QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FIRST QUARTER, 2014

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: January 2014

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

Monthly Operations Report for Combined Sewer System Month: January 2014

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1. INTRODUCTION

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

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

2. OPERATION AND 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						

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/31/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/31/14	*			
5	Poplar Point Pumping Station	004	01/31/14	*			
6	Chicago Street and Railroad Ave, SE	005	01/06/14	*			
7	W Street and Railroad Ave, SE	005	01/06/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	01/06/14	*			
11	"O" Street Pumping Station	011(a)	01/13/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/13/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	01/31/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	01/31/14	*			
15	South Capitol and E Streets	010	01/13/17	*			
15a	Half and L Streets, SE	010	01/13/17	*			
15b	South Capitol and I Streets	010	01/13/17	*			
15c	South Capitol and I Streets	010	01/13/17	*			
16	North of Main Sewage Pumping Station	012	01/13/17	*			
17	4 th and N Streets, SE, Both Extended		N/A				Construction for
		013					Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	01/15/14	*			
18	6 th and M Streets, SE	014	01/08/14	*			
19	9 th and M Streets, SE	015	01/08/14	*			
19a	9 th and M Streets, SE	015	01/08/14	*			
20	12 th and M Streets, SE	016	N/A				Construction for
20.		016	01/00/14	*			Clean Rivers Project
20a	12 th and M Streets, SE	016	01/09/14	Ŷ			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	01/10/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	01/10/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/10/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
22d	Kentucky Ave and Potomac Street, SE	018	01/03/14	*			
22e	14 th Street and Kentucky Ave, SE	018	01/03/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	01/15/14	*			
24a	East Capitol St, west of RFK stadium	019	01/15/14	*			
28	21 st and Constitution Ave, NW	020	01/27/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	01/27/14	*			
30	17 th and D Streets, NW	020	01/09/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	01/09/14	*			
33	10 th and F Streets, NW	020	01/09/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	01/31/14	*			
34a	23 rd Street near C Street, NW	020	01/27/14	*			
35	Northeast of Roosevelt Bridge, NW	021	01/27/14	*			
36	27 th and I Streets, NW	022	01/09/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/15/14	*			
36b	19 th and L Streets, NW	022, 034	01/15/14	*			
36d	17 th and L Streets, NW	022, 034	01/10/14	*			
36g	18 th and M Streets, NW	022, 034	01/10/14	*			
36h	18 th and M Streets, NW	022, 034	01/10/14	*			
37	27 th and Eye Streets, NW	022	01/10/14	*			
38	29 th and K Streets, NW	024	01/15/14	*			
38a	30 th Street, south of K Street, NW	024	01/10/14	*			
39a	30 th and K Streets, NW	024	01/17/14	*			
39b	30 th and K Streets, NW	024	01/17/14	*			
41b	31 st and K Streets, NW	025	01/17/14	*			
41c	31 st and K Streets, NW	025	01/17/14	*			
42	Wisconsin Ave and K Street, NW	026	01/21/14	*			
43	Potomac and Water Streets, NW	027	01/21/14	*			
43a	Potomac and Water Streets, NW	027	01/21/14	*			
44	Water Street, west of Potomac St, NW	027	01/21/14	*			
45	36 th and M Streets, NW	028	01/06/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/06/14	*			
47	38 th Street and Reservoir Road, NW	029	01/06/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
47a	37 th and T Streets, NW	029	01/06/14	*			
47b	37 th and T Streets, NW	029	01/06/14	*			
47c	38 th and W Streets, NW	029	01/06/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	01/27/14	*			
51	N Street Extended, west of 25 th Street, NW	033	01/27/14	*			
52	22 nd Street between M and N Streets, NW	034	01/31/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	01/31/14	*			
53	22 nd and M Streets, NW	022, 034	01/31/14	*			
53a	22 nd and M Streets, NW	022, 034	01/31/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	01/31/14	*			
53c	L and 22 nd Streets, NW	022	01/31/14	*			
54	23 rd and O Streets, NW	034	01/17/14	*			
55	22 nd Street, south of Q Street, NW	035	01/17/14	*			
55a	22 nd Street, south of Q Street, NW	035	01/17/14	*			
56	23 rd and Massachusetts Ave, NW	036	01/17/14	*			
57	23 rd Street, south of Q Street, NW	036	01/17/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	01/02/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/06/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/06/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/08/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	01/08/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/08/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/08/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/08/14	*			
66	Adams Mill Road and Lamont Street, NW	045	01/08/14	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/08/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/08/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/08/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	01/08/14	*			
70i	5 th and Quackenbos Streets, NW	049	01/09/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
71	28 th Street, west of Rock Creek Parkway, NW	050	01/27/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/17/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/17/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/17/14	*			
74^{1}	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/27/14	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	01/17/14	*			
84a	26 th and P Streets, NW	060	01/17/14	*			

Notes:

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

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

2.2 Outfalls, Tide Gates and CSO Signs

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

		Tabl	e 2-2								
	0	utfalls and	d Tid	le Gate	S						
			Outfall Tide		Tide	Gate	Tid	e Gate			
			Cor	idition	Pres	ent?	Cor	idition	CS	O Sign	
NPDES		Date	OV	Needs	V	NT.	OV	Needs	OV	Needs	
	Location Polling Air Force Pase at Giovenelli and Chenuta SW	nspectea	• 0K	WORK	res *	INO	0K *	WORK	0K *	WORK	Notes, work Needed or Performed
005	A group from Navy Vard, aligned with Darsons Ava. SE	01/02/14	*		*		*		*		
005	Good Hope Road and Welsh Memorial Bridge	01/02/14 N/Δ	-		-		-		-		
000	Batwaan 11 th St. and Anagostia Bridges SE	10/A	*		*		*		*		
007	O St. Sawage Dumping Station SE	01/02/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/09/14	*			*			*		
010	Main Sawage Pumping Station, SE	01/09/14	*			*			*		
$\frac{011}{011(a)}$	Main Sewage Pumping Station, SE	01/09/14 01/00/14	*		*		*		*		
011(a)	Main Sewage Fullping Station, SE	01/09/14			•						
012	Main Sewage Pumping Station, SE	01/09/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	01/13/17	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/13/17	*			*			*		
016	12th and O Streets, SE	01/16/14	*		*		*		*		
017	M and Water Street, SE	01/16/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	01/16/14	*		*		*		*		
	Adjacent to Service Drive behind swirl facility & D.C. General										
019	Hospital	01/31/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	01/02/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/02/14	*			*			*		
022	Rock Creek Parkway and G St., NW	01/02/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	01/02/14	*		*		*		*		
025	South of 31st and K Streets, NW	01/02/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	01/02/14	*		*		*		*		
027	33 rd and Water Sts., NW	01/02/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/02/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	01/02/14	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
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			01	utfall	Tide	Gate	Tid	e Gate	CC	0.5.	
NDDES		Data	Con	Naada	Pres	ent?	Cor	Naada	CS	O Sign	
NPDES Outfall	Location	Dale Inspected	ОК	Work	Yes	No	ОК	Work	ок	Work	Notes Work Needed or Performed
032	26th and M Street, NW.	01/27/14	*		100	*	011		*	,, one	Troves, Wern Received of Telgernieu
033	Across street from St. Francis Jr. High and aligned with N St., NW.	01/271/4	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/17/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	01/17/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	01/09/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/02/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/06/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/06/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/02/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/02/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/02/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/02/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/02/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	01/08/14	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	01/08/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	01/08/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	01/08/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/27/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	01/31/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	01/31/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	01/27/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	01/09/14	*		*		*		*		

Notes:

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

	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 ¹	
Main	31	4	10	#1 Sanitary Pump	January 1-31	Pump being rehabbed	April 2014	
Eastside	24	2	4	None				
Poplar Point	24	2	3	#1 Screen	January 1-31	Screen being rehabbed	June 2014	
Potomac	31	4	5	#2 Sanitary Pump	January 1-31	Pump being rehabbed	June 2014	
		, ļ	i	#3 Screen	January 1-31	Screen being rehabbed	June 2014	

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

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.

		Type of Preventive Maintenance							
Pumping Station	Date Performed	$Performed^{I}$	Comments						
Main	1/15	Group A	Add oil, grease bearings and replace packing if needed.						
O St	1/15	Group A	Add oil, grease bearings and replace packing if needed.						
Eastside	1/15	Group A	Add oil, grease bearings and replace packing if needed.						
Poplar Point	1/15	Group A	Add oil, grease bearings and replace packing if needed.						
Potomac	1/15	Group A	Add oil, grease bearings and replace packing if needed.						
Rock Creek	1/15	Group A	Add oil, grease bearings and replace packing if needed.						
Upper Anacostia	1/15	Group A	Add oil, grease bearings and replace packing if needed.						
Earle Place	1/15	Group A	Add oil, grease bearings and replace packing if needed.						

 Table 2-4

 Pumping Stations – Preventive Maintenance

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

	Sanitary Pı	ımpage	Storm W	Storm Water/CSO Pumped To Anacostia River					
	Total Wastewater	Daily Average			Screenings Collected				
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$				
Main	2,018.80	65.12	N/A	N/A	N/A				
O St	144.80	4.67	N/A	N/A	Normal				
Eastside	260.19	8.39	N/A	N/A	N/A				
Poplar Point	617.85	19.93	N/A	N/A	N/A				
Potomac	3,827.20	123.46	N/A	N/A	N/A				
Rock Creek	181.67	5.86	N/A	N/A	N/A				
Upper Anacostia	153.13	4.94	N/A	N/A	N/A				
Earle Place	0.21	0.01	N/A	N/A	N/A				

Table 2-5Pumping Stations – Pumpage

Notes:

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

2.4 Northeast Boundary Swirl Facility

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

			¥		<u> </u>	
Date	# of	# of	Screens or Swirls			
Inspected	Screens	Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
1/9	1, 2 & 3	1, 2 & 3	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 Performed</i> ¹	Comments
1/9	Group A	

Notes:

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

	1 tor theast	Doulldary Dwi	Tracincy weev	ventiler operation	10
	Approx. Storm	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings
Date	$Duration (hrs)^{l}$	Volume (mg)	Volume (mg)	$Volume (mg)^l$	Volume (Cu. ft)
1/11/2014	5	23.8	23.8	0.0	56.0
1/11/2014	5	5.9	5.9	0.0	8.0

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

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 C:LTCP\DSS\2014-Q1\CSO Monthly Report January 2014.doc

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.

		D		Residual Chlorin	ne Test	E. Coli Tost Posults		
	Chlor/		sages	Kesults		E. Coll Test Results		
	Dechlor						Count	
	System	NaOCl	NaHSO3		Conc.		Per	
Date	Used?	(<i>mg/l</i>)	(<i>mg/l</i>)	Location	(<i>mg/l</i>)	Site	100ml	
N/A	Ves	5	2	Mix Chamber		Mix Chamber		
11/7	105	5	2	Anacostia River ¹		Anacostia River ¹		

 Table 2-9

 Northeast Boundary Swirl Facility – Disinfection Performance

Notes:

1. 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)	
N/A								

2.5 Inflatable Dams

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

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	1/27	No	N/A	N/A	N/A
14 - West	1/27	No	N/A	N/A	N/A
15	1/27	No	N/A	N/A	N/A
15A	1/27	No	N/A	N/A	N/A
16 - East	1/27	No	N/A	N/A	N/A
16 - West	1/27	No	N/A	N/A	N/A
24 - North	1/27	No	N/A	N/A	N/A
24 - Middle	1/27	No	N/A	N/A	N/A
24 - South	1/27	No	N/A	N/A	N/A
34	1/27	No	N/A	N/A	N/A
35	1/27	No	N/A	N/A	N/A
52	1/27	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
14 (E & W)	None	N/A
15	1/11	3 mins
15A	1/11	2 mins
16 (E & W)	None	N/A
24	1/11	8 mins
34	None	N/A
35	1/11	19 mins
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow
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 combined sewer overflow during January 2014.

Sanitary Sewer Overflows:

Location	Suitland Parkway near Irving Street, SE.
	One of DC Water contractors inspecting storm sewer outfalls observed sanitary waste in the outfall near Harford Street and 22^{nd} Street SE. A craw dispatched to investigate found sanitary sewer seeping through
Cause	the concrete encasement on the 12 inch sanitary sewer.
Date/ Time Discovered	January 15, 2014 at approximately 1:30 PM.
Action Taken	The crew used quick setting cement to stop the leak.
Date/Time Discharge Ceased	January 15, 2014 at 11:30 pm.
Estimated Volume	Approximately 600 gallons.
Did Overflow Reach Receiving water?	Yes. The Anacostia River
	Corinthian Contractors stopped the leaking sewer and installed a by-pass pumping system. To determine what additional steps may be needed to prevent recurrence at this location, we have requested our Department of Engineering and Technical Services – Planning Section to prioritize the rehabilitation
Action taken to prevent reoccurrence	needed of sewers near this location in the overall sewer service life restoration program.

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

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

				Inspections	7			Clea	ining		
				Total Anacostia	Total Anacostia	CBs Clea	ned Thru	CB's C	Cleaned	Total CB	s Cleaned
			CD ·	CBs	CBs	Last N	<i>Ionth</i>	This l	Month	This Yea	r to Date
		CRs in	CBs in Anacostia	Inspected Once this	Inspected Twice this						
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	0	0	2782	2189	5	0	5	0
2	4,714	4,112	2,316	465	0	7001	5145	898	826	898	826
3	3,555	461	-	0	0	6182	1064	48	0	48	0
4	2,782	1,985	159	0	0	5197	3282	41	12	41	12
5	2,167	1,035	1,035	0	0	5166	3012	0	0	0	0
6	1,783	1,594	1,594	91	0	4787	2616	91	91	91	91
7	2,313	-	-	0	0	3982	0	85	0	85	0
8	1,278	116	116	116	0	1319	475	440	116	440	116
WASA Subtotal	20,183	10,871	5,954	672	0	36,416	17,783	1,608	1,045	1,608	1,045
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871	5,954	672	0			1,608	1,045	1,608	1,045
% Cleaned/Inspected to Date				11%	0%					8%	9%

3.2 BMP Demonstration Projects

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

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

Table 3-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	1/24/2014	Good	None	None	None
Bar Rack CSO 040	1/2/2014	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	1/2/2014	Good	None	Routine Cleaning	(1)

Notes:

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

3.3 Anacostia River Floating Debris Removal Program

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	15
Reason not Operating	High winds, low tide, and PM/repair service.
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	2 Skimmers
Dates	B28: 1/21 - 1/31 B29: 1/1 - 1/31 B32: 1/13 - 1/31
Reason	B28: Wing screen jammed.
	B29: Leaking propulsion pod.
	B32: Engine oil cap blowing off.
Plan to Restore to Service	B28: Waiting for parts. Service return - Mid Feb. 2014
	B29: Waiting for testing.
	B32: Waiting for parts. Service return - Mid Feb. 2014.
Volume Material Collected	20 Tons.
Nature of Material	Bottles, cans, natural debris and plastics.

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

3.4 CSS Litter Control

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

Status: no activities this month.

4. MONITORING

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

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

Table 4-1Bar Racks at Main & O Street Pumping Stations

Inspector: Claude Price

		Date	Condition			Work Performed
Pumping Station	Inspector			Needs	Work Needed	or Schedule for
		Inspecteu	Good	Work		Completion
Bar Racks at O						
Street Storm	СР	1/2	Х			
Pumps (CSO 010)						
Bar Racks at Main						
Storm Pumps	СР	1/2	Х			
(CSO 011)						

4.2 Rain Data

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

Date	Date Bryant Street Pumping Station		Rock Creek Pumping Station
1/1/2014	0	0	0
1/2/2014	0.03	0.04	0.06
1/3/2014	0	0	0
1/4/2014	0	0	0
1/5/2014	0.22	0.21	0.2
1/6/2014	0.18	0.13	0.2
1/7/2014	0	0	0
1/8/2014	0	0	0
1/9/2014	0	0	0
1/10/2014	0.43	0.54	0.53
1/11/2014	0.72	0.67	0.78
1/12/2014	0	0	0
1/13/2014	0	0	0
1/14/2014	0.27	0.31	0.27
1/15/2014	0	0.01	0.01
1/16/2014	0	0	0
1/17/2014	0	0	0
1/18/2014	0	0	0
1/19/2014	0	0	0
1/20/2014	0	0	0
1/21/2014	0	0	0
1/22/2014	0	0	0
1/23/2014	0.02	0.01	0.01
1/24/2014	0	0	0
1/25/2014	0	0	0
1/26/2014	0	0	0
1/27/2014	0	0	0
1/28/2014	0	0	0
1/29/2014	0	0	0
1/30/2014	0	0	0
1/31/2014	0	0	0
TOTAL	1.87	1.92	2.06



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

Monthly Operations Report For Combined Sewer System Month: February 2014

Prepared By:

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

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

Monthly Operations Report for Combined Sewer System Month: February 2014

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1. INTRODUCTION

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

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

2. OPERATION AND 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

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/06/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/06/14	*			
5	Poplar Point Pumping Station	004	02/05/14	*			
6	Chicago Street and Railroad Ave, SE	005	02/05/14	*			
7	W Street and Railroad Ave, SE	005	02/05/14	*			
8^1	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	02/12/14	*			
11	"O" Street Pumping Station	011(a)	02/05/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/05/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	02/25/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	02/25/14	*			
15	South Capitol and E Streets	010	02/13/14	*			
15a	Half and L Streets, SE	010	02/13/14	*			
15b	South Capitol and I Streets	010	02/09/14	*			
15c	South Capitol and I Streets	010	02/09/14	*			
16	North of Main Sewage Pumping Station	012	02/05/14	*			
17	4 th and N Streets, SE, Both Extended	012	N/A				Construction for
17.	V. Street between C th Street and 7 th Street SE	013	02/10/14	*			Clean Rivers Project
1/a	K Street between 6 Street and 7 Street, SE	013	02/19/14	т *			
18	o th and M Streets, SE	014	02/04/14	*			
19	9 th and M Streets, SE	015	02/05/14	*			
19a	9 ^{er} and M Streets, SE	015	02/08/14	*			~
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	02/08/14	*			
21	14 th and M Streets, SE		N/A				Construction for
		017					Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	02/19/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	02/19/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/19/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
22d	Kentucky Ave and Potomac Street, SE	018	02/20/14	*			
22e	14 th Street and Kentucky Ave, SE	018	02/07/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	02/12/14	*			
24a	East Capitol St, west of RFK stadium	019	02/07/14	*			
28	21 st and Constitution Ave, NW	020	02/05/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	02/05/14	*			
30	17 th and D Streets, NW	020	02/07/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	02/07/14	*			
33	10 th and F Streets, NW	020	02/07/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	02/07/14	*			
34a	23 rd Street near C Street, NW	020	02/05/14	*			
35	Northeast of Roosevelt Bridge, NW	021	02/05/14	*			
36	27 th and I Streets, NW	022	02/12/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/12/14	*			
36b	19 th and L Streets, NW	022, 034	02/07/14	*			
36d	17 th and L Streets, NW	022, 034	02/07/14	*			
36g	18 th and M Streets, NW	022, 034	02/07/14	*			
36h	18 th and M Streets, NW	022, 034	02/07/14	*			
37	27 th and Eye Streets, NW	022	02/12/14	*			
38	29 th and K Streets, NW	024	02/04/14	*			
38a	30 th Street, south of K Street, NW	024	02/04/14	*			
39a	30 th and K Streets, NW	024	02/19/14	*			
39b	30 th and K Streets, NW	024	02/19/14	*			
41b	31 st and K Streets, NW	025	02/19/14	*			
41c	31 st and K Streets, NW	025	02/19/14	*			
42	Wisconsin Ave and K Street, NW	026	02/19/14	*			
43	Potomac and Water Streets, NW	027	02/19/14	*			
43a	Potomac and Water Streets, NW	027	02/19/14	*			
44	Water Street, west of Potomac St, NW	027	02/19/14	*			
45	36 th and M Streets, NW	028	02/04/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/04/14	*			
47	38 th Street and Reservoir Road, NW	029	02/04/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
47a	37 th and T Streets, NW	029	02/04/14	*			
47b	37 th and T Streets, NW	029	02/04/14	*			
47c	38 th and W Streets, NW	029	02/04/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	02/25/14	*			
51	N Street Extended, west of 25 th Street, NW	033	02/25/14	*			
52	22 nd Street between M and N Streets, NW	034	02/20/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	02/07/14	*			
53	22 nd and M Streets, NW	022, 034	02/25/14	*			
53a	22 nd and M Streets, NW	022, 034	02/25/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	02/25/14	*			
53c	L and 22 nd Streets, NW	022	02/25/14	*			
54	23 rd and O Streets, NW	034	02/07/14	*			
55	22 nd Street, south of Q Street, NW	035	02/07/14	*			
55a	22 nd Street, south of Q Street, NW	035	02/07/14	*			
56	23 rd and Massachusetts Ave, NW	036	02/07/14	*			
57	23 rd Street, south of Q Street, NW	036	02/07/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/06/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/06/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/06/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/06/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/06/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	02/07/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/07/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/07/14	*			
66	Adams Mill Road and Lamont Street, NW	045	02/07/14	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	02/06/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/06/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/06/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	02/04/14	*			
70i	5 th and Quackenbos Streets, NW	049	02/12/14	*			

Structure		Associated NPDES	Date	ate Condition			
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
71	28 th Street, west of Rock Creek Parkway, NW	050	02/04/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/04/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/04/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/04/14	*			
74^{1}	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/25/14	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	02/28/14	*			
84a	26 th and P Streets, NW	060	02/28/14	*			

Notes:

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

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

2.2 **Outfalls, Tide Gates and CSO Signs**

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

Outfalls and Tide Gates											
			0	utfall	Tide	Gate	Tide Gate				
			Cor	ıdition	Pres	ent?	Cor	ıdition	CS	O Sign	-
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	02/25/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/06/14	*		*		*		*		
006^{1}	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	02/06/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/04/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/04/14	*			*			*		
011	Main Sewage Pumping Station, SE	02/04/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/04/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/04/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	02/04/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/04/14	*			*			*		
016	12th and O Streets, SE	02/20/14	*		*		*		*		
017	M and Water Street, SE	02/20/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	02/20/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	02/20/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	02/20/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/20/14	*			*			*		
022	Rock Creek Parkway and G St., NW	02/20/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	02/20/14	*		*		*		*		
025	South of 31st and K Streets, NW	02/20/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	02/20/14	*		*		*		*		
027	33 rd and Water Sts., NW	02/20/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/20/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	02/20/14	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

Table 2-2

			01	utfall	Tide	Gate	Tide	Tide Gate		0.5	
NDDEC		Data	Con	Neede	Pres	ent?	Con	Needa	CS	U Sign	
Outfall	Location	Dale Inspected	ОК	Work	Yes	No	OK	Work	ОК	Work	Notes Work Needed or Performed
032	26th and M Street NW	02/25/14	*	WOIK	105	*	OR	WOIK	*	WOIK	noies, work needed of 1 erjornica
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/25/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/25/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	02/20/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	02/20/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW	02/06/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/06/14	*		*		*		*		
	Aligned with Biltmore Rd., between Connecticut Ave and	02/06/14									
040	Ellington Bridge.		*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/27/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/27/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/27/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/27/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	02/13/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/13/14	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	02/13/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	02/13/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	02/13/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/13/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	02/06/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	02/27/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	02/27/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
0581	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	02/20/14	*		*		*		*		

Notes: 1. Outfall no longer functions as a combined sewer outfall.
2.3 **Pumping Stations**

Pumping station operations are summarized in the table below.

	T uniping Stations 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 ¹			
Main	28	4	10	#1 Sanitary Pump	February 1-28	Pump being rehabbed	April 2014			
Eastside	19	2	4	#1 Screen	February 21-28	Screen being rehabbed	May 2014			
Poplar Point	19	2	3	#1 Screen	February 1-28	Screen being rehabbed	June 2014			
Potomac	28	4	5	#2 Sanitary Pump	February 1-28	Pump being rehabbed	June 2014			
				#3 Screen	February 1-28	Screen being rehabbed	June 2014			

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

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.

		1 8	
		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	2/17	Group A	Add oil, grease bearings and replace packing if needed.
O St	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	2/17	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

			·····	8 -	
	Sanitary Pi	umpage	Storm V	Vater/CSO Pumped To	Anacostia River
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$
Main	1,628.30	58.15	N/A	N/A	N/A
O St	119.71	4.28	2/4	27.72	Normal
Eastside	307.50	10.98	N/A	N/A	N/A
Poplar Point	611.73	21.85	N/A	N/A	N/A
Potomac	3,937.20	140.61	N/A	N/A	N/A
Rock Creek	168.33	6.01	N/A	N/A	N/A
Upper Anacostia	141.67	5.06	N/A	N/A	N/A
Earle Place	0.23	0.01	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:

			*		<u> </u>	
Date	# of	# of	Screens or Swirls			
Inspected	Screens	Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
2/4	1, 2 & 3	1, 2 & 3	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 Performed</i> ¹	Comments
2/4	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

			-		
	Approx. Storm	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings
Date	$Duration (hrs)^{l}$	Volume (mg)	Volume (mg)	$Volume (mg)^l$	Volume (Cu. ft)
2/3/2014	11	51.6	51.6	0.0	84
2/3/2014	3	1.5	1.5	0.0	0
2/5/2014	5	3.3	3.3	0.0	12

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

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.

				Residual Chlorir	ie Test		
	Chlor/	Dosages		Results		E. Coli Test Results	
	Dechlor						Count
	System	NaOCl	NaHSO3		Conc.		Per
Date	Used?	(<i>mg/l</i>)	(<i>mg/l</i>)	Location	(<i>mg/l</i>)	Site	100ml
N/A	Ves	5	2	Mix Chamber		Mix Chamber	
	105	5	2	Anacostia River ¹		Anacostia River ¹	

 Table 2-9

 Northeast Boundary Swirl Facility – Disinfection Performance

Notes:

1. River: River Outfall

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)			
N/A										

2.5 Inflatable Dams

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

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	2/28	No	N/A	N/A	N/A
14 - West	2/28	No	N/A	N/A	N/A
15	2/27	No	N/A	N/A	N/A
15A	2/27	No	N/A	N/A	N/A
16 - East	2/28	No	N/A	N/A	N/A
16 - West	2/28	No	N/A	N/A	N/A
24 - North	2/28	No	N/A	N/A	N/A
24 - Middle	2/28	No	N/A	N/A	N/A
24 - South	2/28	No	N/A	N/A	N/A
34	2/28	No	N/A	N/A	N/A
35	2/28	No	N/A	N/A	N/A
52	2/28	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
14 (E & W)	None	N/A
15	2/3	13 mins
15A	2/3	2hrs, 30 mins
16 (E & W)	2/3	8 hrs,38 mins
24	2/3	46 mins
34	None	N/A
35	2/3	2 hrs, 19 mins
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow
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 combined sewer overflow during February 2014.

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

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

				Inspections	5			Clea	ning		
				Total Anacostia	Total Anacostia	CBs Clea	ned Thru	CB's (Tleaned	Total CB	s Cleaned
			~~ .	CBs	CBs	Last M	<i>Aonth</i>	This l	Month	This Yea	r to Date
		CRs in	CBs in	Inspected	Inspected Twice this						
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	0	0	5	0	0	0	5	0
2	4,714	4,112	2,316	465	0	898	826	0	0	898	826
3	3.555	461	_	0	0	48	0	19	13	67	13
1	2 782	1 085	150	3	0	<i>/</i> 1	12	25	25	66	37
4	2,782	1,905	139		0	41	12	23	23	00	57
5	2,167	1,035	1,035	26	0	0	0	52	26	52	26
6	1,783	1,594	1,594	502	0	91	91	460	411	551	502
7	2,313	-	-	0	0	85	0	156	0	241	0
8	1,278	116	116	116	0	440	116	964	162	1404	278
WASA Subtotal	20,183	10,871	5,954	1,112	0	1,608	1,045	1,676	637	3,284	1,682
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871	5,954	1,112	0			1,676	637	3,284	1,682
% Cleaned/Inspected to Date				19%	0%					16%	15%

3.2 BMP Demonstration Projects

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

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

Table 3-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	2/25/2014	Good	None	None	None
Bar Rack CSO 040	2/06/2014	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	2/27/2014	Good	None	Routine Cleaning	(1)

Notes:

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

3.3 Anacostia River Floating Debris Removal Program

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	19
Days not Operating	18
Reason not Operating	High winds, low tide, and PM/repair service.
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	2 Skimmers
Dates	B28: 2/1 - 2/28 B29: 2/1 - 2/25 B32: 2/1 - 2/28
Reason	B28: Wing screen jammed.
	B29: Waiting to be tested. Tow boat engine wouldn't start.
	B32: Engine oil cap blowing off.
Plan to Restore to Service	B28: Replaced broken shaft and clear plastic strips. ETR
	unknown.
	B29: Satisfactory test on 2/25 after tow boat repaired.
	B32: Oil cap on order. ETR early March 2014.
Volume Material Collected	5 Tons.
Nature of Material	Bottles, cans, natural debris and plastics.

Table 3-3	
Anacostia River Floating Debris Removal Program - Summ	ary

3.4 CSS Litter Control

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

Status: no activities this month.

4. MONITORING

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

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

Table 4-1Bar Racks at Main & O Street Pumping Stations

Inspector: Clarence McCray

		Data	Cond	lition		Work Performed
Pumping Station	Inspector	Inspected		Needs	Work Needed	or Schedule for
		Inspecteu	Good	Work		Completion
Bar Racks at O						
Street Storm	CM	2/14	Х			
Pumps (CSO 010)						
Bar Racks at Main						
Storm Pumps	СМ	2/14	Х			
(CSO 011)						

4.2 Rain Data

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

Date	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station
2/1/2014	0	0	0
2/2/2014	0	0	0
2/3/2014	1.32	1.4	1.33
2/4/2014	0.04	0	0.01
2/5/2014	0.34	0.32	0.18
2/6/2014	0	0	0
2/7/2014	0	0	0
2/8/2014	0	0	0
2/9/2014	0	0	0
2/10/2014	0	0	0
2/11/2014	0	0	0
2/12/2014	0	0	0
2/13/2014	0.53	0.92	0.95
2/14/2014	0.29	0.01	0.07
2/15/2014	14 0.09 0.08		0.1
2/16/2014	0	0	0
2/17/2014	0	0	0
2/18/2014	0.01	0.02	0.02
2/19/2014	0.09	0.09	0.1
2/20/2014	0	0	0
2/21/2014	0.09	0.03	0.06
2/22/2014	0	0	0
2/23/2014	0	0	0
2/24/2014	0	0	0
2/25/2014	0.08	0.07	0.07
2/26/2014	0.1	0.06	0.08
2/27/2014	0	0	0
2/28/2014	0	0	0
TOTAL	2.98	3	2.97



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

Monthly Operations Report For Combined Sewer System Month: March 2014

Prepared By: District of Columbia Water and Sewer Authority

Department of Sewer Services Washington, D.C. 20003

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

Monthly Operations Report for Combined Sewer System Month: March 2014

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1. INTRODUCTION

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

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

2. OPERATION AND 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							

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/27/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/27/14	*			
5	Poplar Point Pumping Station	004	03/20/14	*			
6	Chicago Street and Railroad Ave, SE	005	03/07/14	*			
7	W Street and Railroad Ave, SE	005	03/07/14	*			
8^1	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	03/28/14	*			
11	"O" Street Pumping Station	011(a)	03/20/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/20/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	03/19/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	03/19/14	*			
15	South Capitol and E Streets	010	03/20/14	*			
15a	Half and L Streets, SE	010	03/20/14	*			
15b	South Capitol and I Streets	010	03/12/14	*			
15c	South Capitol and I Streets	010	03/12/14	*			
16	North of Main Sewage Pumping Station	012	03/20/14	*			
17	4 th and N Streets, SE, Both Extended		03/12/14				Construction for
	reason with a section of a section of the section o	013					Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	03/20/14	*			
18	6 th and M Streets, SE	014	03/10/14	*			
19	9 th and M Streets, SE	015	03/11/14	*			
19a	9 th and M Streets, SE	015	03/11/14	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	03/26/14	*			
21	14 th and M Streets, SE		N/A				Construction for
	,	017					Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	03/21/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	03/21/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/21/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
22d	Kentucky Ave and Potomac Street, SE	018	03/21/14	*			
22e	14 th Street and Kentucky Ave, SE	018	03/18/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	03/18/14	*			
24a	East Capitol St, west of RFK stadium	019	03/06/14	*			
28	21 st and Constitution Ave, NW	020	03/06/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	03/21/14	*			
30	17 th and D Streets, NW	020	03/21/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	03/21/14	*			
33	10 th and F Streets, NW	020	03/21/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	03/11/14	*			
34a	23 rd Street near C Street, NW	020	03/18/14	*			
35	Northeast of Roosevelt Bridge, NW	021	03/20/14	*			
36	27 th and I Streets, NW	022	03/26/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/26/14	*			
36b	19 th and L Streets, NW	022, 034	03/28/14	*			
36d	17 th and L Streets, NW	022, 034	03/28/14	*			
36g	18 th and M Streets, NW	022, 034	03/28/14	*			
36h	18 th and M Streets, NW	022, 034	03/28/14	*			
37	27 th and Eye Streets, NW	022	03/26/14	*			
38	29 th and K Streets, NW	024	03/21/14	*			
38a	30 th Street, south of K Street, NW	024	03/21/14	*			
39a	30 th and K Streets, NW	024	03/21/14	*			
39b	30 th and K Streets, NW	024	03/21/14	*			
41b	31 st and K Streets, NW	025	03/21/14	*			
41c	31 st and K Streets, NW	025	03/21/14	*			
42	Wisconsin Ave and K Street, NW	026	03/21/14	*			
43	Potomac and Water Streets, NW	027	03/26/14	*			
43a	Potomac and Water Streets, NW	027	03/26/14	*			
44	Water Street, west of Potomac St, NW	027	03/26/14	*			
45	36 th and M Streets, NW	028	03/10/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/10/14	*			
47	38 th Street and Reservoir Road, NW	029	03/10/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
47a	37 th and T Streets, NW	029	03/10/14	*			
47b	37 th and T Streets, NW	029	03/10/14	*			
47c	38 th and W Streets, NW	029	03/10/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	03/19/14	*			
51	N Street Extended, west of 25 th Street, NW	033	03/19/14	*			
52	22 nd Street between M and N Streets, NW	034	03/26/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	03/26/14	*			
53	22 nd and M Streets, NW	022, 034	03/26/14	*			
53a	22 nd and M Streets, NW	022, 034	03/26/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	03/26/14	*			
53c	L and 22 nd Streets, NW	022	03/26/14	*			
54	23 rd and O Streets, NW	034	03/28/14	*			
55	22 nd Street, south of Q Street, NW	035	03/28/14	*			
55a	22 nd Street, south of Q Street, NW	035	03/28/14	*			
56	23 rd and Massachusetts Ave, NW	036	03/28/14	*			
57	23 rd Street, south of Q Street, NW	036	03/28/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/27/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/10/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/10/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/07/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/07/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	03/07/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/07/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/07/14	*			
66	Adams Mill Road and Lamont Street, NW	045	03/07/14	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	03/07/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/07/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/07/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	03/07/14	*			
70i	5 th and Quackenbos Streets, NW	049	03/10/14	*			

Structure		Associated NPDES	Date	Condition			
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
71	28 th Street, west of Rock Creek Parkway, NW	050	03/10/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/27/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/27/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/27/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/27/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	03/27/14	*			
84a	26 th and P Streets, NW	060	03/27/14	*			

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

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

2.2 **Outfalls, Tide Gates and CSO Signs**

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

	0	utfalls and	d Tid	le Gate	S						
			0	utfall	Tide	ide Gate Tide Gate					
			Cor	idition	Pres	ent?	Cor	idition	CS	O Sign	-
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	03/27/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/20/14	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	03/27/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/20/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/20/14	*			*			*		
011	Main Sewage Pumping Station, SE	03/20/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	03/20/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/20/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	03/20/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/20/14	*			*			*		
016	12th and O Streets, SE	03/20/14	*		*		*		*		
017	M and Water Street, SE	03/20/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	03/20/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	03/201/4	*			*			*		
020	Rock Creek Parkway and Independence, NW	03/28/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	03/20/14	*			*			*		
022	Rock Creek Parkway and G St., NW	03/20/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	03/06/14	*		*		*		*		
025	South of 31st and K Streets, NW	03/06/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	03/06/14	*		*		*		*		
027	33 rd and Water Sts., NW	03/06/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	03/06/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	03/06/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

Table 2-2

			Oi Cor	utfall	Tide	Gate	Tide	Tide Gate		O Sian	
NDDEC		Data	Con	Nooda	Pres	eni:	Con	Nooda	CS	V Sign	
Outfall	Location	Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes Work Needed or Performed
032	26th and M Street, NW.	03/19/14	*	11 OII	105	*	011	WOIN	*	WOIR	
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/19/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/28/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	03/20/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	03/20/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/27/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/10/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/10/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	03/20/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/20/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/20/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	03/20/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/20/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	03/07/14	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	03/07/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	03/07/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	03/07/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/27/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	03/27/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	03/27/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	03/27/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	03/20/14	*		*		*		*		

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

				I uniping Station	is – mspections	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 ¹
Main	31	4	10	#1 Sanitary Pump	March 1-31	Pump being rehabbed	April 2014
Eastside	24	2	4	#1 Screen	March 1-31	Screen being rehabbed	May 2014
Poplar Point	24	2	3	#1 Screen	March 1-31	Screen being rehabbed	June 2014
Potomac	31	4	5	#2 Sanitary Pump	March 1-31	Pump being rehabbed	June 2014
				#3 Screen	March 1-31	Screen being rehabbed	June 2014
				#2 Screen	March 31	Screen being rehabbed	May 2014

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

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.

		1 8	
		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	3/10	Group A	Add oil, grease bearings and replace packing if needed.
O St	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	3/10	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

			·····	8-		
	Sanitary Pi	ımpage	Storm V	Storm Water/CSO Pumped To Anacostia River		
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	1,785.00	57.58	N/A	N/A	N/A	
O St	133.88	4.32	3/29	14.2	Normal	
			3/30	57.1	Normal	
Eastside	305.06	9.84	N/A	N/A	N/A	
Poplar Point	669.78	21.61	N/A	N/A	N/A	
Potomac	4,062.80	131.06	N/A	N/A	N/A	
Rock Creek	201.67	6.51	N/A	N/A	N/A	
Upper Anacostia	151.88	4.90	N/A	N/A	N/A	
Earle Place	0.26	0.01	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:

Date	# of	# of	Screens or Swirls			
Inspected	Screens	Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
3/11	1, 2 & 3	1, 2 & 3	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 Performed</i> ¹	Comments
3/11	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

		-			
	Approx. Storm	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings
Date	$Duration (hrs)^{l}$	Volume (mg)	Volume (mg)	$Volume (mg)^2$	Volume (Cu. ft)
3/3/2014	14.5	15.2	15.2	0.0	24
3/19/2014	16.5	3.7	3.7	0.0	20
3/29/2014	8.25	20.0	4.3	15.7	80
3/30/2014	1.5	0.8	0.8	0.0	0
3/30/2014	6.5	15.3	15.3	0.0	72
3/30/2014	8	27.3	3.9	23.5	88
3/31/2014	2.5	1.3	1.3	0.0	0

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

- 1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.
- 2. Volume approximated due malfunction of ESIRS 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.

				Residual Chlorine Test			
	Chlor/	Do	sages	Results		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
3/29 Yes	5	2	Mix Chamber	0.1	Mix Chamber	<10	
	105	5	2	Anacostia River ¹	N/A^2	Anacostia River ¹	N/A^2
3/30	Yes	5	2	Mix Chamber	0.2	Mix Chamber	<10
5/50				Anacostia River ¹	N/A^2	Anacostia River ¹	N/A^2

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

Notes:

1. River: River Outfall

2. During the March 29th and 30th swirl events the crew discovered the sampling pump was inoperable and the crew was unable to retrieve the samples of the effluent outfall to the Anacostia River location due to safety concerns. The repairs to the sample pump should be completed in April. Further, management is also incorporating a revision to the standard operating procedures for Anacostia River effluent sampling to enable sampling during events when the sampling pump is inoperable.

 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)	
N/A ¹								

 During the March 29th and 30th swirl events the crew discovered the sampling pump was inoperable and the crew was unable to retrieve the samples of the effluent outfall to the Anacostia River location due to safety concerns. The repairs to the sample pump should be completed in April. Further, management is also incorporating a revision to the standard operating procedures for Anacostia River effluent sampling to enable sampling during events when the sampling pump is inoperable.

2.5 Inflatable Dams

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

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	3/20	No	N/A	N/A	N/A
14 - West	3/20	No	N/A	N/A	N/A
15	3/20	No	N/A	N/A	N/A
15A	3/20	No	N/A	N/A	N/A
16 - East	3/20	No	N/A	N/A	N/A
16 - West	3/20	No	N/A	N/A	N/A
24 - North	3/20	No	N/A	N/A	N/A
24 - Middle	3/20	No	N/A	N/A	N/A
24 - South	3/20	No	N/A	N/A	N/A
34	3/20	No	N/A	N/A	N/A
35	3/20	No	N/A	N/A	N/A
52	3/20	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
14 (E & W)	None	N/A
15	3/29	2 mins
15A	$3/24^{1}$	57 mins
	3/29	1 hr, 36 mins
	3/30	3hrs, 52 mins
16 (E & W)	None	N/A
24	None	N/A
34	None	N/A
35	3/30	49 mins
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow
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

1. During maintenance on the Main Pumping Station on March 24, 2014, flow to the Station was inadvertently shut off. As a result, sewerage filled the B-St/New Jersey Sewer causing the inflatable dam at Structure 15a to deflate for 57 minutes. This event, in turn, caused sewerage to enter the B-St/New Jersey Relief Sewer where it remained until the rain events of March 29th and 30th, when it was discharged with other Combined Sewer Flow through CSO outfall # 11a. In order to prevent recurrence of this event, the operator has received additional training from his supervisor on how to recognize and quickly respond to similar situations.
3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during March 2014.

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

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

			Inspections			Cleaning						
				Total Total Anacostia Anacostia		CBs Clea	ned Thru	CB's Cleaned		Total CBs	s Cleaned	
			CDa in	CBs	CBs Lucrosofted	Last N	<u>A</u> onth	This 1	This Month		This Year to Date	
		CRs in	CBs in Anacostia	Inspectea Once this	Inspectea Twice this							
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS	Total	In CSS	Total	In CSS	
1	1,591	1,568	734	38	0	5	0	108	82	113	82	
2	4,714	4,112	2,316	490	0	898	826	71	44	969	870	
3	3,555	461	-	0	0	67	13	204	35	271	48	
4	2,782	1,985	159	8	0	66	37	93	70	159	107	
5	2167	1.025	1.025	106	0	50	26	20	20	122	100	
3	2,107	1,055	1,055	100	U	52	20	80	80	132	100	
6	1,783	1,594	1,594	917	0	551	502	465	415	1016	917	
7	2,313	-	-	0	0	241	0	304	0	545	0	
8	1,278	116	116	116	0	1404	278	444	145	1848	423	
WASA Subtotal	20,183	10,871	5,954	1,675	0	3,284	1,682	1,769	871	5,053	2,553	
DDOT (via VMS) Subtotal												
Grand Total	20,183	10,871	5,954	1,675	0					5,053	2,553	
% Cleaned/Inspected to Date				28%	0%					25%	23%	

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3.2 BMP Demonstration Projects

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

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

Table 3-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	3/14/2014	Good	Replace nets	Replaced nets	150 pounds
Bar Rack CSO 040	3/10/2014	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	3/20/2014	Good	None	Routine Cleaning	(1)

Notes:

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

3.3 Anacostia River Floating Debris Removal Program

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	13
Reason not Operating	High winds, low tide, and PM/repair service.
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	2 Skimmers
Dates	B28: 3/1 - 3/20 B29: 3/14 - 3/31 B32: 3/1 - 3/31
Reason	B28: Starboard wing screen jammed.
	B29: Front assembly catching when raised.
	B32: Starboard propulsion pod leaking hydraulic fluid.
Plan to Restore to Service	B28: Returned to operation on 3/20.
	B29: Fleet troubleshooting. ETR unknown.
	B32: Propulsion pod removed for repairs. ETR April 2014.
Volume Material Collected	5 Tons.
Nature of Material	Bottles, cans, natural debris and plastics.

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

3.4 CSS Litter Control

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

Status: no activities this month.

4. MONITORING

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

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

Table 4-1Bar Racks at Main & O Street Pumping Stations

Inspector: Gregory Stephens

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
				Needs	Work Needed	or Schedule for
			Good	Work		Completion
Bar Racks at O						
Street Storm	GS	3/24	Х			
Pumps (CSO 010)						
Bar Racks at Main						
Storm Pumps	GS	3/24	Х			
(CSO 011)						

4.2 Rain Data

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

Data	Bryant Street	Main Pumping	Rock Creek		
Date	Pumping Station	Station	Pumping Station		
3/1/2014	0	0	0		
3/2/2014	0.2	0.22	0.24		
3/3/2014	0.19	0.18	0.21		
3/4/2014	0.27	0.23	0.15		
3/5/2014	0.1	0.11	0.06		
3/6/2014	0	0	0		
3/7/2014	0	0	0		
3/8/2014	0	0	0		
3/9/2014	0	0	0		
3/10/2014	0	0	0		
3/11/2014	0	0	0		
3/12/2014	0.01	0.03	0.03		
3/13/2014	0	0	0		
3/14/2014	0	0	0		
3/15/2014	0	0	0		
3/16/2014	0	0	0		
3/17/2014	0	0	0		
3/18/2014	0.07	0.03	0.16		
3/19/2014	0.23	0.2	0.23		
3/20/2014	0	0	0.01		
3/21/2014	0	0	0		
3/22/2014	0	0	0		
3/23/2014	0	0	0		
3/24/2014	0	0	0		
3/25/2014	0.21	0.18	0.17		
3/26/2014	0	0	0		
3/27/2014	0	0	0		
3/28/2014	0	0.01	0.01		
3/29/2014	0.71	0.83	0.82		
3/30/2014	1.16	1	1.4		
3/31/2014	0	0	0		
TOTAL	3.15	3.02	3.49		

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District of Columbia Water and Sewer Authority

Combined Sewer System Model Results Period: January, February, and March 2014 SCENARIO: Y2014_Q1, produced April 11, 2014

				— • •					
			CSO	Total		Maximum	Minimum		
		Number of	Overflow	Duration of	Avg Duration	Duration of	Duration of		
		Overflows	Volume	Overflow	of Overflow	Overflow	Overflow		
NPDES No.	Description	(Occurrences)	(mg)	(hrs)	(hrs)	(hrs)	(hrs)		
Anacostia CSC	s								
005	Chicago St and Railroad Station SE	12	2.11	54.50	4.54	17.75	0.25		
	Good Hope Road, West of Nichols	separated							
006	Ave.,SE		36parateu						
007	13 th Street and Ridge Place,SE	5	0.42	5.75	1.15	3.75	0.25		
	2nd Street, 300 feet North of N Place,								
009	SE	10	0.75	16.25	1.63	5.75	0.25		
	O Street SewagePumping Station, SE								
010	(pumped Overflow)	5	12.19	3.25	0.65	1.25	0.25		
	South of Main Sewage Pumping								
011	Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00		
	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)	1	0.01	0.25	0.25	0.25	0.25		
013	4th and N Streets, SE	9	0.88	19.50	2.17	6.50	0.75		
014	6th and M Streets, SE	5	1.20	10.25	2.05	6.50	0.25		
015	9th and M Streets, SE	4	0.01	4.75	1.19	3.50	0.25		
016	12th and M Streets. SE	1	0.43	3.75	3.75	3.75	3.75		
017	14th and M Streets, SE	8	4.33	35.75	4.47	16.50	0.50		
-	Barney Circle and Pennsylvania Ave.								
018	SE	4	1.46	9.25	2.31	5.25	1.00		
019	Northeast Boundary - Swirl Effluent	4	91.33	40.25	10.06	16.75	3.25		
019	Northeast Bound, - Swirl Bypass	0	0.00	0.00	0.00	0.00	0.00		
	SUBTOTAL	-	115.13						
Potomac CSOs	i								
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00		
	23rd Street. North of Constitution Ave.								
020	NW (Easby Point)	1	1.38	4.00	4.00	4.00	4.00		
021	Northeast of Roosevelt Bridge, NW	4	21.54	8.00	2.00	4.75	0.25		
022	27th and K Streets, NW	6	0.16	9.75	1.63	5 25	0.25		
024	30th and K Streets, NW	4	1.37	9.75	2.44	5.25	0.25		
025	31st & K St NW	0	0.00	0.00	0.00	0.00	0.00		
026	Wisconsin Avenue and KSt NW	0	0.00	0.00	0.00	0.00	0.00		
020	Water Street West of Street NW	11	5 41	80.25	7 30	23 50	1 50		
028	36th and M Streets NW	7	0.53	17 75	2.54	6.00	0.25		
020	Canal Road 1000 feet east of Rock	'	0.00	17.75	2.04	0.00	0.25		
020	Creek NW	1	0.005	0.50	0.50	0.50	0.50		
023	SUBTOTAL	1	30 39	0.50	0.00	0.00	0.00		
	COBICIAL		30.33						
Rock Creek									
	Pennsylvania Avenue, Fast Rock								
031	Creek. NW			sepa	rated				
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00		
	N Street extendedwest of 25th	-							
033	Street NW	0	0.00	0.00	0.00	0.00	0.00		
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00		
035	22nd Street south of O Street NW	0	0.00	0.00	0.00	0.00	0.00		
036	22nd Street South of O Street, NW	2	0.00	3.75	1.88	3 50	0.00		
000	Northwest of Belmontand Rock Creek	2	0.012	5.75	1.00	0.00	0.25		
027	and Potomac Parkway			sepa	rated				
037	And Folloniac Farkway			1					
029	Kalarama Cirola NM	0	0.00	0.00	0.00	0.00	0.00		
038	Connecticut Avenue cost of Dect	U	0.00	0.00	0.00	0.00	0.00		
000		0		0.00	0.00	0.00	0.00		
039	Dilterene Otreet extended and a f	U	0.00	0.00	0.00	0.00	0.00		
0.10		<u> </u>	0.00	0.00	0.00	0.00	0.00		
040		U	0.00	0.00	0.00	0.00	0.00		
	Untario extended and Rock Creek	C C	0.00	0.00	0.00	0.00	0.00		
041		U	0.00	0.00	0.00	0.00	0.00		
	Harvard Street and RockCreek								
042	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00		

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results Period: January, February, and March 2014 SCENARIO: Y2014_Q1, produced April 11, 2014

	1						
			CSO	Total		Maximum	Minimum
		Number of	Overflow	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Volume	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	(mg)	(hrs)	(hrs)	(hrs)	(hrs)
	Adams Mill Road South of Irving						
043	Street, NW	0	0.00	0.00	0.00	0.00	0.00
	Kenyon Street and Adams Mill Road,						
044	NW	0	0.00	0.00	0.00	0.00	0.00
1	Adams Mill Road and Lamont Street,						
045	NW	0	0.00	0.00	0.00	0.00	0.00
	Park Road south of Piney Branch						
046	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	Ingleside Terrace extended and Piney						
047	Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
	Mt. Pleasant Street extended and						
048	Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	5	1.809	8.75	1.75	5.00	0.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
	Olive Street extended and Rock Creek						
051	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	O Street extended and Rock Creek						
052	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	O Street west of Rock Creek Parkway,			sena	rated		
053	NW			3644			
	West Side of Rock Creek300 ft. south						
054	of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
	Normanstone Drive extended west of						
056	Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
	28th Street extended west of Rock						
057	Creek, NW	2	0.05	3.25	1.63	1.75	1.50
	Connecticut Avenue and Rock Creek		•		rotod	•	
058	Parkway, NW			sepa	lateu		
060	P St and 26 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		1.87				
	TOTAL		147.39				

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