¹	0.0	Anacostia River ¹	57,000

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>
12/21	58.5	0.00	0.55	3.16	3.71	0.51	32.6
12/26	64.0	0.00	0.09	1.75	1.84	0.44	39.6

2.5 Inflatable Dams

DC WATER 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	12/20/2012	No	N/A	N/A	N/A
14 - West	12/20/2012	No	N/A	N/A	N/A
15	12/20/2012	No	N/A	N/A	N/A
15A	12/20/2012	No	N/A	N/A	N/A
16 - East	12/20/2012	No	N/A	N/A	N/A
16 - West	12/20/2012	No	N/A	N/A	N/A
24 - North	12/20/2012	No	N/A	N/A	N/A
24 - Middle	12/20/2012	No	N/A	N/A	N/A
24 - South	12/20/2012	No	N/A	N/A	N/A
34	12/20/2012	No	N/A	N/A	N/A
35	12/20/2012	No	N/A	N/A	N/A
52	12/20/2012	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	12/20 12/26	15 mins 77 mins
15A	12/20 12/26	28 mins 113 mins
16 (E & W)	12/3 12/26	2 mins 1 mins
24	12/21 12/26 12/27	2 mins 30 mins 2 mins
34	12/26	1 min
35	12/3 12/13 12/20 12/21 12/26	2 mins 10 mins 32 mins 58 mins 79 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 (1) occurrence of Dry Weather Overflow in December 2012.

Location	29 th and K Streets, NW.
Cause	A sewer maintenance crew from the District of Columbia Water and Sewer Authority during a monthly scheduled inspection observed sanitary waste overflowing diversion structure #038. Upon further investigation, the crew found that a buildup of grease and other debris had clogged the 18 inch connecting pipe from the West Rock Creek Diversion Sewer to the Upper Potomac Interceptor and obstructed flow through the structure causing it to back up and overflow in the Potomac River at the outfall (CSO #24).
Date/ Time Discovered	December 17, 2012 at 12:00 PM
Action Taken	The DC Water crew cleared the line and flushed it with a degreasing chemical.
Date/Time Discharge Ceased	December 17, 2012 at 9:30 PM
Estimated Volume	30,000 gallons
Did Overflow Reach Receiving water?	Yes. Potomac River.
Action taken to prevent reoccurrence	DC Water will identify the food service establishments that contributed to the grease problem and take corrective action to prevent a recurrence at this location. A follow up inspection performed on December 19 th , 2012 confirmed that the structure was functioning properly.

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	734	2768	2495	18	0	2786	2495
2	4,714	4,112	2,316	2316	2316	5801	4845	602	550	6403	5395
3	3,555	461	-	0	0	5621	768	56	0	5677	768
4	2,782	1,985	159	159	159	4595	3150	53	16	4648	3166
5	2,167	1,035	1,035	1035	1035	4167	2486	6	6	4173	2492
6	1,783	1,594	1,594	1594	1594	3749	3054	345	275	4094	3329
7	2,313	-	-	0	0	3148	0	577	0	3725	0
8	1,278	116	116	116	116	2293	692	721	248	3014	940
DC WATER Subtotal	20,183	10,871	5,954	5,954	5,954	32,142	17,490	2,378	1,095	34,520	18,585
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				100%	100%					>100%	>100%

3.2 BMP Demonstration Projects

DC WATER 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	12/4/2012	Netting platform has dropped under the water level.	Boom and flotation replacement	Contractor removed unit for repair 11/19/2012	None collected
Bar Rack CSO 040	12/3/2012	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	12/6/2012	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 October 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 DC WATER, 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>	19
<i>Days not Operating</i>	9
<i>Reason not Operating</i>	High winds, low tide, and PM/repair service.
<i># Skimmer in Fleet</i>	3 skimmers
<i># Skimmers Out of Service</i>	2
<i>Dates</i>	B28: 12/1 - 12/31 B29: 12/1 - 12/31 B32: 12/1 -12/3 B32: 12/1 -12/3, 12/13 - 12/14, 12/20 - 12/27
<i>Reason</i>	B28: leaking hydraulic fluid from starboard front ram. B29: hydraulic leaks in both propulsion pods. B32: stern rams stuck and hydraulic flow sensor alarm sounding.
<i>Plan to Restore to Service</i>	B28: ETR unknown. B29: ETR unknown. B32: Repaired 12/28.
<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 DC WATER’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	12/25	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	12/25	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
12/1/2012	0	0	0	0
12/2/2012	0	0	0	0
12/3/2012	0	0	0	0
12/4/2012	0	0	0.01	0
12/5/2012	0	0	0	0
12/6/2012	0	0	0	0
12/7/2012	0.01	0.02	0.03	0.02
12/8/2012	0	0	0	0
12/9/2012	0.21	0.21	0.11	0.18
12/10/2012	0.01	0.01	0.02	0.01
12/11/2012	0.06	0.07	0.04	0.07
12/12/2012	0	0	0	0
12/13/2012	0	0	0	0
12/14/2012	0	0	0	0
12/15/2012	0	0	0	0
12/16/2012	0.09	0.09	0.1	0.09
12/17/2012	0.05	0.1	0.03	0.07
12/18/2012	0.01	0.01	0.01	0
12/19/2012	0	0	0	0
12/20/2012	0.01	0.56	0.42	0.72
12/21/2012	0.21	0.27	0.21	0.38
12/22/2012	0	0	0	0
12/23/2012	0	0	0	0
12/24/2012	0.01	0.14	0.13	0.14
12/25/2012	0	0	0	0
12/26/2012	1.22	1.45	1.29	1.42
12/27/2012	0.02	0.02	0.02	0.02
12/28/2012	0	0	0	0
12/29/2012	0.17	0.16	0.16	0.15
12/30/2012	0	0	0	0.18
12/31/2012	0	0	0	0.02
TOTAL	2.08	3.11	2.58	3.47

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: October, November, & December 2012
SCENARIO: Q4Y2012, 1-15-2013

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	6	4.11	44.00	7.33	26.25	2.00
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 th Street and Ridge Place, SE	4	8.09	25.00	6.25	21.50	0.25
009	2nd Street, 300 feet North of N Place, SE	3	2.54	23.25	7.75	19.00	0.75
010	O Street Sewage Pumping Station, SE (pumped Overflow)	4	113.96	25.25	6.31	20.25	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)	2	38.37	14.50	7.25	14.00	0.50
013	4th and N Streets, SE	6	5.16	28.00	4.67	20.50	0.25
014	6th and M Streets, SE	4	7.92	30.75	7.69	23.25	0.25
015	9th and M Streets, SE	5	0.23	15.75	3.15	12.25	0.25
016	12th and M Streets, SE	3	3.52	18.00	6.00	15.50	0.25
017	14th and M Streets, SE	6	12.83	43.50	7.25	27.25	0.75
018	Barney Circle and Pennsylvania Ave, SE	5	7.40	29.75	5.95	22.50	0.25
019	Northeast Boundary - Swirl Effluent	6	282.48	85.50	14.25	32.50	4.50
019	Northeast Bound. - Swirl Bypass	3	34.26	5.25	1.75	4.75	0.25
	SUBTOTAL		520.87				
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)	4	19.17	22.25	5.56	17.75	0.50
021	Northeast of Roosevelt Bridge, NW	5	149.96	26.00	5.20	17.25	0.50
022	27th and K Streets, NW	6	2.44	30.00	5.00	16.50	0.25
024	30th and K Streets, NW	5	19.91	30.50	6.10	22.50	0.25
025	31st & K St NW	3	0.18	6.00	2.00	5.25	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	9	11.84	63.75	7.08	28.00	0.25
028	36th and M Streets, NW	47	9.68	151.75	3.23	31.25	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	16	15.89	29.50	1.84	9.50	0.25
	SUBTOTAL		229.08				
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	0.61	1.00	1.00	1.00	1.00
034	23rd and O Streets, SW	1	0.00	0.25	0.25	0.25	0.25
035	22nd Street south of Q Street, NW	1	4.21	0.50	0.50	0.50	0.50
036	22nd Street South of Q Street, NW	24	1.549	61.50	2.56	14.75	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	0.05	0.25	0.25	0.25	0.25
040	Biltmore Street extended east of Rock Creek, NW	1	0.40	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: October, November, & December 2012
SCENARIO: Q4Y2012, 1-15-2013

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	0.43	0.75	0.75	0.75	0.75
043	Adams Mill Road South of Irving Street, NW	5	3.12	2.25	0.45	1.00	0.25
044	Kenyon Street and Adams Mill Road, NW	1	0.10	0.75	0.75	0.75	0.75
045	Adams Mill Road and Lamont Street, NW	6	0.33	2.75	0.46	0.75	0.25
046	Park Road south of Piney Branch Parkway, NW	3	0.09	1.00	0.33	0.50	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	2	0.29	1.00	0.50	0.75	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	3	0.70	1.75	0.58	0.75	0.50
049	Piney Branch and LamontStreet, NW	33	102.332	108.00	3.27	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	15	12.29	71.75	4.78	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		126.49				
	TOTAL		876.45				

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