QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH QUARTER, 2010

Prepared By:

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



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

Monthly Operations Report For Combined Sewer System Month: October 2010

Prepared By:

D.C. 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: October 2010

Table of Contents

1. INTRODUCTION

2. OPERATION AND MAINTENACE

- 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 Visual Survey of Main & O
- 5.2 Rainfall Data

1. INTRODUCTION

The District of Columbia Water and Sewer Authority (WASA or Authority) 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 Authority'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 MAINTENACE

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 2-1Regulator Structures

				(Condition		
a 1-		Associated NPDES			Needs Work		
Struct No.	Location	Outfall	Inspected			Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/04/10	*			
5	Poplar Point Pumping Station	004	10/20/10	*			
6	Chicago Street and Railroad Ave, SE	005	10/12/10	*			
7	W Street and Railroad Ave, SE	005	10/12/10	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	10/12/10	*			
9	13 th Street and Ridge Place, SE	007	10/13/10	*			
11	"O" Street Pumping Station	011(a)	10/20/10	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/20/10	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/04/10	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/20/10	*			
15	South Capitol and E Streets	010	10/20/10	*			
15a	Half and L Streets, SE	010	10/20/10	*			
15b	South Capitol and I Streets	010	10/17/10	*			
15c	South Capitol and I Streets	010	10/17/10	*			
16	North of Main Sewage Pumping Station	012	10/20/10	*			
17	4 th and N Streets, SE, Both Extended	013	10/07/10	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	10/28/10	*			
18	6 th and M Streets, SE	014	10/12/10	*			
19	9 th and M Streets, SE	015	10/12/10	*			
19a	9 th and M Streets, SE	015	10/12/10	*			
20	12 th and M Streets, SE	016	10/06/10	*			
20a	12 th and M Streets, SE	016	10/06/10	*			
21	14 th and M Streets, SE	017	10/13/10	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/13/10	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/13/10	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/13/10	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/13/10	*			
22e	14 th Street and Kentucky Ave, SE	018	10/13/10	*			
23	Independence Ave, 21 st Street, SE, Extended	019	10/21/10	*			

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report October 2010.doc

Report for October, 2010

				(Condition		
C N		Associated NPDES	Date		Needs Work		
Struct No.	Location	Outfall	Inspected	Good *		Work Needed	Work performed
24a	East Capitol St, west of RFK stadium	019	10/06/10	*			
28	21 st and Constitution Ave, NW	020	10/24/10	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/24/10				
30	17 th and D Streets, NW	020	10/18/10	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/18/10	*			
33	10 th and F Streets, NW	020	10/12/10	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/20/10	*			
34a	23 rd Street near C Street, NW	020	10/24/10	*			
35	Northeast of Roosevelt Bridge, NW	021	10/20/10	*			
36	27 th and I Streets, NW	022	10/18/10	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/21/10	*			
36b	19 th and L Streets, NW	022, 034	10/14/10	*			
36d	17 th and L Streets, NW	022, 034	10/14/10	*			
36g	18 th and M Streets, NW	022, 034	10/14/10	*			
36h	18 th and M Streets, NW	022, 034	10/14/10	*			
37	27 th and Eye Streets, NW	022	10/21/10	*			
38	29 th and K Streets, NW	024	10/04/10	*			
38a	30 th Street, south of K Street, NW	024	10/04/10	*			
39a	30 th and K Streets, NW	024	10/04/10	*			
39b	30 th and K Streets, NW	024	10/04/10	*			
41b	31 st and K Streets, NW	025	10/21/10	*			
41c	31 st and K Streets, NW	025	10/21/10	*			
42	Wisconsin Ave and K Street, NW	026	10/24/10	*			
43	Potomac and Water Streets, NW	027	10/21/10	*			
43a	Potomac and Water Streets, NW	027	10/21/10	*			
44	Water Street, west of Potomac St, NW	027	10/21/10	*			
45	36 th and M Streets, NW	028	10/21/10	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/20/10	*			
47	38 th Street and Reservoir Road, NW	029	10/20/10	*			
47a	37 th and T Streets, NW	029	10/20/10	*			
47b	37 th and T Streets, NW	029	10/20/10	*			
47c	38 th and W Streets, NW	029	10/20/10	*			

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report October 2010.doc

				(Condition		
	,	Associated NPDES	Date	a .	Needs Work		
Struct No.		Outfall	Inspected	Good *		Work Needed	Work performed
	Pennsylvania Ave, east side of Rock Creek, NW	031	10/18/10				
	26 and M Streets, NW	032	10/18/10	*			
	N Street Extended, west of 25 th Street, NW	033	10/18/10	*			
	22 nd Street between M and N Streets, NW	034	10/18/10	*			
	N Street between 22 nd and 23 rd Streets, NW	034	10/18/10	*			
53	22 nd and M Streets, NW	022, 034	10/26/10	*			
	22 nd and M Streets, NW	022, 034	10/26/10	*			
	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	10/26/10	*			
	L and 22 nd Streets, NW	022	10/25/10	*			
	23 rd and O Streets, NW	034	10/26/10	*			
55	22 nd Street, south of Q Street, NW	035	10/26/10	*			
55a	22 nd Street, south of Q Street, NW	035	10/26/10	*			
56	23 rd and Massachusetts Ave, NW	036	10/26/10	*			
57	23 rd Street, south of Q Street, NW	036	10/26/10	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	10/27/10	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/27/10	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/12/10	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/12/10	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/12/10	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/12/10	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/14/10	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/12/10	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/14/10	*			
66	Adams Mill Road and Lamont Street, NW	045	10/12/10	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	10/12/10	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/14/10	*			
	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/14/10	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/14/10	*			
70i	5 th and Quackenbos Streets, NW	049	10/06/10	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/21/10	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/26/10	*			

			_	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/26/10	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/26/10	*			
74	Q Street, west of Rock Creek, NW	053	10/26/10	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/27/10	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	10/27/10	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	10/06/10	*			
78	28th Street Extended, west of Rock Creek, NW	057	10/27/10	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	10/04/10	*			
84	26 th and P Streets, NW	060	10/26/10	*			
84a	26 th and P Streets, NW	060	10/26/10	*			

1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.

2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

3. Structure No. 4 has been modified as part of the Blue Plains influent sewer Rehabilitation Project. It is no longer a regular structure discharging to a cso and has been deleted from this table.

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.

		14	1	- Outian	1	Gate	Tide G				[]
					Gale sent?	Condii			CSO Sign		
NPDES		Date		Needs	170		Condi	Needs		ese sign	
Outfall	Location	Inspected	OK	Work	Yes	No	OK		ОК	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and	1									
003	Chanute, SW	10/04/10	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
005	Ave., SE	10/06/10	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	10/06/10	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	10/06/10	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/28/10	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/28/10	*			*			*		
011	Main Sewage Pumping Station, SE	10/28/10	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/28/10	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/21/10	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	10/21/10	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	10/21/10	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/28/10	*			*			*		
016	12th and O Streets, SE	10/12/10	*		*		*		*		
017	M and Water Street, SE	10/12/10	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	10/12/10	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	10/06/10	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/07/10	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/07/10	*			*			*		
022	Rock Creek Parkway and G St., NW 10/07		*		*		*		*		
024	South of 30 th and K Streets, NW	NW 10/27/10 * * *		*	*						
025	South of 31st and K Streets, NW	W 10/27/10 * * * *			*						
026	Wisconsin Avenue and Water Street, NW	10/27/10	*		*		*		*		
027	33 rd and Water Sts., NW	10/27/10	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/27/10	*			*			*		

Table 2 - Outfalls and Tide Gates

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report October 2010.doc

				Outfall		Gate	Tide G				
			Ce	ondition	Pres	sent?	Condit	Condition		CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
029	Adjacent to C&O Canal, aligned with 38 th St. NW	10/27/10	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	10/18/10	*			*			*		
032	26th and M Street, NW.	10/18/10	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/18/10	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/28/10	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/28/10	*		*		*		*		
036	22nd Street, South of Q Street NW.	10/27/10	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	10/27/10	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/27/10	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/12/10	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/12/10	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/12/10	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/13/10	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/13/10	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/13/10	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/13/10	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/14/10	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/14/10	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	10/14/10	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/14/10	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/21/10	*		*		*		*		

				Outfall ondition		Gate sent?	Tide G Condit			CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		10/06/10									
	Between P and Penna. Ave Bridges, aligned with O Street, NW.	10/06/10	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	10/27/10	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	10/27/10	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	10/27/10	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	10/27/10	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	10/04/10	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	10/27/10	*		*		*		*		

1. Outfall is submerged and not visible. CSO is performing acceptably as evidenced by lack of capacity/flooding issues associated with pipe.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service
Main	31	4	10	None			
Eastside	31	2	4	Screen #2	October 1-31	Screen being overhaul	January 2011
Poplar Point	31	2 1	3	Pump 1, 2 & 3 Screens 1 and 2		Pumps need major overhaul. By pass pumping and screening in progress	January 2011
Potomac	31	4	5	Pump # 5	October 1-31	Mechanical seal replacement	January 2011

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report October 2010.doc

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.

i unping Stations – i reventive Maintenance									
		Type of Preventive Maintenance							
Pumping Station	Date Performed	$Performed^{1}$	Comments						
Main	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						
O St	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						
Eastside	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						
Poplar Point	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						
Potomac	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						
Rock Creek	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						
Upper Anacostia	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						
Earle Place	10/25/10	Group A	Add oil, grease bearings and replace packing if needed.						

 Table 2-4

 Pumping Stations – Preventive Maintenance

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

		T uniping Sta	luons – 1 umpa	ge				
	Sanitary	Pumpage	Storm V	Storm Water/CSO Pumped To Anacostia River				
	Total	Daily Average			Screenings Collected			
Pumping Station	Wastewater (mg)	Wastewater (mg)	Date	Volume (mg)	(units)			
Main	1,625.70	52.44	N/A	N/A	N/A			
O St ¹	144.40	4.66	10/14/10	63.80	Normal			
			10/27/10	63.00	Normal			
Eastside	532.61	17.18	N/A	N/A	N/A			
Poplar Point	595.20	19.20	N/A	N/A	N/A			
Potomac	3,746.70	120.86	N/A	N/A	N/A			
Rock Creek	196.67	6.34	N/A	N/A	N/A			
Upper Anacostia	121.00	3.90	N/A	N/A	N/A			
Earle Place	0.28	0.01	N/A	N/A	N/A			
Notes:								

Table 2-5Pumping Stations – Pumpage

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:

		11010100	20 and any string		mspromous und 24	
Date	#		Screens or Swirls			
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
10/19/10	1,2 & 3	1,2 & 3	Swirl #2	10/1/10		10/30/10

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed</i> ¹	Comments
10/19/10	Group A	

I.Group A consists of:Exercise bar screensExercise wash down systemExercise knife gates full travel both directionsCheck depth of grit in grit channel and schedule Vactor truck as requiredChange chart paper on strip chart recorders at the end of each monthThoroughly clean each Swirl tank and channelsIssue work order requests as requiredDrain condensation from air compressCheck all safety equipment

_	Normeast Boundary Swirt Facinity – wet weather Operations													
		Approx. Storm				Approx. Screenings								
		$Duration^{1}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume³</i>								
	Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)								
ſ	10/01/2010	7.30	18.57	18.57	0	1.02(81.6)								
	10/04/2010	8	5.84	5.84	0	0.08(6.4)								
	10/14/2010	11	6.05	4.790	1.26	0.12 (9.6)								
ĺ	10/27/2010	10	18.89	4.72	14.17	0.60 948)								

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

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.

	Chlor/			Residual Chlori	ne Test			
	Dechl	Do	sages	Results		E. Coli Test Results/100ml		
	or							
	Syste						Count	
	т	m NaOCl NaHSO ₃			Conc.		Per	
Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	
10/14/10	Yes	5	2	Mix Chamber	0.1	Mix Chamber	300,000	
10/14/10	Yes	5	2	Anacostia River	0.0	Anacostia River	220,000	
10/27/10	Yes	5 2		Mix Chamber	0.1	Mix Chamber	120,000	
10/27/10	Yes	5	2	Anacostia River	0.0	Anacostia River	310,000	

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

Notes:

1. Mix Chr.: Mixing Chamber

2. River: River Outfall

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

October 2010

			F	Flow Composited Sam	ple Results		
Date	Total suspended solids (mg/L)	Nitrite (NO2-N) mg/L	Nitrate (NO3-N)) mg/L	Total Kjeldahl Nitrogen (mg/L as N)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Carbonaceous Biological Oxygen Demand (mg/L)
10/14/10	106	0.03	0.68	8.66	9.37	1.06	74.7
10/27/10	312	0.00	0.47	5.47	5.94	1.13	52.5

<u>Notes:</u> Effluent samples taken every two hours and flow composited for a maximum of 24 hours per storm.

2.5 Inflatable Dams

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

Inflatable Dam		Was Dam Out of Service			Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	10/20/10	No	N/A	N/A	N/A
14 - West	10/20/10	No	N/A	N/A	N/A
15	10/20/10	No	N/A	N/A	N/A
15A	10/20/10	No	N/A	N/A	N/A
16 - East	10/20/10	No	N/A	N/A	N/A
16 - West	10/20/10	No	N/A	N/A	N/A
24 - North	10/20/10	No	N/A	N/A	N/A
24 - Middle	10/20/10	No	N/A	N/A	N/A
24 - South	10/20/10	No	N/A	N/A	N/A
34	10/20/10	No	N/A	N/A	N/A
35	10/20/10	No	N/A	N/A	N/A
52	10/20/10	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

		ADA Sites - Wet Weather Operations
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	None	N/A
15A	None	N/A
16 (E & W)	None	N/A
24	None	N/A
34	None	N/A
35	None	N/A
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow (hrs)
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
Outfall Sewer Control Gates	Operational Status	Position
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

There was no dry weather overflow during October 2010.

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

Inspections Cleaning											
				Inspe	ections			Clea	ining	i	
		CBs in	CBs in Anacostia	Total CBs Inspected Once this	Total CBs Inspected Twice this	CBs Clea Last N	<i>Month</i>		eaned this		s Cleaned r to Date
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	734	2539	2315	28	20	2567	2335
2	4,714	4,112	2,316	2316	2316	5444	4669	873	643	6317	5312
3	3,555	461	-	0	0	5310	596	21	4	5331	600
4	2,782	1,985	159	159	159	2426	1374	7	7	2433	1381
5	2,167	1,035	1,035	1035	1035	3960	2064	0	0	3960	2064
6	1,783	1,594	1,594	1594	1594	2131	1357	777	642	2908	1999
7	2,313	-	-	0	0	3321	0	1040	0	4361	0
8	1,278	116	116	116	92	232	63	29	29	261	92
WASA Subtotal	20,183	10,871	5,954	5,954	5,930	25,363	12,438	2,775	1,345	28,138	13,783
DDOT (via VMS) Subtotal				0	0	0	0	0	0		
Grand Total	20,183	10,871	5,954	5,954	5,930	25,363	12,438	2,775	1,345	28,138	13,783
% Cleaned/Inspected to Date				100%	99%					>100%	>100%

Table 4-1 Catch Basin Summaries

4.2 BMP Demonstration Projects

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

• Netting system at CSO 018 to Anacostia River

• Bar Rack at CSO 040 and 041 to Rock Creek

Table 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	10/01/10	Good	Minor	Nets changed.	Right Net – 290 lb.
	10/27/10		Maintenance		Left Net – 205lb.
Bar Rack CSO 040	10/12/10	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	10/12/10	Good	None	Routine Cleaning	(1)

Notes:

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

4.3 Anacostia River Floating Debris Removal Program

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	3
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	8/19/10 to present
Reason	B-29 wing damage.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	40 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

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

4.4 CSS Litter Control

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

Status: DC WASA sent correspondence to the Department of Public Works and US National Park Service requesting the identification of a contact person to help with the coordination of each agency's activities.

5. MONITORING

5.1 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

Table 5-1 CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries SOLIDS AND FLOATABLES VISUAL SURVEY FORM

	C	nspec	tor's Initials: JW										
		Overfl Observed Quantity of Quantity of						of					
CSO	Time of Observation	Y	Ν	L	М	Н	L	М	н	L	М	н	REMARKS/OTHER
009													
010													
	12: 25 pm	х		х			x			x			
011	2:20 pm	x		x			x			x			
011a	<u>12: 25 pm</u> 2:20 pm	x X		x X			x X			x X			
012													

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report October 2010.doc

		D	ate: 1		Ins	pector's Initials: CW							
		Ove	rflow	0	bserv	ed	Qu	antity	/ of	Quantity of			
cso	Time of Observa tion	Y	N	L	м	н	L	М	Н	L	М	Н	REMARKS/OTHER
	4 : 45 pm	х		х			х			х			
009													
010	4 · 45 nm	x		x			x			x			
011	4 : 45 pm	х		х			х			х			
•••													
011a	<u>4 · 45 pm</u>	x		x			x			x			
	4 · 45 pm	х		х			х			х			
012	1									1	I		

Note: L= Low, M= Moderate, H= High

		D	Date: 1	0/27/2	2010							Ins	pector's Initials: CW
		Ove	rflow	0	bserv	ed	Qı	antity	/ of	Qua	ntity c	of	
cso	Time of Observa tion	Y	N	L	м	н	L	М	н	L	М	н	REMARKS/OTHER
009	_2 : 45 PM	_X			X			X			X		
010	2 · 45 PM	X			X			X			Х		
011	2 : 45 PM	Х			X			X			X		
011a	_2 · 45 PM	X			Х			X			X		
	2 · 45 PM	Х			X			Х			x		
012													

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2	Rainfall Da	ta (inches)		00
Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
10/1/2010	0.19	0.19	0.33	0.13
10/2/2010	0	0	0	0
10/3/2010	0.3	0.3	0.3	0.3
10/4/2010	0.35	0.35	0.35	0.35
10/5/2010	0	0	0	0
10/6/2010	0	0	0	0
10/7/2010	0	0	0	0
10/8/2010	0	0	0	0
10/9/2010	0	0	0	0
10/10/2010	0	0	0	0
10/11/2010	0	0	0	0
10/12/2010	0	0	0	0
10/13/2010	0	0	0	0
10/14/2010	0.73	0.73	0.73	0.73
10/15/2010	0	0	0	0
10/16/2010	0	0	0	0
10/17/2010	0	0	0	0
10/18/2010	0	0	0	0
10/19/2010	0	0	0	0
10/20/2010	0.02	0.02	0.02	0.02
10/21/2010	0	0	0	0
10/22/2010	0	0	0	0
10/23/2010	0	0	0	0
10/24/2010	0	0	0	0
10/25/2010	0	0	0	0
10/26/2010	0	0	0	0
10/27/2010	1.32	1.32	1.32	1.32
10/28/2010	0	0	0	0
10/29/2010	0	0	0	0
10/30/2010	0	0	0	0
10/31/2010	0	0	0	0
TOTALS	2.91	2.91	3.05	2.85

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report October 2010.doc



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

Monthly Operations Report For Combined Sewer System Month: November 2010

Prepared By:

D.C. 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 2010

Table of Contents

1. INTRODUCTION

2. OPERATION AND MAINTENACE

- 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 Visual Survey of Main & O
- 5.2 Rainfall Data

1. INTRODUCTION

The District of Columbia Water and Sewer Authority (WASA or Authority) 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 Authority'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 MAINTENACE

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.

Tab	le 2-1
Regulator	Structures

			D	(Condition		
G N	T	Associated NPDES		G 1	Needs Work		
Struct No.	Location	Outfall	Inspected	Good *		Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/19/10				
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/19/10	*			
5	Poplar Point Pumping Station	004	11/18/10	*			
6	Chicago Street and Railroad Ave, SE	005	11/03/10	*			
7	W Street and Railroad Ave, SE	005	11/03/10	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	11/03/10	*			
9	13 th Street and Ridge Place, SE	007	11/03/10	*			
11	"O" Street Pumping Station	011(a)	11/18/10	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/18/10	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/03/10	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/18/10	*			
15	South Capitol and E Streets	010	11/18/10	*			
15a	Half and L Streets, SE	010	11/18/10	*			
15b	South Capitol and I Streets	010	11/20/10	*			
15c	South Capitol and I Streets	010	11/20/10	*			
16	North of Main Sewage Pumping Station	012	11/18/10	*			
17	4 th and N Streets, SE, Both Extended	013	11/26/10	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	11/29/10	*			
18	6 th and M Streets, SE	014	11/04/10	*			
19	9 th and M Streets, SE	015	11/04/10	*			
19a	9 th and M Streets, SE	015	11/04/10	*			
20	12 th and M Streets, SE	016	11/04/10	*			
20a	12 th and M Streets, SE	016	11/04/10	*			
21	14 th and M Streets, SE	017	11/05/10	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/24/10	*			

				(Condition		
a v		Associated NPDES	Date	~ .	Needs Work		
Struct No.	Location	Outfall	Inspected			Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	11/24/10	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/24/10	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/04/10	*			
22e	14 th Street and Kentucky Ave, SE	018	11/04/10	*			
23	Independence Ave, 21 st Street, SE, Extended	019	11/30/10	*			
24a	East Capitol St, west of RFK stadium	019	11/30/10	*			
28	21 st and Constitution Ave, NW	020	11/26/10	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/26/10	*			
30	17 th and D Streets, NW	020	11/03/10	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/03/10	*			
33	10 th and F Streets, NW	020	11/03/10	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/23/10	*			
34a	23 rd Street near C Street, NW	020	11/26/10	*			
35	Northeast of Roosevelt Bridge, NW	021	11/23/10	*			
36	27 th and I Streets, NW	022	11/29/10	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/29/10	*			
36b	19 th and L Streets, NW	022, 034	11/17/10	*			
36d	17 th and L Streets, NW	022, 034	11/17/10	*			
36g	18 th and M Streets, NW	022, 034	11/17/10	*			
36h	18 th and M Streets, NW	022, 034	11/17/10	*			
37	27 th and Eye Streets, NW	022	11/19/10	*			
38	29 th and K Streets, NW	024	11/01/10	*			
38a	30 th Street, south of K Street, NW	024	11/01/10	*			
39a	30 th and K Streets, NW	024	11/01/10	*			
39b	30 th and K Streets, NW	024	11/01/10	*			
41b	31 st and K Streets, NW	025	11/01/10	*			
41c	31 st and K Streets, NW	025	11/01/10	*			
42	Wisconsin Ave and K Street, NW	026	11/17/10	*			

				Condition			
	T	Associated NPDES		C 1	Needs Work		
Struct No. 43	Location Potomac and Water Streets, NW	Outfall	<i>Inspected</i> 11/17/10	G00d *		work Needed	Work performed
43 43a	Potomac and Water Streets, NW	027	11/17/10	*			
43a 44	Water Street, west of Potomac St, NW	027		*			
44	36 th and M Streets, NW	027	11/17/10	*			
43	Canal Rd, 1000ft. east of Foxhall Rd, NW	028	11/04/10	*			
40	38 th Street and Reservoir Road, NW	029	11/04/10	*			
47 47a	37 th and T Streets, NW	029	11/04/10 11/04/10	*			
47a 47b	37 th and T Streets, NW	029		*			
476 47c	37 and 1 Streets, NW 38 th and W Streets, NW	029	11/04/10	*			
47C 49		029	11/04/10	*			
49 50	Pennsylvania Ave, east side of Rock Creek, NW 26 and M Streets, NW	031	11/08/10	*			
	N Street Extended, west of 25 th Street, NW	032	11/08/10	*			
51 52	22 nd Street between M and N Streets, NW	033	11/08/10	*			
	N Street between 22 nd and 23 rd Streets, NW	034	11/23/10	*			
52a		034	11/23/10	*			
53	22 nd and M Streets, NW	022, 034	11/24/10	*			
53a	22 nd and M Streets, NW	022, 034	11/24/10	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	11/24/10	*			
53c	L and 22 nd Streets, NW	022	11/24/10	*			
54	23 rd and O Streets, NW	034	11/26/10	*			
55	22 nd Street, south of Q Street, NW	035	11/26/10				
55a	22 nd Street, south of Q Street, NW	035	11/26/10	*			
56	23 rd and Massachusetts Ave, NW	036	11/26/10				
57	23 rd Street, south of Q Street, NW	036	11/26/10	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	11/19/10	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/19/10	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/19/10	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/19/10	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/24/10	*			

			D	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	042	11/24/10	*		WOIK Needed	work perjormeu
64	Adams Mill Road, south of Irving Street, NW	042	11/24/10	*			
65	Kenyon Street and Adams Mill Road, NW	043	11/24/10	*			
65a	Kenyon Street and Adams Mill Road, NW		11/24/10	*			
66	Adams Mill Road and Lamont Street, NW	044		*			
67	·	045	11/24/10	*			
	Park Rd , south of Piney Branch Pkwy, NW	046	11/24/10				
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/24/10	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/24/10	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/24/10	*			
70i	5 th and Quackenbos Streets, NW	049	11/05/10	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	11/05/10	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/29/10	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/29/10	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/29/10	*			
74	Q Street, west of Rock Creek, NW	053	11/29/10	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/29/10	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	11/29/10	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	11/08/10	*			
78	28th Street Extended, west of Rock Creek, NW	057	11/29/10	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	11/17/10	*			
84	26 th and P Streets, NW	060	11/29/10	*			
84a	26 th and P Streets, NW	060	11/29/10	*			

- 1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.
- 2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

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 - Outlans and The Gates											
			v								
		Ca		Pres	ent?	Condit			CSO Sign		
	Date										
	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed	
,	11/19/10	*		*		*		*			
	11/10/10	*		*		*		*			
				-				*			
*								-			
5								-			
				*		*		-			
								-			
Main Sewage Pumping Station, SE		*			*			*			
Main Sewage Pumping Station, SE	11/18/10	*		*		*		*			
Main Sawaga Dumping Station SE	11/18/10										
		*		*		*		*			
Southeast Federal Center, aligned with 4 th St.	11/19/10	*		*		*		*			
Navy Yard, aligned with 6 th St., SE	11/30/10	*		*		*		*			
Navy Yard, aligned with 9th Street, SE	11/30/10	*			*			*			
12th and O Streets, SE	11/30/10	*		*		*		*			
M and Water Street, SE	11/30/10	*		*		*		*			
East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	11/30/10	*		*		*		*			
Adjacent to Service Drive behind swirl facility and D.C. General Hospital	11/23/10	*			*			*			
Rock Creek Parkway and Independence, NW	11/30/10	*		*		*		*			
Rock Creek Parkway and C St., NW	11/30/10	*			*			*			
Rock Creek Parkway and G St., NW	11/30/10	*		*		*		*			
South of 30 th and K Streets, NW	11/30/10	*		*			*	*			
	Main Sewage Pumping Station, SE Southeast Federal Center, aligned with 4 th St. Navy Yard, aligned with 6 th St., SE Navy Yard, aligned with 9th Street, SE 12th and O Streets, SE M and Water Street, SE East of Barney Circle and South of Pennsylvania Avenue Bridge, SE Adjacent to Service Drive behind swirl facility and D.C. General Hospital Rock Creek Parkway and Independence, NW Rock Creek Parkway and C St., NW	DateLocationInspectedBolling Air Force Base, at Giavanolli and Chanute, SW11/19/10Across from Navy Yard, aligned with Parsons Ave., SE11/18/10Good Hope Road and Welsh Memorial Bridge11/18/10Between 11 th St. and Anacostia Bridges, SE11/18/10O St. Sewage Pumping Station, SE11/18/10Main Sewage Pumping Station, SE11/13/10Navy Yard, aligned with 6 th St., SE11/30/10Navy Yard, aligned with 9th Street, SE11/30/10Navy Yard, aligned with 9th Street, SE11/30/10Mand Water Street, SE11/30/10East of Barney Circle and South of Pennsylvania Avenue Bridge, SE11/30/10Adjacent to Service Drive behind swirl facility and D.C. General Hospital11/23/10Rock Creek Parkway and Independence, NW11/30/10Rock Creek Parkway and G St., NW11/30/10	LocationDate InspectedBolling Air Force Base, at Giavanolli and Chanute, SW11/19/10Across from Navy Yard, aligned with Parsons Ave., SE11/18/10Ave., SE11/18/10Good Hope Road and Welsh Memorial Bridge11/18/10Between 11th St. and Anacostia Bridges, SE11/18/10O St. Sewage Pumping Station, SE11/18/10O St. Sewage Pumping Station, SE11/18/10Main Sewage Pumping Station, SE11/1/30/10Main Sewage Pumping Station, SE11/130/10Main Sewage Pumping Station, SE11/30/10Main Sewage Pumping Station, SE11/30/10Mater Stre	$\begin{tabular}{ c c c c c } \hline Ultical Interval Interva$	$\begin{tabular}{ c c c c c c } \hline United timescales the set of th$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	

Table 2 - Outfalls and Tide Gates

				Outfall ondition		Gate sent?	Tide (Condi	tion		CSO Sign	
NPDES Outfall	Location	Date Inspected	ок	Needs Work	Yes	No	OK	Needs Work		Needs Work	Notes, Work Needed or Performed
025	South of 31st and K Streets, NW	11/30/10	*	WOIK	*	110	*	WOIK	*	Iteeds work	Tioles, work weeded of Terjormed
026	Wisconsin Avenue and Water Street, NW	11/30/10	*		*		*		*		
027	33 rd and Water Sts., NW	11/30/10	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/30/10	*			*			*		
	Adjacent to C&O Canal, aligned with 38 th St. NW	11/30/10	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	11/08/10	*			*			*		
032	26th and M Street, NW.	11/08/10	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/08/10	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/29/10	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/29/10	*		*		*		*		
036	22nd Street, South of Q Street NW.	11/19/10	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	11/01/10	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/01/10	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/08/10	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/08/10	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/30/10	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/30/10	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/30/10	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/30/10	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/30/10	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/03/10	*			*			*		

				Outfall ondition		Gate sent?	Tide G Condit			CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
		11/03/10									
047	Piney Branch Parkway and Ingleside Terrace		*		*		*		*		
		11/03/10									
	South of Piney Branch Parkway and 17 th St.										
048			*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/03/10	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/01/10	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		11/18/10									
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	11/18/10	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	11/17/10	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	11/30/10	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	11/30/10	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	11/30/10	*		*		*		*		
	Connecticut Avenue and Rock Creek Parkway, NW.	11/17/10	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	11/17/10	*		*		*		*		

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service
Main	30	4	10	None			
Eastside	30	2	4	Screen #2	November 1-30	Screen being overhaul	January 2011
Poplar Point	30	2 1		Pump 1, 2 & 3 Screens 1 and 2		Pumps need major overhaul. By pass pumping and screening in progress	January 2011
Potomac	30	4	5	#5 pump o/s	November 1-30	Pump being rehab.	January 2011

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.

		Pumping Stations – Preventr	ve Maintenance
		Type of Preventive Maintenance	
Pumping Station	Date Performed	Performed ¹	Comments
Main	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/26/2010	Group A	Add oil, grease bearings and replace packing if needed.

 Table 2-4

 Pumping Stations – Preventive Maintenance

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

				0	
	Sanitary Pi	ımpage	Storm	Water/CSO Pumped To	o Anacostia River
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	(units)
Main	1,528.30	50.94	N/A	N/A	N/A
O St ¹	134.01	4.47	N/A	N/A	N/A
Eastside	428.60	14.29	N/A	N/A	N/A
Poplar Point	576.00	19.20	N/A	N/A	N/A
Potomac	3,205.40	106.85	N/A	N/A	N/A
Rock Creek	156.67	5.22	N/A	N/A	N/A
Upper Anacostia	186.25	6.21	N/A	N/A	N/A
Earle Place	0.31	0.01	N/A	N/A	N/A
Notes:					

Table 2-5Pumping Stations – Pumpage

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:

		normeasi	boundary Swift	racinty –	inspections and Equ	ipment in Service
Date	#		Screens or Swirls			
Dule	##					
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
11/25/2010	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
11/25/2010	Group A	

 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

_		Northeast	Doundary Swit	Tracinity = wet v	veatiler Operation	15
		Approx. Storm				Approx. Screenings
		$Duration^{1}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³
	Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
	11/04/2010	11	28.28	8.31	19.97	0.85(68)
	11/04/2010	5	1.80	1.65	0.15	0.0
	11/17/2010	6	8.66	8.66	0	2.15(172)

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

Note: Influent meter malfunctioned therefore influent data was estimated, maintenance personnel are waiting for the replacement part for the meter.

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

	Chlor/	Do	sages	Residual Chlorit Results	ne Test	E. Coli Test Results		
	Dechlor						Count	
	System	NaOCl	NaHSO ₃		Conc.		Per	
Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	
11/04/2010	Yes	5	2	Mix Chamber	0.1	Mix Chamber	5,300	
11/04/2010	Yes	5	2	Anacostia River	0.0	Anacostia River	4,900	
11/04/2010	Yes	5	2	Mix Chamber	0.0	Mix Chamber	49,000	
11/04/2010	Yes	5	2	Anacostia River	0.0	Anacostia River	31,000	

<u>Notes:</u> 1. Mix Chr.: Mixing Chamber River: River Outfall

2.

 Table 2-10

 Northeast Boundary Swirl Facility – Effluent Sampling Results

		Flow Composited Sample Results									
		Nitrite	Nitrate	Total Kjeldahl		Total	Carbonaceous				
	Total suspended	(NO2-N)	(NO3-N))	Nitrogen	Total Nitrogen	Phosphorus	Biological Oxygen				
Date	solids (mg/L)	mg/L	mg/L	(mg/L as N)	(mg/L)	(mg/L)	Demand (mg/L)				
11/04/10	25.0	0.00	0.45	3.84	4.29	0.52	27.8				

17

2.5 Inflatable Dams

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

Inflatable Dam		Was Dam Out of Service	2		Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	11/25/10	No	N/A	N/A	N/A
14 - West	11/25/10	No	N/A	N/A	N/A
15	11/25/10	No	N/A	N/A	N/A
15A	11/25/10	No	N/A	N/A	N/A
16 - East	11/25/10	No	N/A	N/A	N/A
16 - West	11/25/10	No	N/A	N/A	N/A
24 - North	11/25/10	No	N/A	N/A	N/A
24 - Middle	11/25/10	No	N/A	N/A	N/A
24 - South	11/25/10	No	N/A	N/A	N/A
34	11/25/10	No	N/A	N/A	N/A
35	11/25/10	No	N/A	N/A	N/A
52	11/25/10	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	None	N/A
15A	None	N/A
16 (E & W)	None	N/A
24	None	N/A
34	None	N/A
35	None	N/A
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow (hrs)
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
Outfall Sewer Control Gates	Operational Status	Position
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

There was no dry weather overflow during November 2010.

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

				Inspections	1			Clea	ning		
			CBs in	Total Anacostia CBs Inspected	Total Anacostia CBs Inspected	CBs Clea Last N		CB's Cle	eaned this	Total CBs Cleaned This Year to Date	
		CBs in	Anacostia	Once this	Twice this						
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	734	2567	2335	0	0	2567	2335
2	4,714	4,112	2,316	2,316	2,316	6317	5312	454	345	6771	5657
3	3,555	461	-	0	0	5331	600	64	48	5395	648
4	2,782	1,985	159	159	159	2433	2433 1381		471	3059	1852
5	2,167	1,035	1,035	1,035	1,035	3960	2064	31	5	3991	2069
6	1,783	1,594	1,594	1,594	1,594	2908	1999	287	173	3195	2172
7	2,313	-	-	0	0	4361	0	323	0	4684	0
8	1,278	116	116	116	116	261	92	1231	880	1492	972
WASA Subtotal	20,183	10,871	5,954	5,954	5,954	28,138	13,783	3,016	1,922	31,154	15,705
DDOT (via VMS) Subtotal				0	0			0	0		
Grand Total	20,183	10,871	5,954	5,954	5,954			3,016	1,922		
% Cleaned/Inspected to Date				100%	100%					> 100%	> 100%

Table 4-1 Catch Basin Summaries

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report November 2010.doc

4.2 BMP Demonstration Projects

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

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

Table 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	11/30/10	Good	Minor	Nets emptied.	350 lbs.
			Maintenance		
Bar Rack CSO 040	11/30/10	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	11/30/10	Good	None	Routine Cleaning	(1)

Notes:

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

4.3 Anacostia River Floating Debris Removal Program

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	5
Reason not Operating	Preventive maintenance on skimmers.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One, B-29
Dates	11/17 and 11/18. 11/24, 11/26 and 11/30.
Reason	Repairs to damaged cylinder and props flights.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	30 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

4.4 CSS Litter Control

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

Status: no activities this month.

5. MONITORING

5.1 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

Table 5-1 CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries SOLIDS AND FLOATABLES VISUAL SURVEY FORM

Date: Nov	te: November 13, 2008 Inspector									ctor's	Initial: DJW/ VB		
		Ove	rflow	0	bserv	ed	Qı	antity	/ of	Qua	ntity o	of	
CSO	Time of Observa tion	Y	N	L	м	н	L	М	н	L	М	н	REMARKS/OTHER
	2:25 pm	х		х			х			х			
009													
	2·25 pm	х		x			x			х			
010													
	2 [.] 25 pm	х		x			x			х			
011													
	4.00 pm	x		x			x			x			
011a													
040													
012													

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2	Kaiman Da	a (menes)		
Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
11/1/2010	0.04	0.03	0.13	0
11/2/2010	0	0	0	0
11/3/2010	0.3	0.3	0.3	0.3
11/4/2010	0.11	0.11	0.11	0.11
11/5/2010	0	0	0	0
11/6/2010	0	0	0	0
11/7/2010	0	0	0	0
11/8/2010	0	0	0	0
11/9/2010	0	0	0	0
11/10/2010	0	0	0	0
11/11/2010	0	0	0	0
11/12/2010	0	0	0	0
11/13/2010	0	0	0	0
11/14/2010	0.73	0.73	0.73	0.73
11/15/2010	0	0	0	0
11/16/2010	0	0	0	0
11/17/2010	0	0	0	0
11/18/2010	0	0	0	0
11/19/2010	0	0	0	0
11/20/2010	0.02	0.02	0.02	0.02
11/21/2010	0	0	0	0
11/22/2010	0	0	0	0
11/23/2010	0	0	0	0
11/24/2010	0	0	0	0
11/25/2010	0	0	0	0
11/26/2010	0	0	0	0
11/27/2010	0.4	1.25	1.32	1.17
11/28/2010	0	0	0	0
11/29/2010	0	0	0	0
11/30/2010	0	0	0	0
TOTALS	1.6	2.44	2.61	2.33

Table 5-2Rainfall Data (inches)



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

Monthly Operations Report For Combined Sewer System Month: December 2010

Prepared By:

D.C. 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 2010

Table of Contents

1. INTRODUCTION

2. OPERATION AND MAINTENACE

- 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 Visual Survey of Main & O
- 5.2 Rainfall Data

1. INTRODUCTION

The District of Columbia Water and Sewer Authority (WASA or Authority) 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 Authority'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 MAINTENACE

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

				(Condition		
~		Associated NPDES	Date		Needs Work		
Struct No.	Location	Outfall	Inspected			Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/29/10	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/29/10	*			
5	Poplar Point Pumping Station	004	12/29/10	*			
6	Chicago Street and Railroad Ave, SE	005	12/07/10	*			
7	W Street and Railroad Ave, SE	005	12/07/10	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	12/07/10	*			seperated
9	13 th Street and Ridge Place, SE	007	12/07/10	*			
11	"O" Street Pumping Station	011(a)	12/13/10	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/13/10	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/03/10	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/13/10	*			
15	South Capitol and E Streets	010	12/13/10	*			
15a	Half and L Streets, SE	010	12/13/10	*			
15b	South Capitol and I Streets	010	12/07/10	*			
15c	South Capitol and I Streets	010	12/07/10	*			
16	North of Main Sewage Pumping Station	012	12/13/10	*			
17	4 th and N Streets, SE, Both Extended	013	12/28/10	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	12/28/10	*			
18	6 th and M Streets, SE	014	12/10/10	*			
19	9 th and M Streets, SE	015	12/10/10	*			
19a	9 th and M Streets, SE	015	12/10/10	*			
20	12 th and M Streets, SE	016	12/10/10	*			
20a	12 th and M Streets, SE	016	12/10/10	*			
21	14 th and M Streets, SE	017	12/13/10	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	12/28/10	*			

				(Condition		
G N		Associated NPDES		a .	Needs Work		
Struct No.	Location	Outfall	Inspected	Good *		Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	12/28/10				
22c	Barney Circle and Pennsylvania Ave, SE	018	12/28/10	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/19/10	*			
22e	14 th Street and Kentucky Ave, SE	018	12/28/10	*			
23	Independence Ave, 21 st Street, SE, Extended	019	12/28/10	*			
24a	East Capitol St, west of RFK stadium	019	12/13/10	*			
28	21 st and Constitution Ave, NW	020	12/14/10	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/17/10	*			
30	17 th and D Streets, NW	020	12/17/10	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/14/10	*			
33	10 th and F Streets, NW	020	12/17/10	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/17/10	*			
34a	23 rd Street near C Street, NW	020	12/17/10	*			
35	Northeast of Roosevelt Bridge, NW	021	12/17/10	*			
36	27 th and I Streets, NW	022	12/12/10	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/12/10	*			
36b	19 th and L Streets, NW	022, 034	12/14/10	*			
36d	17 th and L Streets, NW	022, 034	12/14/10	*			
36g	18 th and M Streets, NW	022, 034	12/14/10	*			
36h	18 th and M Streets, NW	022, 034	12/14/10	*			
37	27 th and Eye Streets, NW	022	12/12/10	*			
38	29 th and K Streets, NW	024	12/10/10	*			
38a	30 th Street, south of K Street, NW	024	12/10/10	*			
39a	30 th and K Streets, NW	024	12/10/10	*			
39b	30 th and K Streets, NW	024	12/10/10	*			
41b	31 st and K Streets, NW	025	12/10/10	*			
41c	31 st and K Streets, NW	025	12/10/10	*			
42	Wisconsin Ave and K Street, NW	026	12/20/10	*			

			_	(Condition		
	T	Associated NPDES		C 1	Needs Work		
Struct No. 43	Location Potomac and Water Streets, NW	Outfall	Inspected	Good *		Work Needed	Work performed
		027	12/21/10	* *			
43a	Potomac and Water Streets, NW	027	12/20/10	* *			
44	Water Street, west of Potomac St, NW	027	12/21/10				
45	36 th and M Streets, NW	028	12/03/10	*			
46	Canal Rd, 1000ft. east of Fox hall Rd, NW	029	12/03/10	*			
47	38 th Street and Reservoir Road, NW	029	12/03/10	*			
47a	37 th and T Streets, NW	029	12/03/10	*			
47b	37 th and T Streets, NW	029	12/03/10	*			
47c	38 th and W Streets, NW	029	12/03/10	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	12/26/10	*			
50	26 and M Streets, NW	032	12/28/10	*			
51	N Street Extended, west of 25 th Street, NW	033	12/28/10	*			
52	22 nd Street between M and N Streets, NW	034	12/27/10	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/27/10	*			
53	22 nd and M Streets, NW	022, 034	12/29/10	*			
53a	22 nd and M Streets, NW	022, 034	12/08/10	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	12/13/10	*			
53c	L and 22 nd Streets, NW	022	12/13/10	*			
54	23 rd and O Streets, NW	034	12/22/10	*			
55	22 nd Street, south of Q Street, NW	035	12/22/10	*			
55a	22 nd Street, south of Q Street, NW	035	12/22/10	*			
56	23 rd and Massachusetts Ave, NW	036	12/22/10	*			
57	23 rd Street, south of Q Street, NW	036	12/22/10	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	12/21/10	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/21/10	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/21/10	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/21/10	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/17/10	*			

			5	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	Ошјан	12/17/10	*		WOIK Needed	work perjormed
05	Halvard Street and Rock Creek Farkway, NW	042	12/17/10	-			
64	Adams Mill Road, south of Irving Street, NW	043	12/17/10	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/17/10	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/17/10	*			
66	Adams Mill Road and Lamont Street, NW	045	12/17/10	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	12/17/10	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/17/10	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/17/10	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/17/10	*			
70i	5 th and Quackenbos Streets, NW	049	12/10/10	*			
71	28th Street, west of Rock Creek Parkway, NW	050	12/21/10	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/22/10	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/22/10	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/22/10	*			
74	Q Street, west of Rock Creek, NW	053	12/22/10	*			separated
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/28/10	*			
77	Norman stone Dr Extended, west of Rock Creek, NW	056	12/28/10	*			
77a	Norman stone Dr and Norman stone Lane, NW	056	12/03/10	*			
78	28th Street Extended, west of Rock Creek, NW	057	12/28/10	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	12/21/10	*			
84	26 th and P Streets, NW	060	12/22/10	*			
84a	26 th and P Streets, NW	060	12/22/10	*			

- 1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.
- 2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

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.

-		14		- Outlan		Thue C	ares				
				Outfall		Gate	Tide G				
			Ca	ondition	Pres	sent?	Condit	1		CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	12/03/10	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
005	Ave., SE	12/27/10	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	12/27/10	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	12/27/10	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/06/10	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/13/10	*			*			*		
011	Main Sewage Pumping Station, SE	12/13/10	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/13/10	*		*		*		*		
	Main Sewage Pumping Station, SE										
012		12/13/10	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	12/20/10	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	12/20/10	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/20/10	*			*			*		
016	12th and O Streets, SE	12/20/10	*		*		*		*		
017	M and Water Street, SE	12/20/10	*		*		*		*		
	East of Barney Circle and South of										
018	Pennsylvania Avenue Bridge, SE	12/20/10	*		*		*		*		
	Adjacent to Service Drive behind swirl facility										
019	and D.C. General Hospital	12/13/10	*			*			*		
020	Rock Creek Parkway and Independence, NW	12/27/10	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/27/10	*			*			*		
-	Rock Creek Parkway and G St., NW	12/27/10	*		*		*		*		
024	South of 30 th and K Streets, NW	12/27/10	*		*			*	*		

Table 2 - Outfalls and Tide Gates

				Outfall ondition		de Gate Tide Gate resent? Condition		(CSO Sign		
NPDES Outfall	Location	Date Inspected	ок	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	Notes, Work Needed or Performed
025	South of 31st and K Streets, NW	12/27/10	*	WOIK	*	INO	*	WOIK	*	Ineeus work	Notes, work Needed of Ferjormed
025	Wisconsin Avenue and Water Street, NW	12/27/10	*		*		*		*		
020	33 rd and Water Sts., NW	12/27/10	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/27/10	*			*			*		
	Adjacent to C&O Canal, aligned with 38 th St. NW	12/27/10	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	12/23/10	*			*			*		
032	26th and M Street, NW.	12/23/10	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/23/10	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/22/10	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	12/22/10	*		*		*		*		
036	22nd Street, South of Q Street NW.	12/27/10	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	12/21/10	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/21/10	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/21/10	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/21/10	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/06/10	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/06/10	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/06/10	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/06/10	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/06/10	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/17/10	*			*			*		

			Outfall Condition			Gate sent?	Tide G Condii			CSO Sign	
NPDES Outfall	Location	Date Inspected	ОК	Needs Work	Yes	No	OK	Needs Work		Needs Work	Notes, Work Needed or Performed
Ouijali	Location	Inspected	UK	WOIK	res	INO	UK	WOIK	UK	Ineeds work	Notes, work needed or Perjormed
047	Piney Branch Parkway and Ingleside Terrace	12/17/10	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	12/17/10	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	12/17/10	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/21/10	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	12/27/10	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	12/27/10	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	12/27/10	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	12/23/10	*		*		*		*		
056	Norman stone Dr. and Rock Creek Parkway, NW.	12/23/10	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	12/23/10	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	12/21/10	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	12/27/10	*		*		*		*		

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service
Main	30	4	10	None			
Eastside	31	2	4	Screen #2	December 1-31	Screen being overhaul	January 2011
Poplar Point	30	2 1		Pump 1, 2 & 3 Screens 1 and 2	December 1-31	Pumps need major overhaul. By pass pumping and screening in progress	January 2011
Potomac	31	4	5	#5 pump o/s	December 1-31	Pump being rehab.	January 2011

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.

Pumping Stations – Preventive Maintenance								
		Type of Preventive Maintenance						
Pumping Station	Date Performed	$Performed^{l}$	Comments					
Main	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					
O St	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					
Eastside	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					
Poplar Point	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					
Potomac	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					
Rock Creek	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					
Upper Anacostia	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					
Earle Place	12/23/10	Group A	Add oil, grease bearings and replace packing if needed.					

 Table 2-4

 Pumping Stations – Preventive Maintenance

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

				0				
	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River					
	Total Wastewater	Daily Average			Screenings Collected			
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	(units)			
Main	1,561.94	50.39	N/A	N/A	N/A			
O St ¹	139.68	4.51	12/01/10	66.40	Normal			
			12/12/10	26.00	Normal			
Eastside	432.40	13.95	N/A	N/A	N/A			
Poplar Point	595.20	19.20	N/A	N/A	N/A			
Potomac	3,393.78	109.48	N/A	N/A	N/A			
Rock Creek	153.30	4.95	N/A	N/A	N/A			
Upper Anacostia	186.67	6.02	N/A	N/A	N/A			
Earle Place	0.13	0.0042	N/A	N/A	N/A			

Table 2-5Pumping Stations – Pumpage

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:

-		Northeast Boundary Swift Facility – hispections and Equipment in Service										
ſ												
	Date	#		Screens or Swirls								
	Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service					
	12/27/10	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a					

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
12/27/10	Group A	

 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

Northeuse Doundary Swiff Facility Wet Weather Operations											
	Approx.				4 G ·						
	Storm Duration ¹	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings Volume ³						
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)						
12/1/2010	9	16.11	4.230	11.880	2.00 (160.0)						
12/12/2010	4	6.26	6.26	0	0.15(12.0)						
12/12/2010	5	7.96	7.96	0	0.30(24.0)						

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

Note

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

	Chlor/	Do	sages	Residual Chlorit Results	ne Test	E. Coli Test Results		
	Dechlor						Count	
	System	NaOCl	NaHSO3		Conc.		Per	
Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	
12/01/10	Yes	5	2	Mix Chamber	1.0	Mix Chamber	280	
12/01/10	Yes	5	2	Anacostia River	0.0	Anacostia River	580	

<u>Notes:</u> 1. Mix Chr.: Mixing Chamber

2. River: River Outfall

 Table 2-10

 Northeast Boundary Swirl Facility – Effluent Sampling Results

		Flow Composited Sample Results											
		Nitrite	Nitrate	Total Kjeldahl		Total	Carbonaceous						
	Total suspended	(NO2-N)	(NO3-N))	Nitrogen	Total Nitrogen	Phosphorus	Biological Oxygen						
Date	solids (mg/L)	mg/L	mg/L	(mg/L as N)	(mg/L)	(mg/L)	Demand (mg/L)						
12/01/10	201	0.00	0.36	14.2	14.6	1.61	74.7						

2.5 Inflatable Dams

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

Inflatable Dam		Was Dam Out of Service	2		Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	12/20/10	No	N/A	N/A	N/A
14 - West	12/20/10	No	N/A	N/A	N/A
15	12/20/10	No	N/A	N/A	N/A
15A	12/20/10	No	N/A	N/A	N/A
16 - East	12/20/10	No	N/A	N/A	N/A
16 - West	12/20/10	No	N/A	N/A	N/A
24 - North	12/20/10	No	N/A	N/A	N/A
24 - Middle	12/20/10	No	N/A	N/A	N/A
24 - South	12/20/10	No	N/A	N/A	N/A
34	12/20/10	No	N/A	N/A	N/A
35	12/20/10	No	N/A	N/A	N/A
52	12/20/10	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	None	N/A
15A	None	N/A
16 (E & W)	None	N/A
24	None	N/A
34	None	N/A
35	None	N/A
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow (hrs)
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
Outfall Sewer Control Gates	Operational Status	Position
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), and Sanitary Sewer overflows (SSOs) are summarized below:

Table 3-1DRY WEATHER COMBINE SEWER OVERFLOW

There was no dry weather combine sewer overflow in the month of December.

SANITARY SEWER OVERFLOW

There is one sanitary sewer overflow in the month of December

Location	Vicinity of east Potomac Park near Ohio and Buckeye Drives, NW.
	Staff from the national Park Services (NPS) informed the District of Columbia Water and Sewer
	Authority that on November 29, 2010, they observed what appeared to be sewage bubbling to the
Cause	surface in the above referenced location.
Date/ Time Discovered	December 3, 2010
	DC Water and Sewer investigated the report and observed no active bubbling or seepage, but there was an area that appeared wet over the 72-inch force main. During our review and testing, it was discovered that the bubbling only occurs when pump #4 is in operations. However, whenever Pump #2 was operating, there was no surface discharged. DC Water and Sewer will operate the 72-inch force main off Pump #2 only, and may direct some flow in the 96-inch force main while allowing construction
Action Taken	work to continue at Structure #2.
Date/Time Discharge Ceased	December 3, 2010
Estimated Volume (mg)	Less than 100 gallons
Did Overflow Reach Receiving water?	Yes, Potomac River.
Action taken to prevent reoccurrence	DC Water and Sewer directed contractor to inspect and temporary patch the 72-inch force main while developing a plan to inspect the force main to determine the most effective method of rehabilitation for the pipe.

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

				Inspections	7	Cleaning						
			CBs in	Total Anacostia CBs Inspected	Total Anacostia CBs Inspected	CBs Cleaned Thru Last Month			eaned this	Total CBs This Yea		
		CBs in	Anacostia	Once this	Twice this							
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS	
1	1,591	1,568	734	734	734	2567	2335	0	0	2567	2335	
2	4,714	4,112	2,316	2,316	2,316	6771	5657	105	105	6876	5762	
3	3,555	461	-	0	0	5395	648	120	69	5515	717	
4	2,782	1,985	159	159	159	3059	1852	450	320	3509	2172	
5	2,167	1,035	1,035	1,035	1,035	3991	2069	25	25	4016	2094	
6	1,783	1,594	1,594	1,594	1,594	3195	2172	467	242	3662	2414	
7	2,313	-	-	0	0	4684	0	128	0	4812	0	
8	1,278	116	116	116	116	1492	972	676	22	2168	994	
WASA Subtotal	20,183	10,871	5,954	5,954	5,954	31,154	15,705	1,971	783	33,125	16,488	
DDOT (via VMS) Subtotal				0	0			0	0	0	0	
Grand Total	20,183	10,871	5,954	5,954	5,954			1,971	783	33,125	16,488	
% Cleaned/Inspected to Date				100%	100%					>100%	>100%	

Table 4-1 Catch Basin Summaries

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report December 2010.doc

4.2 BMP Demonstration Projects

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

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

Table 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	12/28/10	Good	Minor	Nets emptied.	280 lbs.
			Maintenance		
Bar Rack CSO 040	12/21/10	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	12/06/10	Good	None	Routine Cleaning	(1)

Notes:

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

4.3 Anacostia River Floating Debris Removal Program

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	12
Reason not Operating	Strong winds, low tide, frozen river and PM service.
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	12/1/10 to 12/7/10.
Reason	Skimmer B-28: repair - hydraulic oil leak
Plan to Restore to Service	As soon as possible.
Volume Material Collected	20 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

4.4 CSS Litter Control

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

Status: no activities this month.

5. MONITORING

5.1 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

			Date	:								I	nspector's Initials:
		Ove	rflow	0	Observed Quantity of Quar			ntity c	of				
CSO	Time of Observa tion	Y	N	L	м	н	L	М	н	L	М	н	REMARKS/OTHER
009													
010				NC	DN	<u>E</u>							
011													
011a													
012													

Table 5-1 CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries SOLIDS AND FLOATABLES VISUAL SURVEY FORM

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

	Kannan Da	a (menes)		
Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS
12/1/2010	0	0	0	0.8
12/2/2010	0	0	0	0
12/3/2010	0	0	0	0
12/4/2010	0	0	0	0
12/5/2010	0	0	0	0
12/6/2010	0	0	0	0
12/7/2010	0	0	0	0
12/8/2010	0	0	0	0
12/9/2010	0	0	0	0
12/10/2010	0	0	0	0
12/11/2010	0.03	0.04	0.05	0.15
12/12/2010	0.63	0.71	0.71	0.66
12/13/2010	0	0.01	0	0
12/14/2010	0	0	0	0
12/15/2010	0	0	0.1	0
12/16/2010	0	0	0	0
12/17/2010	0.02	0.1	0	0.13
12/18/2010	0	0	0	0
12/19/2010	0	0	0	0
12/20/2010	0	0	0	0
12/21/2010	0	0	0.09	0
12/22/2010	0	0	0	0
12/23/2010	0	0	0	0
12/24/2010	0	0	0	0
12/25/2010	0	0	0	0
12/26/2010	0	0	0	0
12/27/2010	0	0	0	0
12/28/2010	0	0	0	0
12/29/2010	0	0	0	0
12/30/2010	0	0.21	0	0
12/31/2010	0	0	0	0
TOTALS	0.68	1.07	0.95	1.74

Table 5-2Rainfall Data (inches)

E:\Consent Decree Reports\CSS\Q4\CSO Monthly Report December 2010.doc

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results Period: October, November, December 2010 SCENARIO: Q4Y2010, 1-19-2011

				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Overflow	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
nacostia CS)s						
005	Chicago St and Railroad Station SE	8	4.05	55.50	6.94	15.50	2.25
	Good Hope Road, West of Nichols						
006	Ave.,SE	3	0.15	3.00	1.00	1.50	0.75
007	13 th Street and Ridge Place,SE	5	5.21	13.75	2.75	8.25	1.00
	2nd Street, 300 feet North of N Place,			~~ ~~			
009	SE O Street SewagePumping Station, SE	6	2.70	20.50	3.42	11.25	0.50
010	(pumped Overflow)	7	95.14	19.75	2.82	13.50	0.25
010	South of Main Sewage Pumping		55.14	19.75	2.02	13.50	0.20
011	Station, SE (pumped overflow)	1	0.83	0.25	0.25	0.25	0.25
	South of Main SewagePumping						
011a	Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
	North of Main SewagePumping						
012	Station, SE (Tiber Creek)	2	16.95	5.25	2.63	4.00	1.25
013	4th and N Streets, SE	4	2.76	21.00	5.25	12.00	0.25
014	6th and M Streets, SE	8	16.05	59.25	7.41	17.75	3.25
015	9th and M Streets, SE	5	0.92	13.00	2.60	6.00	1.50
016	12th and M Streets, SE 14th and M Streets, SE	5	4.39 12.76	15.75 42.75	3.15 7.13	8.75 19.25	1.50 3.25
017	Barney Circle and Pennsylvania Ave,	0	12.70	42.75	7.13	19.25	3.20
018	SE	11	9.80	96.50	8.77	27.50	0.75
019	Northeast Boundary - Swirl Effluent	7	212.39	62.50	8.93	30.25	0.50
019	Northeast Bound Swirl Bypass	4	51.38	5.50	1.38	4.00	0.25
010	SUBTOTAL	•	435.49	0.00	1.00	1.00	0.20
otomac CSO							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
	23rd Street, North of Constitution Ave,						
020	NW (Easby Point)	5	14.65	17.50	3.50	10.50	1.50
021	Northeast ofRoosevelt Bridge, NW	5	128.41	22.25	4.45	13.00	2.25
022	27th and K Streets, NW	6	12.90	32.50	5.42	15.25	1.75
024	30th and K Streets, NW	5	8.35	23.75	4.75	13.50	1.25
025	31st & K St NW	3	0.18	2.75	0.92	1.50	0.50
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	9	16.69	109.50	12.17	24.75	6.00
028	36th and M Streets, NW Canal Road 1000 feet east of Rock	6	1.63	25.00	4.17	12.50	1.00
029	Creek,NW	5	2.66	10.00	2.00	6.00	0.50
023	SUBTOTAL	5	185.46	10.00	2.00	0.00	0.00
			100110				
ock Creek							
	Pennsylvania Avenue, East Rock						
031	Creek, NW	3	0.03	4.75	1.58	2.75	1.00
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
	N Street extendedwest of 25th		0.00	0.75	0.75	0.75	0.75
033	Street,NW	1	0.08	0.75	0.75	0.75	0.75
034	23rd and O Streets, SW 22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
035 036	22nd Street South of Q Street, NW 22nd Street South of Q Street, NW	0 5	0.00 0.40	0.00 14.75	0.00 2.95	0.00 8.00	0.00
030	Northwest of Belmontand Rock Creek	5	0.40	14.70	2.90	0.00	1.50
037	and Potomac Parkway	0	0.00	0.00	0.00	0.00	0.00
001	North of Belmont Road,east of	0	0.00	0.00	0.00	0.00	0.00
038	Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
000	Connecticut Avenue east of Rock	<u> </u>	0.00	0.00	0.00	0.00	0.00
039	Creek, NW	0	0.00	0.00	0.00	0.00	0.00
	Biltmore Street extended east of	-					2.00
040	RockCreek, NW	0	0.00	0.00	0.00	0.00	0.00
-	Ontario extended and Rock Creek	-					
041	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 2010 SCENARIO: Q4Y2010, 1-19-2011

				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Overflow	Overflow	of Overflow	Overflow	Overflow
	Description						
NPDES No.	Description Harvard Street and RockCreek	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
0.40			0.00	0.00	0.00	0.00	0.00
042	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
0.40	Adams Mill Road South of Irving		0.00	0.75	0.75	0.75	0.75
043	Street, NW	1	0.29	0.75	0.75	0.75	0.75
0.1.1	Kenyon Street and Adams Mill Road,		0.00	0.00	0.00	0.00	0.00
044	NW	0	0.00	0.00	0.00	0.00	0.00
0.45	Adams Mill Road and Lamont Street,		0.00	4.00	1.00	4.00	1.00
045	NW	1	0.03	1.00	1.00	1.00	1.00
0.40	Park Road south of Piney Branch		0.000	0.50	0.50	0.50	0.50
046	Parkway, NW	1	0.003	0.50	0.50	0.50	0.50
0.47	Ingleside Terrace extended and Piney		0.01	0.50	0.50	0.50	0.50
047	Branch Parkway Mt. Pleasant Street extended and	1	0.01	0.50	0.50	0.50	0.50
0.40			0.07	0.75	0.75	0.75	0.75
048	Piney Branch Parkway	1	0.07	0.75	0.75	0.75	0.75
040	Diney Drench and Lamant Streat NIM	-	10.70	00.05	4.45	12.00	2.00
049 050	Piney Branch and LamontStreet, NW 28th Street west of 16th Street, NW	5	19.79 0.00	22.25	4.45 0.00	13.00 0.00	2.00
050		0	0.00	0.00	0.00	0.00	0.00
054	Olive Street extended and Rock Creek	0	0.00	0.00	0.00	0.00	0.00
051	Parkway, NW O Street extended and Rock Creek	0	0.00	0.00	0.00	0.00	0.00
050		0	0.00	0.00	0.00	0.00	0.00
052	Parkway, NW O Street west of Rock Creek Parkway,	0	0.00	0.00	0.00	0.00	0.00
053	NW	0	0.00	0.00	0.00	0.00	0.00
053	West Side of Rock Creek300 ft. south	0	0.00	0.00	0.00	0.00	0.00
054		0	0.00	0.00	0.00	0.00	0.00
054	of Mass. Ave, NW Normanstone Drive extended west of	0	0.00	0.00	0.00	0.00	0.00
050	Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
056	28th Street extended west of Rock	0	0.00	0.00	0.00	0.00	0.00
057		5	2.94	20.50	4.10	11.00	1.00
057	Creek, NW Connecticut Avenue and Rock Creek	5	2.94	20.50	4.10	14.00	1.00
059		1	0.20	E 75	E 75	E 75	E 75
058	Parkway, NW	1	0.39	5.75	5.75	5.75	5.75
060	P St and 26 th St, NW						
	SUBTOTAL		24.04				
	TOTAL		644.99				
	TUTAL		644.99				

https://ltcp.jacobssf.com/Documents/05/0501/130 DSS/Quarterly Reports/2010/Q4/[Q4Y2010_Report_19Jan2011.xlsx]Q4Y2010

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