

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

SECOND QUARTER, 2013

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: April 2013**

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*Monthly Operations Report for Combined Sewer System
Month: April 2013*

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**

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	4-19-13	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	4-19-13	*			
5	Poplar Point Pumping Station	004	4-11-13	*			
6	Chicago Street and Railroad Ave, SE	005	4-15-13	*			
7	W Street and Railroad Ave, SE	005	4-15-13	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	4-08-13	*			
11	"O" Street Pumping Station	011(a)	4-11-13	*			
12	Storm Pump Discharge at Main Pumping Station	011	4-11-13	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	4-26-13	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	4-11-13	*			
15	South Capitol and E Streets	010	4-11-13	*			
15a	Half and L Streets, SE	010	4-11-13	*			
15b	South Capitol and I Streets	010	4-05-13	*			
15c	South Capitol and I Streets	010	4-05-13	*			
16	North of Main Sewage Pumping Station	012	4-09-13	*			
17	4 th and N Streets, SE, Both Extended	013	4-22-13	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	4-26-13	*			
18	6 th and M Streets, SE	014	4-03-13	*			
19	9 th and M Streets, SE	015	4-05-13	*			
19a	9 th and M Streets, SE	015	4-05-13				Contractor at work
20	12 th and M Streets, SE	016	4-05-13	*			
20a	12 th and M Streets, SE	016	4-05-13	*			
21	14 th and M Streets, SE	017	4-22-13	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	4-29-13	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	4-29-13	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	4-29-13	*			
22d	Kentucky Ave and Potomac Street, SE	018	4-22-13	*			
22e	14 th Street and Kentucky Ave, SE	018	4-22-13	*			

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	4-05-13	*			
24a	East Capitol St, west of RFK stadium	019	4-05-13	*			
28	21 st and Constitution Ave, NW	020	4-19-13	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	4-19-13	*			
30	17 th and D Streets, NW	020	4-08-13	*			
31	15 th Street and Pennsylvania Ave, NW	020	4-08-13	*			
33	10 th and F Streets, NW	020	4-08-13	*			
34	23 rd Street, north of Constitution Ave, NW	020	4-11-13	*			
34a	23 rd Street near C Street, NW	020	4-19-13	*			
35	Northeast of Roosevelt Bridge, NW	021	4-29-13	*			
36	27 th and I Streets, NW	022	4-08-13	*			
36a	New Hampshire Ave and Eye Street, NW	022	4-08-13	*			
36b	19 th and L Streets, NW	022, 034	4-19-13	*			
36d	17 th and L Streets, NW	022, 034	4-19-13	*			
36g	18 th and M Streets, NW	022, 034	4-19-13	*			
36h	18 th and M Streets, NW	022, 034	4-19-13	*			
37	27 th and Eye Streets, NW	022	4-08-13	*			
38	29 th and K Streets, NW	024	4-08-13	*			
38a	30 th Street, south of K Street, NW	024	4-08-13	*			
39a	30 th and K Streets, NW	024	4-08-13	*			
39b	30 th and K Streets, NW	024	4-08-13	*			
41b	31 st and K Streets, NW	025	4-08-13	*			
41c	31 st and K Streets, NW	025	4-08-13	*			
42	Wisconsin Ave and K Street, NW	026	4-19-13	*			
43	Potomac and Water Streets, NW	027	4-19-13	*			
43a	Potomac and Water Streets, NW	027	4-19-13	*			
44	Water Street, west of Potomac St, NW	027	4-19-13	*			
45	36 th and M Streets, NW	028	4-02-13	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	4-02-13	*			
47	38 th Street and Reservoir Road, NW	029	4-02-13	*			
47a	37 th and T Streets, NW	029	4-02-13	*			
47b	37 th and T Streets, NW	029	4-02-13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47c	38 th and W Streets, NW	029	4-02-13	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	4-26-13	*			
51	N Street Extended, west of 25 th Street, NW	033	4-26-13	*			
52	22 nd Street between M and N Streets, NW	034	4-11-13	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	4-11-13	*			
53	22 nd and M Streets, NW	022, 034	4-30-13	*			
53a	22 nd and M Streets, NW	022, 034	4-30-13	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	4-26-13	*			
53c	L and 22 nd Streets, NW	022	4-26-13	*			
54	23 rd and O Streets, NW	034	4-22-13	*			
55	22 nd Street, south of Q Street, NW	035	4-22-13	*			
55a	22 nd Street, south of Q Street, NW	035	4-22-13	*			
56	23 rd and Massachusetts Ave, NW	036	4-22-13	*			
57	23 rd Street, south of Q Street, NW	036	4-22-13	*			
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	4-29-13	*			
60	Connecticut Ave, east of Rock Creek, NW	039	4-15-13	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	4-15-13	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	4-26-13	*			
63	Harvard Street and Rock Creek Parkway, NW	042	4-26-13	*			
64	Adams Mill Road, south of Irving Street, NW	043	4-26-13	*			
65	Kenyon Street and Adams Mill Road, NW	044	4-26-13	*			
65a	Kenyon Street and Adams Mill Road, NW	044	4-26-13	*			
66	Adams Mill Road and Lamont Street, NW	045	4-26-13	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	4-26-13	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	4-26-13	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	4-26-13	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	4-26-13	*			
70i	5 th and Quackenbos Streets, NW	049	4-02-13	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	4-02-13	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	4-22-13	*			

<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	4-22-13	*			
73	O Street Extended and Rock Creek Parkway, NW	052	4-22-13	*			
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	4-30-13	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	4-30-13	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	4-30-13	*			
78	28th Street Extended, west of Rock Creek, NW	057	4-30-13	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	4-22-13	*			
84a	26 th and P Streets, NW	060	4-22-13	*			

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	4-19-13	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	4-04-13	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	4-04-13	*		*		*		*		
009	O St. Sewage Pumping Station, SE	4-23-13	*		*		*		*		
010	O St. Sewage Pumping Station, SE	4-23-13	*			*			*		
011	Main Sewage Pumping Station, SE	4-23-13	*			*			*		
011(a)	Main Sewage Pumping Station, SE	4-23-13	*		*		*		*		
012	Main Sewage Pumping Station, SE	4-23-13	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	4-18-13	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	4-18-13	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	4-18-13	*			*			*		
016	12th and O Streets, SE	4-04-13	*		*		*		*		
017	M and Water Street, SE	4-04-13	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	4-04-13	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	4-30-13	*			*			*		
020	Rock Creek Parkway and Independence, NW	4-30-13	*		*		*		*		
021	Rock Creek Parkway and C St., NW	4-30-13	*			*			*		
022	Rock Creek Parkway and G St., NW	4-30-13	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	4-30-13	*		*		*		*		
025	South of 31st and K Streets, NW	4-30-13	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	4-30-13	*		*		*		*		
027	33 rd and Water Sts., NW	4-30-13	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	4-30-13	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	4-30-13	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									

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	
032	26th and M Street, NW.	4-26-13	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	4-26-13	*		*			*	*		
034	Just west of St. Francis Jr. High and north of N St., NW	4-22-13	*		*			*	*		
035	P St. Bridge and Rock Creek Parkway	4-22-13	*		*			*	*		
036	22nd Street, South of Q Street NW.	4-30-13	*		*			*	*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A ¹			*			*			
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	4-29-13	*		*			*	*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	4-15-13	*		*			*	*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	4-15-13	*		*			*	*		
041	Beach Dr. and Ontario Pl., NW	4-25-13	*		*			*	*		
042	Harvard St. and Beach Dr NW.	4-25-13	*		*			*	*		
043	Upstream of Harvard St. and Beach Dr NW.	4-25-13	*		*			*	*		
044	Kenyon Street and Beach Dr., NW.	4-25-13	*		*			*	*		
045	North of Beach Dr. and Walbridge Pl, NW.	4-25-13	*		*			*	*		
046	Piney Branch Parkway and Park Road, NW.	4-26-13	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	4-26-13	*		*			*	*		
048	South of Piney Branch Parkway and 17 th St.	4-26-13	*		*			*	*		
049	North of Piney Branch Parkway and 17 th St.	4-26-13	*		*			*	*		
050	Rock Creek Parkway and L St., NW	4-02-13	*		*			*	*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	4-04-13	*		*			*	*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	4-04-13	*		*			*	*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	4-30-13	*		*			*	*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	4-30-13	*		*			*	*		
057	28th Street and Rock Creek Parkway, NW	4-30-13	*		*			*	*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	4-30-13	*		*			*	*		

Notes:

1. Outfall 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 Service¹</i>
Main	30	4	10	None			
Eastside	30	2	4	#2 Screen	April 1-30	Screen being rehabbed	September 2013
Poplar Point	30	2	3	#1 Screen #3 Screen	April 1-30 April 1-30	Screen being rehabbed Screen being rehabbed	September 2013 September 2013
Potomac	30	4	5	#1 Screen	April 12-22	Screen being rehabbed	Restored April 23, 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	4/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
O St	4/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	4/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	4/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	4/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	4/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	4/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	4/26/2013	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	1,622.50	54.08	N/A	N/A	N/A
O St	148.70	4.96	N/A	N/A	Normal
Eastside	332.44	11.08	N/A	N/A	N/A
Poplar Point	650.52	21.68	N/A	N/A	N/A
Potomac	3,542.23	118.07	N/A	N/A	N/A
Rock Creek	215.00	7.17	N/A	N/A	N/A
Upper Anacostia	152.92	5.10	N/A	N/A	N/A
Earle Place	0.15	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.

2-6 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>
4/26/2013	1, 2 & 3	1, 2 & 3	#1 Screen	April 1-30	Screen being rehabbed	May 2013

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

<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed¹</i>	<i>Comments</i>
4/25/13	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)¹</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)¹</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
4/11/2013	6.25	20.2	20.2	0	160
4/19/2013	5	7.2	7.2	0	160
4/20/2013	7	5.2	5.2	0	160

Note:

1. The influent flow meter is not reading. Flow volumes are approximated.

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	Yes	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							

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	4/20/2013	No	N/A	N/A	N/A
14 - West	4/20/2013	No	N/A	N/A	N/A
15	4/20/2013	No	N/A	N/A	N/A
15A	4/20/2013	No	N/A	N/A	N/A
16 - East	4/20/2013	No	N/A	N/A	N/A
16 - West	4/20/2013	No	N/A	N/A	N/A
24 - North	4/20/2013	No	N/A	N/A	N/A
24 - Middle	4/20/2013	No	N/A	N/A	N/A
24 - South	4/20/2013	No	N/A	N/A	N/A
34	4/20/2013	No	N/A	N/A	N/A
35	4/20/2013	No	N/A	N/A	N/A
52	4/20/2013	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	4/19 4/20	16 mins 10 mins
15A	4/12 4/19 4/20	2 mins 2hrs, 13 mins 1 hr, 36 mins
16 (E & W)	None	N/A
24	4/12 4/19	6 mins 37 mins
34	None	N/A
35	4/12 4/19	15 mins 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 April 2013.

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	154	0	189	160	299	169	488	329
2	4,714	4,112	2,316	187	0	184	183	172	150	356	333
3	3,555	461	-	0	0	1111	115	2464	319	3575	434
4	2,782	1,985	159	147	0	3147	1804	45	32	3192	1836
5	2,167	1,035	1,035	256	0	137	110	271	146	408	256
6	1,783	1,594	1,594	623	0	664	596	27	27	691	623
7	2,313	-	-	0	0	2057	0	125	0	2182	0
8	1,278	116	116	116	0	683	273	23	23	706	296
DC WATER Subtotal	20,183	10,871	5,954	1,483	0	8,172	3,241	3,426	866	11,598	4,107
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				25%	0%					57%	38%

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	4/30/2013	Good	Change nets	Changed nets	150 pounds.
Bar Rack CSO 040	4/15/2013	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	4/25/2013	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>	23
<i>Days not Operating</i>	8
<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 skimmers
<i>Dates</i>	B28: 4/3-4/4 and 4/8- 4/30, B29: 4/1-4/30, B32: 4/3-4/4 and 4/30
<i>Reason</i>	B28: Wing bearing removed, loading screen jammed. B29: Port and starboard propulsion pods leaking hydraulic oil. B32: Alarm sounding, loose lubricating protection tube on wing.
<i>Plan to Restore to Service</i>	B28: Parts on hand. ETR mid May 2013. B29: At Gates Marina for repair. ETR unknown. B32: Troubleshooting. ETR mid May 2013.
<i>Volume Material Collected</i>	50 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	4/9	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	4/9	X			

4.2 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
4/1/2013	0	0	0	0
4/2/2013	0.02	0	0	0
4/3/2013	0	0	0	0
4/4/2013	0	0.15	0.1	0.17
4/5/2013	0	0.12	0.11	0.13
4/6/2013	0	0	0	0
4/7/2013	0	0	0	0
4/8/2013	0	0	0	0
4/9/2013	0	0	0	0
4/10/2013	0	0	0	0
4/11/2013	0	0	0	0
4/12/2013	0.47	0.45	0.75	0.55
4/13/2013	0	0	0	0
4/14/2013	0	0	0	0
4/15/2013	0	0	0	0
4/16/2013	0	0	0	0
4/17/2013	0.01	0	0	0.02
4/18/2013	0.07	0.06	0.1	0.03
4/19/2013	0.74	0.86	1.12	0.81
4/20/2013	0.02	0.01	0.02	0
4/21/2013	0	0	0	0
4/22/2013	0	0	0	0
4/23/2013	0	0	0	0
4/24/2013	0	0	0	0
4/25/2013	0	0.01	0.01	0
4/26/2013	0	0	0	0
4/27/2013	0	0	0	0
4/28/2013	0	0	0	0
4/29/2013	0.08	0.2	0.18	0.13
4/30/2013	0.03	0.03	0.03	0.01
TOTAL	1.44	1.89	2.42	1.85



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

**Monthly Operations Report
For
Combined Sewer System
Month: May 2013**

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: May 2013

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>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		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/31/13	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/31/13	*			
5	Poplar Point Pumping Station	004	05/02/13	*			
6	Chicago Street and Railroad Ave, SE	005	05/17/13	*			
7	W Street and Railroad Ave, SE	005	05/17/13	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	05/17/13	*			
11	"O" Street Pumping Station	011(a)	05/02/13	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/02/13	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	05/31/12	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	05/02/13	*			
15	South Capitol and E Streets	010	05/02/13	*			
15a	Half and L Streets, SE	010	05/02/13	*			
15b	South Capitol and I Streets	010	05/09/13	*			
15c	South Capitol and I Streets	010	05/09/13	*			
16	North of Main Sewage Pumping Station	012	05/02/13	*			
17	4 th and N Streets, SE, Both Extended	013	05/09/13	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	05/02/13	*			
18	6 th and M Streets, SE	014	05/02/13	*			
19	9 th and M Streets, SE	015	05/15/13	*			
19a	9 th and M Streets, SE	015	05/15/13				Contractor at work
20	12 th and M Streets, SE	016	05/10/13	*			
20a	12 th and M Streets, SE	016	05/10/13	*			
21	14 th and M Streets, SE	017	05/15/13	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	05/15/13	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	05/15/13	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/15/13	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/15/13	*			
22e	14 th Street and Kentucky Ave, SE	018	05/15/13	*			

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	05/10/13	*			
24a	East Capitol St, west of RFK stadium	019	05/10/13	*			
28	21 st and Constitution Ave, NW	020	05/16/13	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	05/16/13	*			
30	17 th and D Streets, NW	020	05/16/13	*			
31	15 th Street and Pennsylvania Ave, NW	020	05/16/13	*			
33	10 th and F Streets, NW	020	05/16/13	*			
34	23 rd Street, north of Constitution Ave, NW	020	05/30/13	*			
34a	23 rd Street near C Street, NW	020	05/15/13	*			
35	Northeast of Roosevelt Bridge, NW	021	05/30/13	*			
36	27 th and I Streets, NW	022	05/17/13	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/17/13	*			
36b	19 th and L Streets, NW	022, 034	05/20/13	*			
36d	17 th and L Streets, NW	022, 034	05/20/13	*			
36g	18 th and M Streets, NW	022, 034	05/20/13	*			
36h	18 th and M Streets, NW	022, 034	05/20/13	*			
37	27 th and Eye Streets, NW	022	05/17/13	*			
38	29 th and K Streets, NW	024	05/08/13	*			
38a	30 th Street, south of K Street, NW	024	05/20/13	*			
39a	30 th and K Streets, NW	024	05/20/13	*			
39b	30 th and K Streets, NW	024	05/20/13	*			
41b	31 st and K Streets, NW	025	05/20/13	*			
41c	31 st and K Streets, NW	025	05/20/13	*			
42	Wisconsin Ave and K Street, NW	026	05/17/13	*			
43	Potomac and Water Streets, NW	027	05/17/13	*			
43a	Potomac and Water Streets, NW	027	05/17/13	*			
44	Water Street, west of Potomac St, NW	027	05/17/13	*			
45	36 th and M Streets, NW	028	05/08/13	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/08/13	*			
47	38 th Street and Reservoir Road, NW	029	05/08/13	*			
47a	37 th and T Streets, NW	029	05/08/13	*			
47b	37 th and T Streets, NW	029	05/08/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47c	38 th and W Streets, NW	029	05/08/13	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	05/09/13	*			
51	N Street Extended, west of 25 th Street, NW	033	05/09/13	*			
52	22 nd Street between M and N Streets, NW	034	05/30/13	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	05/31/13	*			
53	22 nd and M Streets, NW	022, 034	05/31/13	*			
53a	22 nd and M Streets, NW	022, 034	05/31/13	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	05/17/13	*			
53c	L and 22 nd Streets, NW	022	05/17/13	*			
54	23 rd and O Streets, NW	034	05/28/13	*			
55	22 nd Street, south of Q Street, NW	035	05/28/13	*			
55a	22 nd Street, south of Q Street, NW	035	05/28/13	*			
56	23 rd and Massachusetts Ave, NW	036	05/28/13	*			
57	23 rd Street, south of Q Street, NW	036	05/28/13	*			
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	05/20/13	*			
60	Connecticut Ave, east of Rock Creek, NW	039	05/09/13	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/09/13	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/21/13	*			
63	Harvard Street and Rock Creek Parkway, NW	042	05/21/13	*			
64	Adams Mill Road, south of Irving Street, NW	043	05/21/13	*			
65	Kenyon Street and Adams Mill Road, NW	044	05/21/13	*			
65a	Kenyon Street and Adams Mill Road, NW	044	05/21/13	*			
66	Adams Mill Road and Lamont Street, NW	045	05/21/13	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	05/22/13	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	05/22/13	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	05/22/13	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	05/22/13	*			
70i	5 th and Quackenbos Streets, NW	049	05/17/13	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	05/17/13	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	05/28/13	*			

<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	05/28/13	*			
73	O Street Extended and Rock Creek Parkway, NW	052	05/28/13	*			
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	05/10/13	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	05/10/13	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	05/10/13	*			
78	28th Street Extended, west of Rock Creek, NW	057	05/10/13	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	05/28/13	*			
84a	26 th and P Streets, NW	060	05/28/13	*			

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	05/31/13	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	05/09/13	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	05/09/13	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/16/13	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/16/13	*			*			*		
011	Main Sewage Pumping Station, SE	05/16/13	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/16/13	*		*		*		*		
012	Main Sewage Pumping Station, SE	05/16/13	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	05/09/13	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	05/14/13	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/03/13	*			*			*		
016	12th and O Streets, SE	05/03/13	*		*		*		*		
017	M and Water Street, SE	05/03/13	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	05/03/13	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	05/03/13	*			*			*		
020	Rock Creek Parkway and Independence, NW	05/09/13	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/09/13	*			*			*		
022	Rock Creek Parkway and G St., NW	05/16/13	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	05/16/13	*		*		*		*		
025	South of 31st and K Streets, NW	05/16/13	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	05/16/13	*		*		*		*		
027	33 rd and Water Sts., NW	05/16/13	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/16/13	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	05/16/13	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									

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	
032	26th and M Street, NW.	05/09/13	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/09/13	*		*			*	*		
034	Just west of St. Francis Jr. High and north of N St., NW	05/28/13	*		*			*	*		
035	P St. Bridge and Rock Creek Parkway	05/28/13	*		*			*	*		
036	22nd Street, South of Q Street NW.	05/31/13	*		*			*	*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A ¹			*			*			
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/20/13	*		*			*	*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/09/13	*		*			*	*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/09/13	*		*			*	*		
041	Beach Dr. and Ontario Pl., NW	05/30/13	*		*			*	*		
042	Harvard St. and Beach Dr NW.	05/30/13	*		*			*	*		
043	Upstream of Harvard St. and Beach Dr NW.	05/30/13	*		*			*	*		
044	Kenyon Street and Beach Dr., NW.	05/30/13	*		*			*	*		
045	North of Beach Dr. and Walbridge Pl, NW.	05/30/13	*		*			*	*		
046	Piney Branch Parkway and Park Road, NW.	05/22/13	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	05/22/13	*		*			*	*		
048	South of Piney Branch Parkway and 17 th St.	05/22/13	*		*			*	*		
049	North of Piney Branch Parkway and 17 th St.	05/14/13	*		*			*	*		
050	Rock Creek Parkway and L St., NW	05/17/13	*		*			*	*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	05/30/13	*		*			*	*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	05/30/13	*		*			*	*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	05/10/13	*		*			*	*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	05/10/13	*		*			*	*		
057	28th Street and Rock Creek Parkway, NW	05/10/13	*		*			*	*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	05/31/13	*		*			*	*		

Notes:

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

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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 Service¹</i>
Main	31	4	10	#1 Pump	May 20-31	Screen being rehabbed	September 2013
Eastside	31	2	4	#2 Screen	May 1-31	Screen being rehabbed	September 2013
				#2 Sanitary Pump	May 29-31	Pump being rehabbed	September 2013
Poplar Point	31	2	3	#3 Sanitary Pump	May 31	Pump being rehabbed	June 2013
				#1 Screen	May 1-31	Screen being rehabbed	September 2013
				#3 Screen	May 1-31	Screen being rehabbed	September 2013
Potomac	31	4	5	#2 Sanitary Pump	May 21-31	Pump being rehabbed	September 2013
				#1 Screen	May 7-17	Screen being rehabbed	Restored May 18, 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	5/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
O St	5/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	5/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	5/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	5/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	5/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	5/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	5/26/2013	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	1,790.20	57.75	N/A	N/A	N/A
O St	151.70	4.89	5/28	2.10	Normal
Eastside	316.81	10.22	N/A	N/A	N/A
Poplar Point	680.85	21.96	N/A	N/A	N/A
Potomac	3,478.90	112.22	N/A	N/A	N/A
Rock Creek	154.17	4.97	N/A	N/A	N/A
Upper Anacostia	152.92	4.93	N/A	N/A	N/A
Earle Place	0.15	0.00	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.

2-6 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>
5/26/2013	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>
5/25/13	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)¹</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)¹</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
5/7/2013	5.5	23.9	23.9	0	84
5/10/2013	5	2.1	2.1	0	120
5/10/2013	5	2.1	2.1	0	8
5/11/2013	4	2.8	2.8	0	136

Note:

1. The influent flow meter is not reading. Flow volumes are approximated.

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	Yes	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							

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	5/20/2013	No	N/A	N/A	N/A
14 - West	5/20/2013	No	N/A	N/A	N/A
15	5/20/2013	No	N/A	N/A	N/A
15A	5/20/2013	No	N/A	N/A	N/A
16 - East	5/20/2013	No	N/A	N/A	N/A
16 - West	5/20/2013	No	N/A	N/A	N/A
24 - North	5/20/2013	No	N/A	N/A	N/A
24 - Middle	5/20/2013	No	N/A	N/A	N/A
24 - South	5/20/2013	No	N/A	N/A	N/A
34	5/20/2013	No	N/A	N/A	N/A
35	5/20/2013	No	N/A	N/A	N/A
52	5/20/2013	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	None	N/A
15A	5/11	2 mins
16 (E & W)	None	N/A
24	5/7	5 mins
	5/11	6 mins
	5/23	10 mins
34	None	N/A
35	5/10	4 mins
	5/11	16 mins
	5/23	18 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 during May 2013.

Location	Poplar Point Pumping Station, CSO 04
Cause	The General Foreman of the Sewer Pumping Branch reported an overflow in the screening of Poplar Point Pumping Station. The overflow resulted from a complete pump stoppage. At the time, the maintenance staff was attempting to restart the station pumps. The pumps stoppage was caused by a water main break in the 36" line approximately one mile away. This caused a loss of pressure to the sealed water system of the station pumps.
Date/ Time Discovered	May 22, 2013 at approximately 2:50 pm.
Action Taken	The DC Water maintenance staff restored partial operation to the pumps to stop the overflow by pumping in short cycles. The station was fully restored to service that evening when the water main was repaired.
Date/Time Discharge Ceased	May 22, 2013 at approximately 3:20 pm.
Estimated Volume	Approximately 230,000 gallons.
Did Overflow Reach Receiving water?	Yes. Anacostia River
Action taken to prevent reoccurrence	DC Water will install a water storage tank and pumps to ensure sufficient pressure is maintained in sealed water system. This tank can be supplied from a secondary source when the city water is out of service.

Sanitary Sewer Overflows:

Location	Pope Branch Creek, SE
Cause	A DC Water crew met representatives of Anacostia Watershed Association to investigate a reported sanitary sewer leak into Pope Branch Creek. The crew placed dye in a 10 inch sanitary sewer near 3328 Pope Street, SE and shortly thereafter observed the dye in the creek. The crew was unable to start the repair work immediately because of high flow in the Creek and the unstable river bank.
Date/ Time Discovered	May 7, 2013 at approximately 10:15 am.
Action Taken	DC Water directed our contractor, Corinthian Construction to set up a bypass pump operation stopping all leaks into the Creek
Date/Time Discharge Ceased	May 9, 2013 at approximately 11:30 am.
Estimated Volume	Approximately 4,500 gallons.
Did Overflow Reach Receiving water?	Yes. Pope Branch Creek.
Action taken to prevent reoccurrence	Our CCTV crew then inspected the pipe in the immediate area and found several sections of defective pipe. We are in the process of replacing all these sections. DC Water department of engineering and technical service has begun evaluating more than 2800 feet of the 12 inch sewer that spans the creek bed to determine the most effective method of rehabilitation and protection for the pipe.

Location	Near 2159 Dummore Lane, NW
Cause	DC Water dispatched a sewer maintenance crew to investigate a service call regarding an overflowing sewer manhole in Glover Archbold Park on a walking trail near 2159 Dunmore Lane, NW. The crew found a manhole blocked by a buildup of grease and debris that was overflowing into a nearby unnamed stream that flows into the Potomac River.
Date/ Time Discovered	May 27, 2013 at approximately 7:00 pm.
Action Taken	The crew was able to remove the grease and clear the sewer. They then flushed the line with a degreasing chemical.
Date/Time Discharge Ceased	May 27, 2013 at approximately 10:00 pm.
Estimated Volume	Approximately 1,500 gallons.
Did Overflow Reach Receiving water?	Yes. An unnamed stream that flows into the Potomac River.
Action taken to prevent reoccurrence	Out CCTV crew then inspected the 10 inch sewer to assess it condition and determine whether additional steps are 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	455	488	329	1136	1119	1624	1448
2	4,714	4,112	2,316	634	48	356	333	877	794	1233	1127
3	3,555	461	-	0	0	3575	434	610	199	4185	633
4	2,782	1,985	159	159	28	3192	1836	724	506	3916	2342
5	2,167	1,035	1,035	520	56	408	256	295	264	703	520
6	1,783	1,594	1,594	623	110	691	623	0	0	691	623
7	2,313	-	-	0	0	2182	0	0	0	2182	0
8	1,278	116	116	116	56	706	296	6	6	712	302
DC WATER Subtotal	20,183	10,871	5,954	2,786	697	11,598	4,107	3,648	2888	15246	6995
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				47%	12%					75%	64%

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	5/31/2013	Good	None	Changed nets	150 pounds (est)
Bar Rack CSO 040	5/9/2013	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	5/30/2013	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>	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 skimmers
<i>Dates</i>	B28: 5/1 - 5/31 B29: 5/1 - 5/31 B32: 5/1-5/3 & 5/16-5/22
<i>Reason</i>	B28: Loading screen jammed. B29: Port and starboard propulsion pods leaking hydraulic oil. B32: Detached tube on bow, wash down pump not working.
<i>Plan to Restore to Service</i>	B28: Parts on hand ETR unknown. B29: At Gates Marina for repair. ETR unknown. B32: Parts on hand. ETR mid June 2013.
<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 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	5/17	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	5/17	X			

4.2 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
5/1/2013	0	0	0	0
5/2/2013	0	0	0	0
5/3/2013	0	0	0	0
5/4/2013	0	0	0	0
5/5/2013	0	0	0	0
5/6/2013	0	0	0.01	0
5/7/2013	0.22	0.76	0.44	0.57
5/8/2013	0	0.09	0.06	0
5/9/2013	0.03	0.04	0.01	0.05
5/10/2013	0.03	0.27	0.4	0.32
5/11/2013	0.21	0.26	0.07	0.37
5/12/2013	0.01	0	0	0
5/13/2013	0	0	0	0
5/14/2013	0	0	0	0
5/15/2013	0	0	0	0
5/16/2013	0	0	0	0
5/17/2013	0	0	0	0
5/18/2013	0.01	0.02	0.05	0
5/19/2013	0.01	0.02	0.02	0
5/20/2013	0	0	0	0
5/21/2013	0	0	0	0
5/22/2013	0	0	0.01	0
5/23/2013	0.34	0.4	0.24	0.4
5/24/2013	0	0.01	0.01	0.01
5/25/2013	0	0	0	0
5/26/2013	0	0	0	0
5/27/2013	0	0	0	0
5/28/2013	0.01	0.08	0.43	0.17
5/29/2013	0	0	0	0
5/30/2013	0	0	0	0
5/31/2013	0	0	0	0
TOTAL	0.87	1.95	1.75	1.89



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

**Monthly Operations Report
For
Combined Sewer System
Month: June 2013**

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: June 2013

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**

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	06/28/13	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/28/13	*			
5	Poplar Point Pumping Station	004	06/28/13	*			
6	Chicago Street and Railroad Ave, SE	005	06/13/13	*			
7	W Street and Railroad Ave, SE	005	06/13/13	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	N/A ¹				
9	13 th Street and Ridge Place, SE	007	06/13/13	*			
11	"O" Street Pumping Station	011(a)	06/20/13	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/20/13	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	06/28/13	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	06/28/13	*			
15	South Capitol and E Streets	010	06/20/13	*			
15a	Half and L Streets, SE	010	06/20/13	*			
15b	South Capitol and I Streets	010	06/03/13	*			
15c	South Capitol and I Streets	010	06/03/13	*			
16	North of Main Sewage Pumping Station	012	06/20/13	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Under construction
17a	K Street between 6 th Street and 7 th Street, SE	013	06/24/13	*			
18	6 th and M Streets, SE	014	06/04/13	*			
19	9 th and M Streets, SE	015	N/A				Under construction
19a	9 th and M Streets, SE	015	N/A				Under construction
20	12 th and M Streets, SE	016	06/28/13	*			
20a	12 th and M Streets, SE	016	06/28/13	*			
21	14 th and M Streets, SE	017	06/28/13	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	06/26/13	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	06/26/13	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	06/26/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
22d	Kentucky Ave and Potomac Street, SE	018	06/17/13	*			
22e	14 th Street and Kentucky Ave, SE	018	06/17/13	*			
23	Independence Ave, 21 st Street, SE, Extended	019	06/23/13	*			
24a	East Capitol St, west of RFK stadium	019	06/23/13	*			
28	21 st and Constitution Ave, NW	020	06/21/13	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	06/21/13	*			
30	17 th and D Streets, NW	020	06/18/13	*			
31	15 th Street and Pennsylvania Ave, NW	020	06/18/13	*			
33	10 th and F Streets, NW	020	06/18/13	*			
34	23 rd Street, north of Constitution Ave, NW	020	06/18/13	*			
34a	23 rd Street near C Street, NW	020	06/18/13	*			
35	Northeast of Roosevelt Bridge, NW	021	06/21/13	*			
36	27 th and I Streets, NW	022	06/05/13	*			
36a	New Hampshire Ave and Eye Street, NW	022	06/05/13	*			
36b	19 th and L Streets, NW	022, 034	06/03/13	*			
36d	17 th and L Streets, NW	022, 034	06/03/13	*			
36g	18 th and M Streets, NW	022, 034	06/03/13	*			
36h	18 th and M Streets, NW	022, 034	06/03/13	*			
37	27 th and Eye Streets, NW	022	06/05/13	*			
38	29 th and K Streets, NW	024	06/13/13	*			
38a	30 th Street, south of K Street, NW	024	06/13/13	*			
39a	30 th and K Streets, NW	024	06/13/13	*			
39b	30 th and K Streets, NW	024	06/13/13	*			
41b	31 st and K Streets, NW	025	06/13/13	*			
41c	31 st and K Streets, NW	025	06/13/13	*			
42	Wisconsin Ave and K Street, NW	026	06/21/13	*			
43	Potomac and Water Streets, NW	027	06/21/13	*			
43a	Potomac and Water Streets, NW	027	06/21/13	*			
44	Water Street, west of Potomac St, NW	027	06/21/13	*			
45	36 th and M Streets, NW	028	06/04/13	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	06/04/13	*			
47	38 th Street and Reservoir Road, NW	029	06/04/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
47a	37 th and T Streets, NW	029	06/04/13	*			
47b	37 th and T Streets, NW	029	06/04/13	*			
47c	38 th and W Streets, NW	029	06/04/13	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A ¹				
50	26 and M Streets, NW	032	06/26/13	*			
51	N Street Extended, west of 25 th Street, NW	033	06/26/13	*			
52	22 nd Street between M and N Streets, NW	034	06/28/13	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	06/28/13	*			
53	22 nd and M Streets, NW	022, 034	06/28/13	*			
53a	22 nd and M Streets, NW	022, 034	06/28/13	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	06/28/13	*			
53c	L and 22 nd Streets, NW	022	06/28/13	*			
54	23 rd and O Streets, NW	034	06/21/13	*			
55	22 nd Street, south of Q Street, NW	035	06/21/13	*			
55a	22 nd Street, south of Q Street, NW	035	06/21/13	*			
56	23 rd and Massachusetts Ave, NW	036	06/21/13	*			
57	23 rd Street, south of Q Street, NW	036	06/21/13	*			
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	06/28/13	*			
60	Connecticut Ave, east of Rock Creek, NW	039	06/13/13	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	06/13/13	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	06/19/13	*			
63	Harvard Street and Rock Creek Parkway, NW	042	06/19/13	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/19/13	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/19/13	*			
65a	Kenyon Street and Adams Mill Road, NW	044	06/19/13	*			
66	Adams Mill Road and Lamont Street, NW	045	06/19/13	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	06/19/13	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	06/19/13	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/19/13	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	06/18/13	*			
70i	5 th and Quackenbos Streets, NW	049	06/05/13	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
71	28 th Street, west of Rock Creek Parkway, NW	050	06/05/13	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/21/13	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/21/13	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/21/13	*			
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	06/24/13	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	06/24/13	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	06/24/13	*			
78	28th Street Extended, west of Rock Creek, NW	057	06/24/13	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	N/A ¹				
84	26 th and P Streets, NW	060	06/21/13	*			
84a	26 th and P Streets, NW	060	06/21/13	*			

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	06/28/13	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/28/13	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	N/A ¹									
007	Between 11 th St. and Anacostia Bridges, SE	06/28/13	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/27/13	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/27/13	*			*			*		
011	Main Sewage Pumping Station, SE	06/27/13	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/27/13	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/27/13	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	UNC									Under construction
014	Navy Yard, aligned with 6 th St., SE	06/28/13	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/28/13	*			*			*		
016	12th and O Streets, SE	06/27/13	*		*		*		*		
017	M and Water Street, SE	06/27/13	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	06/27/13	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	06/28/13	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/28/13	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/28/13	*			*			*		
022	Rock Creek Parkway and G St., NW	06/28/13	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	06/28/13	*		*		*		*		
025	South of 31st and K Streets, NW	06/28/13	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	06/28/13	*		*		*		*		
027	33 rd and Water Sts., NW	06/28/13	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	06/28/13	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	06/28/13	*		*		*		*		
031	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A ¹									

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	
032	26th and M Street, NW.	06/21/13	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	06/21/13	*		*			*	*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/21/13	*		*			*	*		
035	P St. Bridge and Rock Creek Parkway	06/21/13	*		*			*	*		
036	22nd Street, South of Q Street NW.	06/21/13	*		*			*	*		
037	Waterside Dr. and Rock Creek Parkway ¹	N/A ¹			*			*			
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/28/13	*		*			*	*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/13/13	*		*			*	*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/13/13	*		*			*	*		
041	Beach Dr. and Ontario Pl., NW	06/27/13	*		*			*	*		
042	Harvard St. and Beach Dr NW.	06/27/13	*		*			*	*		
043	Upstream of Harvard St. and Beach Dr NW.	06/27/13	*		*			*	*		
044	Kenyon Street and Beach Dr., NW.	06/27/13	*		*			*	*		
045	North of Beach Dr. and Walbridge Pl, NW.	06/27/13	*		*			*	*		
046	Piney Branch Parkway and Park Road, NW.	06/19/13	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	06/19/13	*		*			*	*		
048	South of Piney Branch Parkway and 17 th St.	06/19/13	*		*			*	*		
049	North of Piney Branch Parkway and 17 th St.	06/19/13	*		*			*	*		
050	Rock Creek Parkway and L St., NW	06/05/13	*		*			*	*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	06/28/13	*		*			*	*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	06/28/13	*		*			*	*		
053	Q St. Bridge and Rock Creek Parkway, NW. ¹	N/A ¹									
054	Massachusetts Ave & Rock Creek Parkway, NW.	06/24/13	*		*			*	*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	06/24/13	*		*			*	*		
057	28th Street and Rock Creek Parkway, NW	06/24/13	*		*			*	*		
058	Connecticut Ave & Rock Creek Parkway, NW. ¹	N/A ¹									
060	North of P St. Bridge & Rock Creek Pkwy, NW	06/27/13	*		*			*	*		

Notes:

1. Outfall 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 Service¹</i>
Main	30	4	10	#1 Sanitary Pump	June 1-30	Pump being rehabbed	September 2013
Eastside	30	2	4	#2 Screen	June 1-30	Screen being rehabbed	September 2013
				#2 Sanitary Pump	June 1-30	Pump being rehabbed	September 2013
Poplar Point	30	2	3	#3 Sanitary Pump	June 1-25	Pump being rehabbed	Restored June 25, 2013
				#1 Screen	June 1-30	Screen being rehabbed	September 2013
				#3 Screen	June 1-30	Screen being rehabbed	September 2013
Potomac	30	4	5	#2 Sanitary Pump	June 1-30	Pump being rehabbed	September 2013
				#1 Screen	June 3-30	Screen being rehabbed	July 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	6/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
O St	6/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	6/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	6/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	6/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	6/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	6/26/2013	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	6/26/2013	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	1,855.80	61.86	N/A	N/A	N/A
O St	151.80	5.06	6/2	41.2	Normal
			6/7	96.2	Normal
			6/10	143.2	Normal
			6/13	7.1	Normal
Eastside	418.81	13.96	N/A	N/A	N/A
Poplar Point	668.88	22.30	N/A	N/A	N/A
Potomac	3,712.60	123.75	N/A	N/A	N/A
Rock Creek	179.17	5.97	N/A	N/A	N/A
Upper Anacostia	149.79	4.99	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.

2-6 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>
6/26/2013	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>
6/25/13	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)¹</i>	<i>Total Foul Sewer Volume (mg)</i>	<i>Total Effluent Volume (mg)¹</i>	<i>Approx. Screenings Volume (Cu. ft)</i>
6/2/2013	5.17	8.4	8.4	0	104
6/3/2013	5.5	1.7	1.7	0	15
6/6/2013	2.5	3.3	3.3	0	10
6/7/2013	6.5	14.1	14.1	0	100
6/7/2013	4.67	10.4	2.3	8.1	100
6/7/2013	8	4.1	4.1	0	15
6/10/2013	6.17	7.6	7.6	0	20
6/10/2013	8.5	15.3	15.3	0	108
6/11/2013	7.5	3.0	3.0	0	16
6/13/2013	6.25	2.7	2.7	0	20
6/18/2013	2.5	1.6	1.6	0	12
6/23/2013	4.5	6.5	6.5	0	36
6/26/2013	2.5	2.4	2.4	0	12
6/28/2013	7.85	13.6	13.6	0	60
6/29/2013	2	0.7	0.7	0	80
6/30/2013	4	2.0	2.0	0	15

Note:

1. The influent flow meter is not reading. Flow volumes are approximated.

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>
6/7	Yes	5	2	Mix Chamber	0.1	Mix Chamber	580,000
				Anacostia River ¹	0.0	Anacostia River ¹	340,000

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>
6/7/13	42.0	0.00	0.82	3.05	3.87	1.61	20.5

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	6/20/2013	No	N/A	N/A	N/A
14 - West	6/20/2013	No	N/A	N/A	N/A
15	6/20/2013	No	N/A	N/A	N/A
15A	6/20/2013	No	N/A	N/A	N/A
16 - East	6/20/2013	No	N/A	N/A	N/A
16 - West	6/20/2013	No	N/A	N/A	N/A
24 - North	6/20/2013	No	N/A	N/A	N/A
24 - Middle	6/20/2013	No	N/A	N/A	N/A
24 - South	6/20/2013	No	N/A	N/A	N/A
34	6/20/2013	No	N/A	N/A	N/A
35	6/20/2013	No	N/A	N/A	N/A
52	6/20/2013	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	6/7 6/10 6/23 6/28	5 hrs, 33 mins 66 mins 3 mins 115 mins
15A	6/23 6/28	2 hrs, 2 mins 2 hrs, 35 mins
16 (E & W)	6/7 6/10 6/23 6/28	52 mins 2 hrs, 46 mins 2 mins 60 mins
24	6/7 6/10 6/23 6/28	42 mins 42 mins 8 mins 42 mins
34	6/7 6/10 6/28	28 mins 55 mins 37 mins
35	6/7 6/10 6/23 6/28	86 mins 110 mins 31 mins 60 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 June 2013.

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	624	1624	1448	168	165	1792	1613
2	4,714	4,112	2,316	884	106	1233	1127	478	443	1711	1570
3	3,555	461	-	0	0	4185	633	147	0	4332	633
4	2,782	1,985	159	159	159	3916	2342	464	315	4380	2657
5	2,167	1,035	1,035	1035	554	703	520	1928	1069	2631	1589
6	1,783	1,594	1,594	681	11	691	623	96	58	787	681
7	2,313	-	-	0	0	2182	0	65	0	2247	0
8	1,278	116	116	116	58	712	302	55	55	767	357
DC WATER Subtotal	20,183	10,871	5,954	3,609	1,512	15,246	6,995	3,401	2,105	18,647	9,100
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871									
% Cleaned/Inspected to Date				61%	25%					92%	84%

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	6/18/2013	Good	Replace nets. Reattach grating.	Replaced nets. Reattached grating.	400 pounds
Bar Rack CSO 040	6/13/2013	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	6/27/2013	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>	7
<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 Skimmers
<i>Dates</i>	B28: 6/1 - 6/30 B29: 6/1 - 6/30 B32: 6/26
<i>Reason</i>	B28: Loading screen jammed. B29: Port and starboard propulsion pods leaking hydraulic oil. B32: Engine sputtering.
<i>Plan to Restore to Service</i>	B28: Send to Gates Marina for repairs within 30 days. B29: Receive from Gates Marina within 30 days. B32: Returned to service 6/27.
<i>Volume Material Collected</i>	60 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	6/25	X			
Bar Racks at Main Storm Pumps (CSO 011)	CP	6/25	X			

4.2 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
6/1/2013	0	0	0	0
6/2/2013	0.01	0.7	0.28	0.84
6/3/2013	0.29	0.21	0.27	0.28
6/4/2013	0	0	0	0
6/5/2013	0	0	0	0
6/6/2013	0.56	0.39	0.6	0.75
6/7/2013	1.68	1.94	1.33	1.78
6/8/2013	0	0	0.01	0
6/9/2013	-	0	0	0
6/10/2013	-	1.88	2.25	2.57
6/11/2013	0	0.57	0	0
6/12/2013	0	0	0	0
6/13/2013	0.05	0.16	0.15	0.22
6/14/2013	0	0.01	0.02	0.02
6/15/2013	-	0	0	0
6/16/2013	-	0	0	0
6/17/2013	-	0	0.42	0
6/18/2013	-	0.12	0.18	0.15
6/19/2013	-	0	0	0
6/20/2013	-	0	0	0
6/21/2013	-	0	0	0
6/22/2013	-	0	0	0
6/23/2013	-	0.49	0.47	0.87
6/24/2013	-	0	0.01	0
6/25/2013	-	0.01	0.26	0.06
6/26/2013	-	0.19	0	0.2
6/27/2013	-	0.08	0.16	0.01
6/28/2013	-	1.36	1.32	1.13
6/29/2013	-	0	0	0
6/30/2013	-	0.23	0.12	0.23
TOTAL	2.59	8.34	7.85	9.11

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results

Period: April, May, and June 2013

SCENARIO: Q2Y2013, produced July 12, 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	19	4.91	58.25	3.07	14.50	0.25
006	Good Hope Road, West of Nichols Ave., SE	separated					
007	13 th Street and Ridge Place, SE	10	4.43	17.25	1.73	3.75	0.50
009	2nd Street, 300 feet North of N Place, SE	11	2.83	21.25	1.93	4.75	0.25
010	O Street Sewage Pumping Station, SE (pumped Overflow)	6	82.08	18.50	3.08	6.75	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)	3	11.38	5.00	1.67	2.50	0.75
013	4th and N Streets, SE	13	3.89	30.50	2.35	8.50	0.25
014	6th and M Streets, SE	10	6.86	30.00	3.00	7.50	0.50
015	9th and M Streets, SE	11	1.05	13.50	1.23	2.75	0.25
016	12th and M Streets, SE	9	4.14	15.00	1.67	4.00	0.25
017	14th and M Streets, SE	11	12.50	49.00	4.45	11.75	0.75
018	Barney Circle and Pennsylvania Ave, SE	10	6.92	25.75	2.58	6.50	0.25
019	Northeast Boundary - Swirl Effluent	10	245.24	80.25	8.03	19.75	1.50
019	Northeast Bound. - Swirl Bypass	6	36.38	5.75	0.96	2.00	0.25
	SUBTOTAL		422.62				
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	11.75	17.50	2.50	5.25	0.25
021	Northeast of Roosevelt Bridge, NW	9	127.31	25.50	2.83	7.00	0.50
022	27th and K Streets, NW	12	2.70	28.50	2.38	7.00	0.25
024	30th and K Streets, NW	9	13.43	38.25	4.25	14.25	0.25
025	31st & K St NW	8	0.33	6.25	0.78	1.75	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	28	40.69	182.75	6.53	35.25	0.25
028	36th and M Streets, NW	23	10.23	71.25	3.10	17.25	0.25
029	Canal Road 1000 feet east of Rock Creek, NW	9	12.33	21.75	2.42	9.50	0.25
	SUBTOTAL		218.77				
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	0	0.00	0.00	0.00	0.00	0.00
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	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	13	1.049	37.00	2.85	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	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00

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Combined Sewer System Model Results
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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	0	0.00	0.00	0.00	0.00	0.00
043	Adams Mill Road South of Irving Street, NW	1	0.11	0.50	0.50	0.50	0.50
044	Kenyon Street and Adams Mill Road, NW	0	0.00	0.00	0.00	0.00	0.00
045	Adams Mill Road and Lamont Street, NW	0	0.00	0.00	0.00	0.00	0.00
046	Park Road south of Piney Branch Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
047	Ingleside Terrace extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
048	Mt. Pleasant Street extended and Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	14	65.125	54.75	3.91	17.50	0.50
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	9	15.46	43.50	4.83	19.50	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		81.74				
	TOTAL		723.12				

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