QUARTERLY OPERATIONS REPORT

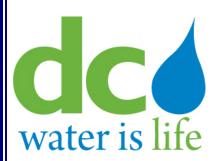
DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH 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: October 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: October 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 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 Number	Location	Associated NPDES Outfall			ondition Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/07/14	*			1 1
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/07/14	*			
5	Poplar Point Pumping Station	004	10/03/14	*			
6	Chicago Street and Railroad Ave, SE	005	10/03/14	*			
7	W Street and Railroad Ave, SE	005	10/03/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	10/03/14	*			
11	"O" Street Pumping Station	011(a)	10/31/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/31/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/07/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/07/14	*			
15	South Capitol and E Streets	010	10/31/14	*			
15a	Half and L Streets, SE	010	10/31/14	*			
15b	South Capitol and I Streets	010	10/20/14	*			
15c	South Capitol and I Streets	010	10/20/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	10/20/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	10/20/14	*			
18	6 th and M Streets, SE	014	10/01/14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	10/14/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	10/06/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/06/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/06/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/06/14	*			
22e	14 th Street and Kentucky Ave, SE	018	10/06/14	*			
23	Independence Ave, 21st Street, SE, Extended	019	10/14/14	*			
24a	East Capitol St, west of RFK stadium	019	10/14/14	*			
28	21st and Constitution Ave, NW	020	10/01/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/01/14	*			
30	17 th and D Streets, NW	020	10/01/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/01/14	*			
33	10 th and F Streets, NW	020	10/01/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/31/14	*			
34a	23 rd Street near C Street, NW	020	10/01/14	*			
35	Northeast of Roosevelt Bridge, NW	021	10/31/14	*			
36	27 th and I Streets, NW	022	10/03/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/03/14	*			
36b	19 th and L Streets, NW	022, 034	10/14/14	*			
36d	17 th and L Streets, NW	022, 034	10/14/14	*			
36g	18 th and M Streets, NW	022, 034	10/14/14	*			
36h	18 th and M Streets, NW	022, 034	10/14/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
37	27 th and Eye Streets, NW	022	10/03/14	*			
38	29 th and K Streets, NW	024	10/03/14	*			
38a	30 th Street, south of K Street, NW	024	10/03/14	*			
39a	30 th and K Streets, NW	024	10/03/14	*			
39b	30 th and K Streets, NW	024	10/03/14	*			
41b	31st and K Streets, NW	025	10/14/14	*			
41c	31st and K Streets, NW	025	10/14/14	*			
42	Wisconsin Ave and K Street, NW	026	10/14/14	*			
43	Potomac and Water Streets, NW	027	10/14/14	*			
43a	Potomac and Water Streets, NW	027	10/14/14	*			
44	Water Street, west of Potomac St, NW	027	10/14/14	*			
45	36 th and M Streets, NW	028	10/01/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/01/14	*			
47	38 th Street and Reservoir Road, NW	029	10/01/14	*			
47a	37 th and T Streets, NW	029	10/01/14	*			
47b	37 th and T Streets, NW	029	10/01/14	*			
47c	38 th and W Streets, NW	029	10/01/14	*			
49^{1}	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	10/07/14	*			
51	N Street Extended, west of 25 th Street, NW	033	10/07/14	*			
52	22 nd Street between M and N Streets, NW	034	10/01/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	10/01/14	*			
53	22 nd and M Streets, NW	022, 034	10/01/14	*			
53a	22 nd and M Streets, NW	022, 034	10/01/14	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	10/03/14	*			
53c	L and 22 nd Streets, NW	022	10/03/14	*			
54	23 rd and O Streets, NW	034	10/06/14	*			
55	22 nd Street, south of Q Street, NW	035	10/06/14	*			
55a	22 nd Street, south of Q Street, NW	035	10/06/14	*			
56	23 rd and Massachusetts Ave, NW	036	10/06/14	*			
57	23 rd Street, south of Q Street, NW	036	10/06/14	*			
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	10/02/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/02/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/02/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/08/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/08/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/08/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/08/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/08/14	*			
66	Adams Mill Road and Lamont Street, NW	045	10/08/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	10/08/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/08/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/08/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/08/14	*			
70i	5 th and Quackenbos Streets, NW	049	10/02/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/02/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/06/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/06/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/06/14	*			
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	10/17/14	*			
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	10/06/14	*			
84a	26 th and P Streets, NW	060	10/06/14	*			

- 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.

Table 2-2 Outfalls and Tide Gates

		Outfall Tide Gate Tide Gat Condition Present? Conditio									
		_	Con		Pres	ent?	Con	dition	CS	O Sign	
NPDES		Date	OV	Needs	37	NT.	OV	Needs	OK	Needs	N. WIN II D.C. I
Outfall	Location	<i>Inspected</i> 10/07/14	OK	Work	Yes *	No	OK *	Work	OK *	Work	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW		*		*		*		*		
$\frac{005}{006^1}$	Across from Navy Yard, aligned with Parsons Ave., SE	10/02/14	т —		Ψ		Ψ		Ψ		
	Good Hope Road and Welsh Memorial Bridge	N/A	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	10/21/14	*		*		*		*		
	O St. Sewage Pumping Station, SE		*		Ψ	*	Ψ				
010	O St. Sewage Pumping Station, SE	10/21/14							*		
011	Main Sewage Pumping Station, SE	10/21/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/21/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/21/14	*		*		*		*		
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	10/21/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/21/14	*			*			*		
016	12th and O Streets, SE	10/21/14	*		*		*		*		
017	M and Water Street, SE	10/21/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	10/21/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	10/09/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/16/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/16/14	*			*			*		
022	Rock Creek Parkway and G St., NW	10/17/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	10/17/14	*		*		*		*		
025	South of 31 st and K Streets, NW		*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	10/17/14	*		*			*	*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	10/17/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/17/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	10/17/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A	_					_			

				utfall	Tide			e Gate			
		_	Cor	idition	Pres	ent?	Con	dition	CS	O Sign	
NPDES	I	Date	OK	Needs Work	Yes	NI.	OK	Needs Work	OK	Needs	Notes, Work Needed or Performed
Outfall	Location NW	Inspected	UK	WOLK	res	No	OK	WORK	UK	WOLK	Notes, work Needed or Performed
028	Key Bridge and Whitehurst Freeway, NW	10/17/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	10/17/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	10/07/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/07/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/06/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/21/14	*			*			*		
036	22nd Street, South of Q Street NW.	10/02/14	*		*		*		*		
0371	Waterside Dr. and Rock Creek Parkway	N/A									
0.00	Between arch footbridge and Connecticut Ave., north of Kalorama	10/02/14	*								
038	Circle, NW.	40/05/44	-		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/02/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/02/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/20/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/20/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/20/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/20/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/20/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/08/14	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/08/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	10/08/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/08/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/02/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	10/02/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	10/02/14	*		*		*		*		
053^{1}	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	10/17/14	*		*		*		*		
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	10/02/14	*		*		*		*		

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

	1 umping 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	31	4	10	#1Pump	10/2/14	Pump being rehabbed	January 2015			
				#4 Pump	10/2/14	Pump being rehabbed	February 2015			
Eastside	31	2	4	None						
Poplar Point	31	2	3	None						
Potomac	31	4	5	#2screen	10/2/14	Rope stuck in screen	October 3,2014			
				#2Pump	10/3/14	VFD Problem	October 9,2014			
				-						

Notes:

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

Table 2-4
Pumping Stations – Preventive Maintenance

		Type of Preventive Maintenance	
Pumping Station	umping Station Date Performed Performed ¹		Comments
Main	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
O St	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

Table 2-5
Pumping Stations – Pumpage

	Sanitary Pı	ımpage		/ater/CSO Pumped To	Anacostia River
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	(units) ¹
Main	1,421.70	45.86	N/A	N/A	N/A
O St	130.05	4.20	Oct 15 / 2014	462.00	Normal
			Oct 22 / 2014	138.60	
Eastside	278.21	8.97	N/A	N/A	N/A
Poplar Point	649.30	20.95	N/A	N/A	N/A
Potomac	3,891.60	125.54	N/A	N/A	N/A
Rock Creek	154.87	5.00	N/A	N/A	N/A
Upper Anacostia	157.57	5.08	N/A	N/A	N/A
Earle Place	0.12	0.00	N/A	N/A	N/A

Notes:

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

2.4 Northeast Boundary Swirl Facility

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

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

Date	# of	# of	Screens or Swirls			
Inspected	Screens	Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
10/05/14	1, 2 & 3	1, 2 & 3	N/A	N/A		

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	Type of Preventive Maintenance Performed ¹	Comments
10/05/14	Group A	

Notes:

1. Group A consists of:

Exercise bar screens

Exercise wash down system

Exercise knife gates full travel both directions

Check depth of grit in grit channel and schedule Vactor truck as required

Change chart paper on strip chart recorders at the end of each month

Thoroughly clean each Swirl tank and channels

Issue work order requests as required

Drain condensation from air compress

Check all safety equipment

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

	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)
10/1/2014	4	3.0	3.0	0.0	30.0
10/8/2014	4	0.4	0.4	0.0	40.0
10/11/2014	4	4.4	4.4	0.0	20.0
10/15/2014	3	10.2	10.2	0.0	100.0
10/15/2014	8	14.7	14.7	0.0	130.0
10/22/2014	2	4.0	4.0	0.0	30.0
10/22/2014	8.5	19.1	5.6	13.5	160.0

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

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

	Chlor/	Dosages		Residual Chlorin Results	ne Test	E. Coli Test Results		
	Dechlor						Count	
	System	NaOCl	$NaHSO_3$		Conc.		Per	
Date	Used?	(mg/l)	(mg/l)	Location	(mg/l)	Site	100ml	
10/22/14	Yes	5	2	Mix Chamber	0.1	Mix Chamber	230,000	
10/22/14	168	3	2	Anacostia River ¹	0.0	Anacostia River ¹	150,000	

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)					
ĺ	10/22/14	29.0	0.03	0.67	5.23	5.93	0.72	33.8					

2.5 Inflatable Dams

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

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

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	10/31/14	No	N/A	N/A	N/A
14 - West	10/31/14	No	N/A	N/A	N/A
15	10/31/14	No	N/A	N/A	N/A
15A	10/31/14	No	N/A	N/A	N/A
16 - East	10/31/14	No	N/A	N/A	N/A
16 - West	10/31/14	No	N/A	N/A	N/A
24 - North	10/31/14	No	N/A	N/A	N/A
24 - Middle	10/31/14	No	N/A	N/A	N/A
24 - South	10/31/14	No	N/A	N/A	N/A
34	10/31/14	No	N/A	N/A	N/A
35	10/31/14	No	N/A	N/A	N/A
52	10/31/14	No	N/A	N/A	N/A

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

	atable Bamb & be	and the state of t			
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow			
14 (E & W)	None	N/A			
15	None				
15A	None				
16 (E & W)	10/15/14	24min			
24					
34	None				
35	10/15/14	36min			
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		Position			
Outfall Sewer Control Gate No. 1		Open			
Outfall Sewer Control Gate No.2	Operational	Open			

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow for the month of October 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	1			Clea	ıning		
			CD	Total Anacostia CBs	Total Anacostia CBs	CBs Cleaned Thru Last Month		CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
Ward	Total CBs	CBs in CSS	CBs in Anacostia CSS	Inspected Once this Year	Inspected Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	563	335	1213	801	327	235	1540	1036
2	4,714	4,112	2,316	2316	1553	4146	3083	857	515	5003	3598
3	3,555	461	-	0	0	4677	1148	88	0	4765	1148
4	2,782	1,985	159	159	159	3926	2375	19	19	3945	2394
5	2,167	1,035	1,035	1035	567	1905	1486	340	116	2245	1602
6	1,783	1,594	1,594	1594	852	1492	1203	1050	397	2542	1600
7	2,313	-	-	0	0	1251	0	91	0	1342	0
8	1,278	116	116	116	116	2534	707	12	3	2546	710
Subtotal	20,183	10,871	5,954	5,783	3,582	21,144	10,803	2,784	1,285	23,928	12,088
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871	5,954	5,783	3,582					23,928	12,088
% Cleaned/Inspected to Date				97%	60%					>100%	>100%

3.2 BMP Demonstration Projects

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

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

Table 3-2 BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	10/16/2014	Good	Clean debris	Cleaned debris	None
			from inside of	from inside of	
			boom	boom	
Bar Rack CSO 040	10/2/2014	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	10/20/2014	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:

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	22
Days not Operating	15
Reason not Operating	Environmental (4). Fleet troubleshooting and maintenance (11).
# Skimmer in Fleet	3 skimmers
# Skimmers Out of Service	3 skimmers
Dates	B28:10/1-10/6, 10/14-10/31 B29:10/1-10/31 B32:10/7, 10/17-10/31
Reason	B28: Prop lost power, wing screen jammed.
	B29: Front assembly catching on hull.
	B32: Tachometer not working and low voltage.
Plan to Restore to Service	B28: Waiting for parts. ETR November.
	B29: At contractors for repairs. ETR November.
	B32: Waiting for parts. ETR November.
Volume Material Collected	20 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

3.4 CSS Litter Control

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

Status: no activities this month.

4. MONITORING

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

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

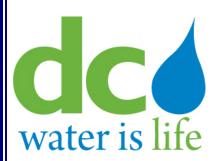
Table 4-1 Bar Racks at Main & O Street Pumping Stations

Inspector: Gregory Stephens

		Date	Cond	lition		Work Performed			
Pumping Station	Inspector	Inspected	Good	Needs Work	Work Needed	or Schedule for Completion			
Bar Racks at O									
Street Storm	GS	10/07/14	X						
Pumps (CSO 010)									
Bar Racks at Main									
Storm Pumps	GS	10/07/14	X						
(CSO 011)									

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

Tuni data non	Brentwood	Bryant Street	Main Main	Rock Creek
Date	Pumping	Pumping	Pumping	Pumping
	Station	Station	Station	Station
10/1/2014	0	0.01	0.02	0.01
10/2/2014	0	0	0	0
10/3/2014	0.05	0.03	0.03	0.07
10/4/2014	0.06	0.02	0.05	0.04
10/5/2014	0	0	0	0
10/6/2014	0	0	0	0
10/7/2014	0.17	0.08	0.13	0.17
10/8/2014	0	0	0	0
10/9/2014	0	0	0	0
10/10/2014	0.01	0.04	0.01	0.03
10/11/2014	0.33	0.32	0.28	0.4
10/12/2014	0	0	0	0
10/13/2014	0.06	0.06	0.05	0.06
10/14/2014	0	0	0	0
10/15/2014	1.35	0.84	0.85	1.48
10/16/2014	0	0	0	0
10/17/2014	0	0	0.01	0
10/18/2014	0	0	0	0
10/19/2014	0	0	0	0
10/20/2014	0	0	0	0
10/21/2014	0.25	0.41	0.23	0.31
10/22/2014	0.78	0.59	0.42	0.85
10/23/2014	0	0	0	0
10/24/2014	0	0	0	0
10/25/2014	0	0	0	0
10/26/2014	0	0	0	0
10/27/2014	0	0	0	0
10/28/2014	0	0	0	0
10/29/2014	0.01	0.02	0.01	0.01
10/30/2014	0	0	0	0
10/31/2014	0	0	0	0
TOTAL	3.07	2.42	2.09	3.43



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Serving the Public • Protecting the Environment

Monthly Operations Report For

Combined Sewer System
Month: November 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: November 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 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 Number	Location	Associated NPDES Outfall			ondition Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/21/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/21/14	*			
5	Poplar Point Pumping Station	004	11/04/14	*			
6	Chicago Street and Railroad Ave, SE	005	11/03/14	*			
7	W Street and Railroad Ave, SE	005	11/03/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	11/03/14	*			
11	"O" Street Pumping Station	011(a)	11/04/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/04/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/05/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/05/14	*			
15	South Capitol and E Streets	010	11/24/14	*			
15a	Half and L Streets, SE	010	11/24/14	*			
15b	South Capitol and I Streets	010	11/21/14	*			
15c	South Capitol and I Streets	010	11/21/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	11/04/14	*			
17	4 th and N Streets, SE, Both Extended	013	11/19/14	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	11/19/14	*			
18	6 th and M Streets, SE	014	11/21/14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	11/07/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	11/04/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	11/04/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/04/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/04/14	*			
22e	14 th Street and Kentucky Ave, SE	018	11/04/14	*			
23	Independence Ave, 21st Street, SE, Extended	019	11/19/14	*			
24a	East Capitol St, west of RFK stadium	019	11/19/14	*			
28	21 st and Constitution Ave, NW	020	11/12/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/12/14	*			
30	17 th and D Streets, NW	020	11/04/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/04/14	*			
33	10 th and F Streets, NW	020	11/04/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/04/14	*			
34a	23 rd Street near C Street, NW	020	11/12/14	*			
35	Northeast of Roosevelt Bridge, NW	021	11/12/14	*			
36	27 th and I Streets, NW	022	11/04/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/13/14	*			
36b	19 th and L Streets, NW	022, 034	11/13/14	*			
36d	17 th and L Streets, NW	022, 034	11/13/14	*			
36g	18 th and M Streets, NW	022, 034	11/13/14	*			
36h	18 th and M Streets, NW	022, 034	11/13/14	*			
37	27 th and Eye Streets, NW	022	11/04/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
38	29 th and K Streets, NW	024	11/07/14	*			
38a	30 th Street, south of K Street, NW	024	11/07/14	*			
39a	30 th and K Streets, NW	024	11/07/14	*			
39b	30 th and K Streets, NW	024	11/07/14	*			
41b	31 st and K Streets, NW	025	11/07/14	*			
41c	31 st and K Streets, NW	025	11/07/14	*			
42	Wisconsin Ave and K Street, NW	026	11/07/14	*			
43	Potomac and Water Streets, NW	027	11/07/14	*			
43a	Potomac and Water Streets, NW	027	11/07/14	*			
44	Water Street, west of Potomac St, NW	027	11/07/14	*			
45	36 th and M Streets, NW	028	11/03/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/03/14	*			
47	38 th Street and Reservoir Road, NW	029	11/03/14	*			
47a	37 th and T Streets, NW	029	11/03/14	*			
47b	37 th and T Streets, NW	029	11/03/14	*			
47c	38 th and W Streets, NW	029	11/03/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	11/04/14	*			
51	N Street Extended, west of 25 th Street, NW	033	11/13/14	*			
52	22 nd Street between M and N Streets, NW	034	11/04/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	11/04/14	*			
53	22 nd and M Streets, NW	022, 034	11/04/14	*			
53a	22 nd and M Streets, NW	022, 034	11/12/14	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	11/12/14	*			
53c	L and 22 nd Streets, NW	022	11/12/14	*			
54	23 rd and O Streets, NW	034	11/12/14	*			
55	22 nd Street, south of Q Street, NW	035	11/12/14	*			
55a	22 nd Street, south of Q Street, NW	035	11/12/14	*			
56	23 rd and Massachusetts Ave, NW	036	11/12/14	*			
57	23 rd Street, south of Q Street, NW	036	11/12/14	*			
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	11/04/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/04/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/04/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/05/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	042	11/05/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	11/05/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/05/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/05/14	*			
66	Adams Mill Road and Lamont Street, NW	045	11/05/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	11/05/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/05/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/05/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/05/14	*			
70i	5 th and Quackenbos Streets, NW	049	11/07/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	11/07/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/12/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/12/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/12/14	*			
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	11/13/14	*			
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	11/12/14	*			
84a	26 th and P Streets, NW	060	11/12/14	*			

- 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.

Table 2-2 Outfalls and Tide Gates

		uttans and	ı IIU	Coate	i)						
			Oı	utfall	Tide	Gate	Tide	e Gate			
			Con	idition	Pres	ent?	Con	dition	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	11/04/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/04/14	*		*		*		*		
006^{1}	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	11/04/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/04/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/04/14	*			*			*		
011	Main Sewage Pumping Station, SE	11/04/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/04/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/04/14	*		*		*		*		
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	11/04/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/04/14	*			*			*		
016	12th and O Streets, SE	11/04/14	*		*		*		*		
017	M and Water Street, SE	11/04/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	11/04/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	11/04/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	11/06/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/06/14	*			*			*		
022	Rock Creek Parkway and G St., NW	11/06/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	11/06/14	*		*		*		*		
025	South of 31st and K Streets, NW	11/06/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	11/06/14	*		*			*	*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	11/06/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/06/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	11/06/14	*		*		*		*		

				utfall		Gate		e Gate			
			Con	dition	Pres	ent?	Cor	dition	CS	O Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	11/13/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/13/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/13/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/13/14	*			*			*		
	22nd Street, South of Q Street NW.	11/13/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.		*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/04/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/04/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/06/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/06/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/06/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/06/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/06/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/05/14	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/05/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	11/05/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/05/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/07/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	11/20/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	11/20/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	11/13/14	*		*		*		*		
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	11/13/14	*		*		*		*		

^{1.} Outfall no longer functions as a combined sewer outfall.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

				- r g			
Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	30	4	10	#1pump	11/1/14	Pump being Rehabbed	January 2015
				#4pump	11/1/14	Pump being Rehabbed	February 2015
Eastside	30	2	4	None			
Poplar Point	30	2	3	None			
Potomac	30	4	5	#1screen	11/5/14	Rope stuck in screen/power lost	11/11/14
				#3pump	11/23/14	VFD problem	12/10/14

Notes:

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

Table 2-4
Pumping Stations – Preventive Maintenance

		Type of Preventive Maintenance	
Pumping Station	Date Performed	Performed ¹	Comments
Main	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

Table 2-5
Pumping Stations – Pumpage

Tumping Stations Tumpage										
	Sanitary Pı	ımpage	Storm W	Vater/CSO Pumped To	Anacostia River					
	Total Wastewater	Daily Average			Screenings Collected					
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	(units) ¹					
Main	1,315.00	43.83	N/A	N/A	N/A					
O St	120.10	4.00	11/26/14	54.60	Normal					
Eastside	232.20	7.74	N/A	N/A	N/A					
Poplar Point	646.30	21.54	N/A	N/A	N/A					
Potomac	3,483.00	116.10	N/A	N/A	N/A					
Rock Creek	300.60	10.02	N/A	N/A	N/A					
Upper Anacostia	216.50	7.22	N/A	N/A	N/A					
Earle Place	0.14	0.00	N/A	N/A	N/A					

Notes:

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

2.4 Northeast Boundary Swirl Facility

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

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

Date	# of	# of	Screens or Swirls			
Inspected	Screens	Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
11/19/14	1, 2 & 3	1, 2 & 3	N/A	N/A		

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Perform	ned Type of Preve	entive Maintenance Performed ¹	Comments
11/19/14	Group A		

Notes:

1. Group A consists of:

Exercise bar screens

Exercise wash down system

Exercise knife gates full travel both directions

Check depth of grit in grit channel and schedule Vactor truck as required

Change chart paper on strip chart recorders at the end of each month

Thoroughly clean each Swirl tank and channels

Issue work order requests as required

Drain condensation from air compress

Check all safety equipment

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

			· ·		
	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)
11/6/2014	5	4.1	4.1	0.0	30.0
11/17/2014	4	0.2	0.2	0.0	1.0
11/24/2014	3.75	14.9	14.9	0.0	112.0
11/26/2014	8	28.5	6.3	22.2	32.0
11/26/2014	4	2.2	2.2	0.0	10.0

- 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.

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

	Chlor/	Do	sages	Residual Chlorin Results	ne Test	E. Coli Test Results		
	Dechlor						Count	
	System	NaOCl	$NaHSO_3$		Conc.		Per	
Date	Used?	(mg/l)	(mg/l)	Location	(mg/l)	Site	100ml	
11/26/14	Yes	5	2	Mix Chamber	0.1	Mix Chamber	480,000	
11/20/14	103	3	1	Anacostia River ¹	0.0	Anacostia River ¹	560,000	

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)				
11/26/14	10.0	0.04	0.53	3.84	4.41	0.72	39.9				

2.5 Inflatable Dams

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

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

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	11/13/14	No	N/A	N/A	N/A
14 - West	11/13/14	No	N/A	N/A	N/A
15	11/13/14	No	N/A	N/A	N/A
15A	11/13/14	No	N/A	N/A	N/A
16 - East	11/13/14	No	N/A	N/A	N/A
16 - West	11/13/14	No	N/A	N/A	N/A
24 - North	11/13/14	No	N/A	N/A	N/A
24 - Middle	11/13/14	No	N/A	N/A	N/A
24 - South	11/13/14	No	N/A	N/A	N/A
34	11/26/14	No	N/A	N/A	N/A
35	11/26/14	No	N/A	N/A	N/A
52	11/26/14	No	N/A	N/A	N/A

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

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow
14 (E & W)	None	N/A
15	None	
15A	None	
16 (E & W)	None	
24	11/17/14	12:17pm- 2:39pm
34	None	
35	None	
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

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow for the month of November 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						
			CD	Total Anacostia CBs	Total Anacostia CBs		CBs Cleaned Thru Last Month		Cleaned Month	Total CBs Cleaned This Year to Date			
Ward	Total CBs	CBs in CSS	CBs in Anacostia CSS	Inspected Once this Year	Inspected Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS		
1	1,591	1,568	734	734	683	1540	1036	515	507	2055	1543		
2	4,714	4,112	2,316	2316	1961	5003	3598	546	514	5549	4112		
3	3,555	461	-	0	0	4765	1148	344	64	5109	1212		
4	2,782	1,985	159	159	159	3945	2394	0	0	3945	2394		
5	2,167	1,035	1,035	1035	601	2245	1602	76	34	2321	1636		
6	1,783	1,594	1,594	1594	1246	2542	1600	393	393	2935	1993		
7	2,313	-	-	0	0	1342	0	155	0	1497	0		
8	1,278	116	116	116	116	2546	710	17	2	2563	712		
Subtotal	20,183	10,871	5,954	5,954	4,766	23,928	12,088	2,046	1,514	25,974	13,602		
DDOT (via VMS) Subtotal													
Grand Total	20,183	10,871	5,954	5,954	4,766					25,974	13,602		
% Cleaned/Inspected to Date				100%	80%					>100%	>100%		

3.2 BMP Demonstration Projects

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

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

Table 3-2 BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	11/20/2014	Good	Change nets	Changed nets	1300 pounds
Bar Rack CSO 040	11/4/2014	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	11/6/2014	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:

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

Program Operation	5-day per work week, excluding holidays, weather permitting
Work Days this month:	18
Days not Operating	16
Reason not Operating	Fleet troubleshooting and maintenance. High winds and low tides.
# Skimmer in Fleet	3
# Skimmers Out of Service	2
Dates	B28: 11/1 - 11/30 B29: 11/1 - 11/30 B32: 11/1 -11/12
Reason	B28: Wing screen jammed
	B29: Front assembly catching on hull
	B32: Tach and volt meter not working
Plan to Restore to Service	B28: Waiting for parts. ETR December
	B29: At contractors for repairs. ETR December
	B32: Returned to service 11/13
Volume Material Collected	20 tons
Nature of Material	Bottles, cans, natural debris, and plastics.

3.4 CSS Litter Control

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

Status: no activities this month.

4. MONITORING

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

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

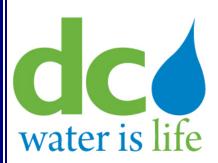
Table 4-1 Bar Racks at Main & O Street Pumping Stations

Inspector: Gregory Stephens_

		Date	Cond	lition		Work Performed
Pumping Station	Inspector	Inspected	Good	Needs Work	Work Needed	or Schedule for Completion
Bar Racks at O						
Street Storm	GS	11/18/14	X			
Pumps (CSO 010)						
Bar Racks at Main						
Storm Pumps	GS	11/18/14	X			
(CSO 011)						

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

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station
11/1/2014	0	0	0	0
11/2/2014	0	0	0	0
11/3/2014	0	0	0	0
11/4/2014	0	0	0	0
11/5/2014	0.01	0	0.01	0.01
11/6/2014	0.4	0.49	0.27	0.39
11/7/2014	0	0	0	0
11/8/2014	0	0	0	0
11/9/2014	0	0	0	0
11/10/2014	0	0	0	0
11/11/2014	0	0	0	0
11/12/2014	0	0	0	0
11/13/2014	0.02	0.03	0.01	0.03
11/14/2014	0.01	0	0	0
11/15/2014	0	0	0	0
11/16/2014	0.02	0	0.02	0.02
11/17/2014	0.72	0.46	0.52	0.73
11/18/2014	0	0	0	0
11/19/2014	0	0	0	0
11/20/2014	0	0	0	0
11/21/2014	0	0	0	0
11/22/2014	0	0	0	0
11/23/2014	0.13	0.08	0.13	0.12
11/24/2014	0.16	0.09	0.15	0.19
11/25/2014	0	0	0	0
11/26/2014	1.01	0.9	0.72	1.04
11/27/2014	0.01	0	0	0
11/28/2014	0	0	0	0
11/29/2014	0	0	0	0
11/30/2014	0	0	0	0
TOTAL	2.49	2.05	1.83	2.52



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Serving the Public • Protecting the Environment

Monthly Operations Report For

Combined Sewer System
Month: December 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: December 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 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 Number	Location	Associated NPDES Outfall			ondition Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/10/14	*			1 0
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/29/14	*			
5	Poplar Point Pumping Station	004	12/01/14	*			
6	Chicago Street and Railroad Ave, SE	005	12/02/14	*			
7	W Street and Railroad Ave, SE	005	12/02/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	12/02/14	*			
11	"O" Street Pumping Station	011(a)	12/01/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/01/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/17/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/17/14	*			
15	South Capitol and E Streets	010	12/29/14	*			
15a	Half and L Streets, SE	010	1229/14	*			
15b	South Capitol and I Streets	010	12/15/14	*			
15c	South Capitol and I Streets	010	12/15/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
16	North of Main Sewage Pumping Station	012	12/29/14	*			
17	4 th and N Streets, SE, Both Extended	013	12/22/14	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	12/17/14	*			
18	6 th and M Streets, SE	014	12/12//14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	12/02/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	12/12/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/12/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/12/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/12/14	*			
22e	14 th Street and Kentucky Ave, SE	018	12/12/14	*			
23	Independence Ave, 21st Street, SE, Extended	019	12/12/14	*			
24a	East Capitol St, west of RFK stadium	019	12/12/14	*			
28	21st and Constitution Ave, NW	020	12/12/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/12/14	*			
30	17 th and D Streets, NW	020	12/15/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/15/14	*			
33	10 th and F Streets, NW	020	12/15/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/29/14	*			
34a	23 rd Street near C Street, NW	020	12/12/14	*			
35	Northeast of Roosevelt Bridge, NW	021	12/29/14	*			
36	27 th and I Streets, NW	022	12/12/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/12/14	*			
36b	19 th and L Streets, NW	022, 034	12/12/14	*			
36d	17 th and L Streets, NW	022, 034	12/12/14	*			
36g	18 th and M Streets, NW	022, 034	12/12/14	*			
36h	18 th and M Streets, NW	022, 034	12/12/14	*			
37	27 th and Eye Streets, NW	022	12/12/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
38	29 th and K Streets, NW	024	12/17/14	*			
38a	30 th Street, south of K Street, NW	024	12/17/14	*			
39a	30 th and K Streets, NW	024	12/17/14	*			
39b	30 th and K Streets, NW	024	12/17/14	*			
41b	31 st and K Streets, NW	025	12/17/14	*			
41c	31 st and K Streets, NW	025	12/17/14	*			
42	Wisconsin Ave and K Street, NW	026	12/17/14	*			
43	Potomac and Water Streets, NW	027	12/17/14	*			
43a	Potomac and Water Streets, NW	027	12/17/14	*			
44	Water Street, west of Potomac St, NW	027	12/17/14	*			
45	36 th and M Streets, NW	028	12/15/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/15/14	*			
47	38 th Street and Reservoir Road, NW	029	12/15/14	*			
47a	37 th and T Streets, NW	029	12/15/14	*			
47b	37 th and T Streets, NW	029	12/15/14	*			
47c	38 th and W Streets, NW	029	12/15/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	12/22/14	*			
51	N Street Extended, west of 25 th Street, NW	033	12/22/14	*			
52	22 nd Street between M and N Streets, NW	034	12/22/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/22/14	*			
53	22 nd and M Streets, NW	022, 034	12/22/14	*			
53a	22 nd and M Streets, NW	022, 034	12/22/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	12/22/14	*			
53c	L and 22 nd Streets, NW	022	12/22/14	*			
54	23 rd and O Streets, NW	034	12/19/14	*			
55	22 nd Street, south of Q Street, NW	035	12/19/14	*			
55a	22 nd Street, south of Q Street, NW	035	12/19/14	*			
56	23 rd and Massachusetts Ave, NW	036	12/19/14	*			
57	23 rd Street, south of Q Street, NW	036	12/19/14	*			
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	12/11/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/03/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/10/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/10/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	12/10/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/10/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/10/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/10/14	*			
66	Adams Mill Road and Lamont Street, NW	045	12/10/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	12/10/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/10/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/10/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/02/14	*			
70i	5 th and Quackenbos Streets, NW	049	12/02/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	12/12/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/19/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/19/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/19/14	*			
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	12/22/14	*			
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	12/17/14	*			
84a	26 th and P Streets, NW	060	12/1714	*			

Notes:

- 1. Structure no longer functions as a combined sewer overflow regulator structure.
- 2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

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

Table 2-2 Outfalls and Tide Gates

	<u> </u>	uttalis and	ıııu	e Gate	3						
			Outfall Tide Gate Tide Gate								
			Cor	idition	Pres	ent?	Con	dition	CS	O Sign	
NPDES		Date		Needs				Needs		Needs	
Outfall	Location	Inspected	OK	Work		No	OK	Work	OK	Work	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	12/10/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/11/14	*		*		*		*		
006^{1}	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	12/11/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/01/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/01/14	*			*			*		
011	Main Sewage Pumping Station, SE	12/01/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/01/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/01/14	*		*		*		*		
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	12/01/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/01/14	*			*			*		
016	12th and O Streets, SE	12/01/14	*		*		*		*		
017	M and Water Street, SE	12/01/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	12/01/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	12/01/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	12/23/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/23/14	*			*			*		
022	Rock Creek Parkway and G St., NW	12/18/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	12/18/14	*		*		*		*		
025	South of 31st and K Streets, NW	12/18/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	12/18/14	*		*			*	*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	12/18/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/18/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	12/18/14	*		*		*		*		

				utfall	Tide			e Gate			
			Cor	idition	Pres	ent?	Con	dition	CS	O Sign	
NPDES		Date	0.77	Needs			0.77	Needs	0.77	Needs	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Work	Notes, Work Needed or Performed
	Key Bridge and Whitehurst Freeway, NW	12/18/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	12/18/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	12/22/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/22/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/19/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	12/19/14	*			*			*		
036	22nd Street, South of Q Street NW.	12/23/14	*		*		*		*		
0371	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/11/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/03/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/03/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/18/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/18/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/18/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/18/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/18/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/10/14	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/10/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	12/10/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	12/10/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/12/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	12/23/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	12/23/14	*		*		*		*		
053^{1}	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	12/22/14	*		*		*		*		
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	12/23/14	*		*		*		*		

Notes:

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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 ¹
Main	31	4	10	#1 Pump	12/1/14	Pump being rehabbed	January 2015
				#4 Pump	12/1/14	Pump being rehabbed	February 2015
Eastside	8	2	4	None			
Poplar Point	8	2	3	None			
Potomac	31	4	5	#3 Pump	12/1/14	VFD problem	12/10/14

Notes:

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

Table 2-4
Pumping Stations – Preventive Maintenance

		Type of Preventive Maintenance	
Pumping Station	Date Performed	Performed ¹	Comments
Main	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
O St	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

Table 2-5
Pumping Stations – Pumpage

Tumping Stations Tumpage							
	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) ¹		
Main	1,502.30	48.46	N/A	N/A	N/A		
O St	136.50	4.40	12/08/14	4.80	Normal		
Eastside	229.98	38.33	N/A	N/A	N/A		
Poplar Point	645.74	107.62	N/A	N/A	N/A		
Potomac	3,866.30	124.72	N/A	N/A	N/A		
Rock Creek	603.13	100.52	N/A	N/A	N/A		
Upper Anacostia	148.85	24.81	N/A	N/A	N/A		
Earle Place	0.26	0.04	N/A	N/A	N/A		

Notes:

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

2.4 Northeast Boundary Swirl Facility

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

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

Date	# of	# of	Screens or Swirls			
Inspected	Screens	Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
12/07/14	1, 2 & 3	1, 2 & 3	N/A	N/A		

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	Type of Preventive Maintenance Performed ¹	Comments
12/07/14	Group A	

Notes:

1. Group A consists of:

Exercise bar screens

Exercise wash down system

Exercise knife gates full travel both directions

Check depth of grit in grit channel and schedule Vactor truck as required

Change chart paper on strip chart recorders at the end of each month

Thoroughly clean each Swirl tank and channels

Issue work order requests as required

Drain condensation from air compress

Check all safety equipment

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

	Approx. Storm	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings
Date	Duration (hrs) ¹	Volume (mg)	Volume (mg)	$Volume (mg)^2$	Volume (Cu. ft)
12/2/2014	5.5	11.7	11.7	0.0	80.0
12/2/2014	3	2.8	2.8	0.0	10.0
12/6/2014	4	2.7	2.7	0.0	10.0
12/16/2014	4.75	15.1	15.1	0.0	85.0
12/24/2014	6.5	7.5	7.5	0.0	50.0
12/24/2014	8.5	0.1	0.1	0.0	1.0

Notes:

- 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.

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

				Residual Chlorin	ne Test		
	Chlor/	Do	Dosages Results		E. Coli Test Results		
	Dechlor						Count
	System	NaOCl	$NaHSO_3$		Conc.		Per
Date	Used?	(mg/l)	(mg/l)	Location	(mg/l)	Site	100ml
N/A				Mix Chamber		Mix Chamber	
IV/A				Anacostia River ¹		Anacostia River ¹	

Notes:

1. River: River Outfall

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

Ī		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)	
Ī	N/A								

2.5 Inflatable Dams

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

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

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	12/30/14	No	N/A	N/A	N/A
14 - West	12/30/14	No	N/A	N/A	N/A
15	12/30/14	No	N/A	N/A	N/A
15A	12/30/14	No	N/A	N/A	N/A
16 - East	12/30/14	No	N/A	N/A	N/A
16 - West	12/30/14	No	N/A	N/A	N/A
24 - North	12/30/14	No	N/A	N/A	N/A
24 - Middle	12/30/14	No	N/A	N/A	N/A
24 - South	12/30/14	No	N/A	N/A	N/A
34	12/30/14	No	N/A	N/A	N/A
35	12/30/14	No	N/A	N/A	N/A
52	12/30/14	No	N/A	N/A	N/A

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

	atable bamb et be.	and the state of t
Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow
14 (E & W)	None	N/A
15	None	
15A	None	
16 (E & W)	None	
24	None	
34	None	
35	None	
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

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow for the month of December 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	1			Clea	ıning		
			CP	Total Anacostia CBs	Total Anacostia CBs	CBs Clea Last N			Cleaned Month		s Cleaned r to Date
Ward	Total CBs	CBs in CSS	CBs in Anacostia CSS	Inspected Once this Year	Inspected Twice this Year	Total	In CSS	Total	In CSS	Total	In CSS
1	1,591	1,568	734	734	734	2055	1543	74	68	2129	1611
2	4,714	4,112	2,316	2316	2316	5549	4112	1118	630	6667	4742
3	3,555	461	-	0	0	5109	1212	50	0	5159	1212
4	2,782	1,985	159	159	159	3945	2394	11	1	3956	2395
5	2,167	1,035	1,035	1035	1035	2321	1636	910	442	3231	2078
6	1,783	1,594	1,594	1594	1594	2935	1993	472	422	3407	2415
7	2,313	-	-	0	0	1497	0	72	0	1569	0
8	1,278	116	116	116	116	2563	712	144	52	2707	764
Subtotal	20,183	10,871	5,954	5,954	5,954	25,974	13,602	2,851	1,615	28,825	15,217
DDOT (via VMS) Subtotal											
Grand Total	20,183	10,871	5,954	5,954	5,954					28,825	15,217
% Cleaned/Inspected to Date				100%	100%					>100%	>100%

3.2 BMP Demonstration Projects

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

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

Table 3-2 BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	12/18/2014	Good	Clean debris	Cleaned debris	None
			from platform.	from platform.	
Bar Rack CSO 040	12/3/2014	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	12/18/2014	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:

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	11
Reason not Operating	Environmental (8). Fleet troubleshooting and maintenance (3).
# Skimmer in Fleet	3 skimmers
# Skimmers Out of Service	3 skimmers
Dates	B28: 12/1-12/12, 12/23-12/31 B29: 12/1-12/31 B32: 12/29-12/31
Reason	B28: Wing screen jammed, hydraulic oil leak on stbd prop pod.
	B29: Front assembly catching on hull.
	B32: Hydraulic oil leak in propulsion pod.
Plan to Restore to Service	B28: Parts on order. ETR January 2015.
	B29: At contractors for repairs. ETR unknown.
	B32: Parts on order. ETR January 2015.
Volume Material Collected	10 tons.
Nature of Material	Bottles, cans, natural debris and plastics.

3.4 CSS Litter Control

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

Status: no activities this month.

4. MONITORING

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

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

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

Inspector: Gregory Stephens_

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	Work Needed	or Schedule for Completion
Bar Racks at O						
Street Storm	GS	12/07/14	X			
Pumps (CSO 010)						
Bar Racks at Main						
Storm Pumps	GS	12/07/14	X			
(CSO 011)						

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

	Brentwood	Bryant Street	Main	Rock Creek	
Date	Pumping	Pumping	Pumping	Pumping	
	Station	Station Station		Station	
12/1/2014	0.1	0.17	0.09	0.17	
12/2/2014	0.59	0.48	0.46	0.64	
12/3/2014	0.02	0.02	0.03	0.03	
12/4/2014	0	0	0	0	
12/5/2014	0	0	0	0	
12/6/2014	0.49	0.36	0.33	0.53	
12/7/2014	0	0	0	0	
12/8/2014	0	0	0	0	
12/9/2014	0.35	0.28	0.26	0.4	
12/10/2014	0	0	0	0	
12/11/2014	0	0	0	0	
12/12/2014	0	0	0	0	
12/13/2014	0	0	0	0	
12/14/2014	0	0	0 0		
12/15/2014	0	0	0	0	
12/16/2014	0.38	0.26	0.29	0.37 0	
12/17/2014	0	0	0 0		
12/18/2014	0	0	0	0	
12/19/2014	0	0	0	0	
12/20/2014	0	0	0	0	
12/21/2014	0	0	0	0	
12/22/2014	0.18	0.16	0.22	0.21	
12/23/2014	0.01	0.04	0.03	0.04	
12/24/2014	0.65	0.02	0.72	0.78	
12/25/2014	0.09	0	0.09	0.13	
12/26/2014	0	0	0	0	
12/27/2014	0	0	0	0 0.06	
12/28/2014	0.04	0	0 0.07		
12/29/2014	0.02	0	0.04	0.03	
12/30/2014	0	0	0	0	
12/31/2014	0	0	0	0	
TOTAL	2.92	1.79	2.63	3.39	

Combined Sewer System Model Results Period: October, November, December 2014 SCENARIO: Y2014_Q4, produced January 13, 2015

P							
				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)
Anacostia CS0	2-						
005	Chicago St and Railroad Station SE	12	1.41	34.75	2.90	8.50	0.25
000	Good Hope Road, West of Nichols	12	1.71			0.00	0.20
006	Ave.,SE			separ	ated		
007	13 th Street and Ridge Place,SE	4	0.66	2.00	0.50	1.00	0.25
	2nd Street, 300 feet North of N Place,		0.00	2.00	0.00		0.20
009	SE	4	0.18	3.75	0.94	1.75	0.50
	O Street SewagePumping Station, SE						
010	(pumped Overflow)	5	4.44	1.25	0.25	0.25	0.25
	South of Main Sewage Pumping						
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)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	8	0.12	5.00	0.63	2.00	0.25
014	6th and M Streets, SE	3	0.64	4.00	1.33	2.75	0.50
015	9th and M Streets, SE	4	0.15	2.00	0.50	1.00	0.25
016	12th and M Streets, SE	3	0.41	2.00	0.67	1.50	0.25
017	14th and M Streets, SE	8	2.75	22.00	2.75	5.50	1.00
	Barney Circle andPennsylvania Ave,						
018	SE	5	1.01	4.25	0.85	2.75	0.25
019	Northeast Boundary - Swirl Effluent	6	53.78	33.25	5.54	10.00	1.50
019	Northeast Bound Swirl Bypass	1	1.79	0.75	0.75	0.75	0.75
	SUBTOTAL		68.19				
Botomoo CSO	_						
Potomac CSO:	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
003	23rd Street, North of Constitution Ave,	0	0.00	0.00	0.00	0.00	0.00
020	NW (Easby Point)	1	0.62	1.75	1.75	1.75	1.75
020	Northeast ofRoosevelt Bridge, NW	3	13.32	3.50	1.17	2.25	0.50
021	27th and K Streets, NW	5	0.14	5.00	1.00	2.23	0.30
024	30th and K Streets, NW	1	0.14	1.25	1.25	1.25	1.25
025	31st & K St NW	1	0.02	0.50	0.50	0.50	0.50
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	14	3.58	65.75	4.70	11.25	0.25
028	36th and M Streets, NW	10	0.33	11.50	1.15	2.25	0.25
020	Canal Road 1000 feet east of Rock		0.00	11.00	1.10	2.20	0.20
029	Creek,NW	1	0.20	0.75	0.75	0.75	0.75
	SUBTOTAL		18.29				
Rock Creek							
	Pennsylvania Avenue, East Rock			separ	ated		
031	Creek, NW						
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
	N Street extendedwest of 25th					1	
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 Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	2	0.027	1.75	0.88	1.50	0.25
	Northwest of Belmontand Rock Creek			separ	ated		
037	and Potomac Parkway	separated					
	North of Belmont Road,east of						
038	Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
	Connecticut Avenue east of Rock						
039	Creek, NW	0	0.00	0.00	0.00	0.00	0.00
	Biltmore Street extended east of						
040	RockCreek, NW	0	0.00	0.00	0.00	0.00	0.00
044	Ontario extended and Rock Creek	_	0.00	0.00	0.00	0.00	0.00
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 2014 SCENARIO: Y2014_Q4, produced January 13, 2015

		Normalismont	000	Total	A D ti	Maximum	Minimum
		Number of Overflows	CSO Overflow	Duration of Overflow	Avg Duration of Overflow	Duration of Overflow	Duration of Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)		
INPUES NO.	Harvard Street and RockCreek	(Occurrences)	volume (mg)	(IIIS)	(IIIS)	(hrs)	(hrs)
042	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
042	Adams Mill Road South of Irving	U	0.00	0.00	0.00	0.00	0.00
043	Street, NW	0	0.00	0.00	0.00	0.00	0.00
043	Kenyon Street and Adams Mill Road,	U	0.00	0.00	0.00	0.00	0.00
044	NW	0	0.00	0.00	0.00	0.00	0.00
044	Adams Mill Road and Lamont Street.	U	0.00	0.00	0.00	0.00	0.00
045	NW	1	0.004	0.25	0.25	0.25	0.25
043	Park Road south of Piney Branch		0.004	0.20	0.25	0.23	0.23
046	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
040	Ingleside Terrace extended and Piney	0	0.00	0.00	0.00	0.00	0.00
047	Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
0 11	Mt. Pleasant Street extended and	·	0.00	0.00	0.00	0.00	0.00
048	Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
0.10	I may Branon r antway	·	0.00	0.00	0.00	0.00	0.00
049	Piney Branch and LamontStreet, NW	3	2.039	3.75	1.25	2.50	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,		•				
053	NW		separated				
	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	separated					
057	Creek, NW			Sepai	aleu		
	Connecticut Avenue and Rock Creek			senar	ated		
058	Parkway, NW	separated					
060	P St and 26 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		2.07				
							<u> </u>
	TOTAL		88.55				

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