QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

SECOND QUARTER, 2015

Prepared By:

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

Monthly Operations Report
For
Combined Sewer System
Month: April 2015

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

Monthly Operations Report for Combined Sewer System
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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 Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/23/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/23/15	*			
5	Poplar Point Pumping Station	004	04/21/15	*			
6	Chicago Street and Railroad Ave, SE	005	04/21/15	*			
7	W Street and Railroad Ave, SE	005	04/21/15	*			
8[1]	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE	007	04/21/15	*			
11	"O" Street Pumping Station	011(a)	04/23/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/23/15	*			
13	2nd Street, 300 ft. north of N Place, SE	009	04/23/15	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	04/23/15	*			
15	South Capitol and E Streets	010	04/23/15	*			
15a	Half and L Streets, SE	010	04/01/15	*			
15b	South Capitol and I Streets	010	04/01/15	*			
15c	South Capitol and I Streets	010	04/01/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	04/23/15	*			
17	4th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6th Street and 7th Street, SE	013	04/23/15	*			
18	6th and M Streets, SE	014	04/21/15	*			
19	9th and M Streets, SE	015	04/22/15	*			
19a	9th and M Streets, SE	015	04/22/15	*			
20	12th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12th and M Streets, SE	016	04/22/15	*			
21	14th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	04/14/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	04/14/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	04/14/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/22/15	*			
22e	14th Street and Kentucky Ave, SE	018	04/22/15	*			
23	Independence Ave, 21st Street, SE, Extended	019	04/14/15	*			
24a	East Capitol St, west of RFK stadium	019	04/14/15	*			
28	21st and Constitution Ave, NW	020	04/08/15	*			
29	22nd Street, between Constitution Ave and C St, NW	020	04/08/15	*			
30	17th and D Streets, NW	020	04/08/15	*			
31	15th Street and Pennsylvania Ave, NW	020	04/08/15	*			
33	10th and F Streets, NW	020	04/08/15	*			
34	23rd Street, north of Constitution Ave, NW	020	04/08/15	*			
34a	23rd Street near C Street, NW	020	04/08/15	*			
35	Northeast of Roosevelt Bridge, NW	021	04/22/15	*			
36	27th and I Streets, NW	022	04/22/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/22/15	*			
36b	19th and L Streets, NW	022, 034	04/17/15	*			
36d	17th and L Streets, NW	022, 034	04/17/15	*			
36g	18th and M Streets, NW	022, 034	04/17/15	*			
36h	18th and M Streets, NW	022, 034	04/22/15	*			
37	27th and Eye Streets, NW	022	04/02/15	*			
38	29th and K Streets, NW	024	04/15/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
38a	30th Street, south of K Street, NW	024	04/15/15	*			
39a	30th and K Streets, NW	024	04/15/15	*			
39b	30th and K Streets, NW	024	04/15/15	*			
41b	31st and K Streets, NW	025	04/15/15	*			
41c	31st and K Streets, NW	025	04/15/15	*			
42	Wisconsin Ave and K Street, NW	026	04/15/15	*			
43	Potomac and Water Streets, NW	027	04/15/15	*			
43a	Potomac and Water Streets, NW	027	04/15/15	*			
44	Water Street, west of Potomac St, NW	027	04/10/15	*			
45	36th and M Streets, NW	028	04/10/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/10/15	*			
47	38th Street and Reservoir Road, NW	029	04/10/15	*			
47a	37th and T Streets, NW	029	04/10/15	*			
47b	37th and T Streets, NW	029	04/10/15	*			
47c	38th and W Streets, NW	029	04/10/15	*			
49[1]	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	04/01/15	*			
51	N Street Extended, west of 25th Street, NW	033	04/28/15	*			
52	22nd Street between M and N Streets, NW	034	04/28/15	*			
52a	N Street between 22nd and 23rd Streets, NW	034	04/22/15	*			
53	22nd and M Streets, NW	022, 034	04/22/15	*			
53a	22nd and M Streets, NW	022, 034	04/22/15	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	04/22/15	*			
53c	L and 22nd Streets, NW	022	04/21/15	*			
54	23rd and O Streets, NW	034	04/21/15	*			
55	22nd Street, south of Q Street, NW	035	04/21/15	*			
55a	22nd Street, south of Q Street, NW	035	04/21/15	*			
56	23rd and Massachusetts Ave, NW	036	04/21/15	*			
57	23rd Street, south of Q Street, NW	036	04/21/15	*			
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	04/01/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/01/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/01/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/17/15	*			
63	Harvard Street and Rock Creek Parkway, NW	042	04/17/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
64	Adams Mill Road, south of Irving Street, NW	043	04/21/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/17/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/17/15	*			
66	Adams Mill Road and Lamont Street, NW	045	04/17/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	04/17/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	04/17/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/17/15	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	04/17/15	*			
70i	5th and Quackenbos Streets, NW	049	04/10/15	*			
71	28th Street, west of Rock Creek Parkway, NW	050	04/16/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/14/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/14/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	04/14/15	*			
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	04/09/15	*			
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	26th and P Streets, NW	060	04/14/15	*			
84a	26th and P Streets, NW	060	04/14/15	*			

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

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	04/01/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	04/01/15	*		*		*		*		
006[1]	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11th St. and Anacostia Bridges, SE	04/01/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	04/01/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	04/01/15	*			*			*		
011	Main Sewage Pumping Station, SE	04/01/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/01/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	04/01/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6th St., SE	04/01/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/01/15	*			*			*		
016	12th and O Streets, SE	04/01/15	*		*		*		*		
017	M and Water Street, SE	04/01/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	04/01/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	04/01/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	04/16/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/16/15	*			*			*		
022	Rock Creek Parkway and G St., NW	04/16/15	*		*		*		*		
024	South of 30th and K Streets, NW[1]	04/02/15	*		*		*		*		
025	South of 31st and K Streets, NW	04/02/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	04/02/15	*		*		*		*		
027	33rd and Water Sts., NW	04/02/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/02/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	04/02/15	*		*		*		*		
031[1]	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
032	26th and M Street, NW.	04/01/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	04/01/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	04/01/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	04/21/15	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/21/15	*		*		*		*		
037[1]	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	04/01/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	04/01/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	04/01/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/16/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/16/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	04/16/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	04/16/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	04/16/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	04/17/15	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	04/17/15	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	04/17/15	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	04/17/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	04/16/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	04/20/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	04/09/15	*		*		*		*		
053[1]	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	04/09/15	*		*		*		*		
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	04/09/15	*		*		*		*		

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 Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*[1]
Main	30	4	4	#4 Pump	04/01/15 - 04/30/15	Pump being rehabbed W/O # 14-288560	7/31/2015
Eastside	4	2	4	None	N/A	N/A	
Poplar Point	4	2	3	#2 Screen	04/01/15 - 04/30/15	Screen being rehabbed W/O # 15-145414	05/31/15
Potomac	30	4	5	#1 Screen	04/01/15 - 04/30/15	Screen being rehabbed W/O # 15-146919	05/10/15

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

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	4/15/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	4/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	4/12/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	4/12/15	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

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*[1]
Main	1,575.50	52.52	N/A	N/A	N/A
O St	119.60	3.99	4/20/15	21.56	Normal
Eastside	375.26	12.51	N/A	N/A	N/A
Poplar Point	713.53	23.78	N/A	N/A	N/A
Potomac	3,895.30	129.84	N/A	N/A	N/A
Rock Creek	233.96	7.80	N/A	N/A	N/A
Upper Anacostia	167.56	5.59	N/A	N/A	N/A
Earle Place	0.20	0.01	N/A	N/A	N/A

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

2.4 Northeast Boundary Swirl Facility

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

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

Date Inspected	*# of Screens*	*# of Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
4/12/2015	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*
4/12/2015	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 compressor storage tank
Check all safety equipment

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

Date	*Approx. Storm Duration (hrs)*[1]	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume (mg)*[2]	*Approx. Screenings Volume (Cu. ft)*
4/20/2015	5	22.55	7.07	15.48	120

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

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*E. Coli Test Results*	
		NaOCl (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*
NONE	**NONE**	NONE	NONE	Mix Chamber	NONE	Mix Chamber	NONE
				Anacostia River[1]	NONE	Anacostia River[1]	NONE

Notes:
1. River: River Outfall

Table 2-10

Northeast Boundary Swirl Facility – Effluent Sampling Results

	Flow Composited Sample Results						
Date	*Total suspended solids (mg/L)*	*Nitrite (NO2-N) mg/L*	*Nitrate (NO3-N)) mg/L*	*Total Kjeldahl Nitrogen (mg/L as N)*	*Total Nitrogen (mg/L)*	*Total Phosphorus (mg/L)*	*Carbonaceous Biological Oxygen Demand (mg/L)*
NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

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 Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	4/28/2015	**No**	**N/A**	**N/A**	**N/A**
14 - West	4/28/2015	**No**	**N/A**	**N/A**	**N/A**
15	4/29/2015	**No**	**N/A**	**N/A**	**N/A**
15A	4/29/2015	**No**	**N/A**	**N/A**	**N/A**
16 - East	4/28/2015	**No**	**N/A**	**N/A**	**N/A**
16 - West	4/28/2015	**No**	**N/A**	**N/A**	**N/A**
24 - North	4/29/2015	**YES**	**4/01/15-4/20/15**	**Repair to system**	**4/20/15**
24 - Middle	4/29/2015	**YES**	**4/01/15-4/20/15**	**Repair to system**	**4/20/15**
24 - South	4/29/2015	**YES**	**4/01/15-4/20/15**	**Repair to system**	**4/20/15**
34	4/29/2015	**No**	**N/A**	**N/A**	**N/A**
35	4/29/2015	**No**	**N/A**	**N/A**	**N/A**
52	4/29/2015	**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*	
15	*None*	
15A	*None*	
16 (E & W)	*None*	
24	*None*	
34	*None*	
35	*4/20/15*	*6min*
52	*None*	
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 during April 2015.

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*					
						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*	*Total Anacostia CBs Inspected Once this Year*	*Total Anacostia CBs Inspected Twice this Year*	Total	In CSS	Total	In CSS	Total	In CSS
1	1338	1338	1338	63	0	84	84	10	10	94	94
2	3320	2961	911	376	6	458	348	35	35	493	383
3	3237	374	0	0	0	22	0	29	0	51	0
4	3002	1683	31	0	0	48	42	132	104	180	146
5	3703	1886	1738	296	0	431	307	5	0	436	307
6	3686	3106	3068	1564	63	1321	978	676	630	1997	1608
7	3144	52	33	33	33	3724	79	19	0	3724	79
8	2512	347	347	73	0	218	0	1003	73	1221	73
Subtotal	**23942**	**11747**	**7466**	**2405**	**102**	**6306**	**1838**	**1909**	**852**	**8196**	**2690**
DDOT (via VMS) Subtotal											
Grand Total	**23942**	**11747**	**7466**	**2405**							
% Cleaned/Inspected to Date				**32%**	**.13%**					**34%**	**23%**

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	4/17/2015	Good	Clean debris from boom.	Debris cleaned from boom.	None
Bar Rack CSO 040	4/1/2015	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	4/16/2015	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:	23
Days not Operating	8
Reason not Operating	High winds, low tide, and PM/repair service.
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	1 Skimmers
Dates	B28: 4/1 - 4/26 B29: 4/2 - 4/30
Reason	B28: Hydraulic ram leaking hydraulic oil. B29: Losing propulsion power when operating.
Plan to Restore to Service	B28: Returned to operation with front end catching on 4/27. B29: Propulsion pump removed for repair. ETR unknown.
Volume Material Collected	30 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 Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	GS	4/28/2015	X			
Bar Racks at Main Storm Pumps (CSO 011)	GS	4/28/2015	X			

4.2 Rain Data

Rain 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	Reagan National Airport
4/1/2015	0	0	0	n/a	0
4/2/2015	0	0	0	n/a	0
4/3/2015	0.18	0.16	0.16	n/a	0.19
4/4/2015	0.01	0.01	0.05	n/a	0.05
4/5/2015	0	0	0	n/a	0
4/6/2015	0	0	0	n/a	0
4/7/2015	0.02	0.02	0.02	n/a	0.17
4/8/2015	0.33	0.13	0.28	n/a	0.13
4/9/2015	0.06	0.04	0.03	n/a	0.04
4/10/2015	0.02	0.01	0.01	n/a	0.01
4/11/2015	0	0	0	n/a	0
4/12/2015	0	0	0	n/a	0
4/13/2015	0	0	0	n/a	0
4/14/2015	0.54	0.44	0.49	n/a	0.64
4/15/2015	0	0	0	n/a	0.00
4/16/2015	0.02	0.02	0.01	n/a	0.04
4/17/2015	0.06	0.07	0.05	n/a	0.03
4/18/2015	0	0	0	n/a	0
4/19/2015	0.27	0.21	0.19	n/a	0.37
4/20/2015	1.19	0.75	0.82	n/a	0.77
4/21/2015	0.18	0.08	0.11	n/a	0.16
4/22/2015	0	0	0	n/a	0
4/23/2015	0	0	0	n/a	0
4/24/2015	0	0	0	n/a	0
4/25/2015	0.27	0.22	0.22	n/a	0
4/26/2015	0.01	0	0	n/a	0
4/27/2015	0	0	0	n/a	0
4/28/2015	0	0	0	n/a	0
4/29/2015	0	0	0	n/a	0
4/30/2015	0.01	0.01	0	n/a	0
TOTAL	3.17	2.17	2.44	n/a	2.61

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

Monthly Operations Report
For
Combined Sewer System
Month: May 2015

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

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

Monthly Operations Report for Combined Sewer System
Month: May 2015

Table of Contents

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 Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/18/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/18/15	*			
5	Poplar Point Pumping Station	004	05/19/15	*			
6	Chicago Street and Railroad Ave, SE	005	05/04/15	*			
7	W Street and Railroad Ave, SE	005	05/04/15	*			
8[1]	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE	007	05/09/14	*			
11	"O" Street Pumping Station	011(a)	05/26/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/26/14	*			
13	2nd Street, 300 ft. north of N Place, SE	009	N/A				Construction for Clean Rivers Project
14	2nd Street, 250 ft. north of N Place, SE	011(a)	N/A				Construction for Clean Rivers Project
15	South Capitol and E Streets	010	05/19/15	*			
15a	Half and L Streets, SE	010	05/19/15	*			
15b	South Capitol and I Streets	010	05/19/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
15c	South Capitol and I Streets	010	05/19/15	*			
16	North of Main Sewage Pumping Station	012	N/A				Construction for Clean Rivers Project
17	4th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6th Street and 7th Street, SE	013	05/06/15	*			
18	6th and M Streets, SE	014	05/14/15	*			
19	9th and M Streets, SE	015	05/14/15	*			
19a	9th and M Streets, SE	015	05/13/15	*			
20	12th and M Streets, SE	016	05/13/15	*			
20a	12th and M Streets, SE	016	05/13/15	*			
21	14th and M Streets, SE	017	05/13/15	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	05/14/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	05/14/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/14/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/14/15	*			
22e	14th Street and Kentucky Ave, SE	018	05/14/15	*			
23	Independence Ave, 21st Street, SE, Extended	019	05/04/15	*			
24a	East Capitol St, west of RFK stadium	019	05/04/15	*			
28	21st and Constitution Ave, NW	020	05/01/15	*			
29	22nd Street, between Constitution Ave and C St, NW	020	05/01/15	*			
30	17th and D Streets, NW	020	05/08/15	*			
31	15th Street and Pennsylvania Ave, NW	020	05/08/15	*			
33	10th and F Streets, NW	020	05/08/15	*			
34	23rd Street, north of Constitution Ave, NW	020	05/01/15	*			
34a	23rd Street near C Street, NW	020	05/01/15	*			
35	Northeast of Roosevelt Bridge, NW	021	05/18/15	*			
36	27th and I Streets, NW	022	05/06/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/18/15	*			
36b	19th and L Streets, NW	022, 034	05/12/15	*			
36d	17th and L Streets, NW	022, 034	05/12/15	*			
36g	18th and M Streets, NW	022, 034	05/12/15	*			
36h	18th and M Streets, NW	022, 034	05/12/15	*			
37	27th and Eye Streets, NW	022	05/06/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
38	29th and K Streets, NW	024	05/04/15	*			
38a	30th Street, south of K Street, NW	024	05/19/15	*			
39a	30th and K Streets, NW	024	05/04/15	*			
39b	30th and K Streets, NW	024	05/14/15	*			
41b	31st and K Streets, NW	025	05/12/15	*			
41c	31st and K Streets, NW	025	05/12/15	*			
42	Wisconsin Ave and K Street, NW	026	05/12/15	*			
43	Potomac and Water Streets, NW	027	05/12/15	*			
43a	Potomac and Water Streets, NW	027	05/12/15	*			
44	Water Street, west of Potomac St, NW	027	05/12/15	*			
45	36th and M Streets, NW	028	05/12/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/12/15	*			
47	38th Street and Reservoir Road, NW	029	05/12/15	*			
47a	37th and T Streets, NW	029	05/12/15	*			
47b	37th and T Streets, NW	029	05/12/15	*			
47c	38th and W Streets, NW	029	05/19/15	*			
49[1]	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	05/18/15	*			
51	N Street Extended, west of 25th Street, NW	033	05/18/15	*			
52	22nd Street between M and N Streets, NW	034	05/18/15	*			
52a	N Street between 22nd and 23rd Streets, NW	034	05/18/15	*			
53	22nd and M Streets, NW	022, 034	05/18/15	*			
53a	22nd and M Streets, NW	022, 034	05/18/15	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	05/18/15	*			
53c	L and 22nd Streets, NW	022	05/18/15	*			
54	23rd and O Streets, NW	034	05/12/15	*			
55	22nd Street, south of Q Street, NW	035	05/12/15	*			
55a	22nd Street, south of Q Street, NW	035	05/12/15	*			
56	23rd and Massachusetts Ave, NW	036	05/12/15	*			
57	23rd Street, south of Q Street, NW	036	05/12/15	*			
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	05/06/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	05/06/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/06/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/14/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	05/14/15	*			
64	Adams Mill Road, south of Irving Street, NW	043	05/14/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	05/14/15	*			
65a	Kenyon Street and Adams Mill Road, NW	044	05/14/15	*			
66	Adams Mill Road and Lamont Street, NW	045	05/14/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	05/14/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	05/14/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	05/14/15	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	05/14/15	*			
70i	5th and Quackenbos Streets, NW	049	05/13/15	*			
71	28th Street, west of Rock Creek Parkway, NW	050	05/14/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	05/12/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	05/12/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	05/12/15	*			
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	05/06/15	*			
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	26th and P Streets, NW	060	05/12/15	*			
84a	26th and P Streets, NW	060	05/12/15	*			

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

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	05/18/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	05/07/15	*		*		*		*		
006[1]	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11th St. and Anacostia Bridges, SE	05/07/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/02/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/02/15	*			*			*		
011	Main Sewage Pumping Station, SE	05/02/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/02/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	05/02/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	05/02/15	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	05/02/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/02/15	*			*			*		
016	12th and O Streets, SE	05/02/15	*		*		*		*		
017	M and Water Street, SE	05/02/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	05/02/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	05/02/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	05/07/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/07/15	*			*			*		
022	Rock Creek Parkway and G St., NW	05/07/15	*		*		*		*		
024	South of 30th and K Streets, NW[1]	05/07/15	*		*		*		*		
025	South of 31st and K Streets, NW	05/07/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	05/07/15	*		*		*		*		
027	33rd and Water Sts., NW	05/07/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/07/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	05/07/15	*		*		*		*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
031[1]	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	05/18/15	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/18/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	05/12/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	05/12/15	*		*		*		*		
036	22nd Street, South of Q Street NW.	05/19/15	*		*		*		*		
037[1]	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/06/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/06/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/06/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	05/19/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	05/19/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	05/19/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	05/19/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	05/19/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	05/14/15	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	05/14/15	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	05/14/15	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	05/14/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	05/14/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	05/07/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	05/07/15	*		*		*		*		
053[1]	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	05/06/15	*		*		*		*		
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	05/06/15	*		*		*		*		

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 Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*[1]
Main	31	4	10	#4 Pump	5/01/15 - 5/31/15	Pump being rehabbed W/O # 14-288560	7/31/15
Eastside	4	2	4	None	N/A	N/A	NONE
Poplar Point	4	2	3	#1 Screen	5/01/15 - 5/15/15	Screen being rehabbed W/O # 15-145414	5/15/15
Potomac	31	4	5	#1 Screen #2 Screen	5/01/15 - 5/31/15 5/15/15 - 5/31/15	Screen being rehabbed W/O # 15-146919 Screen being rehabbed W/O # 15-232977	7/31/15 6/15/15

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

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	5/31/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	5/31/15	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

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*[1]
Main	1,696.69	54.73	N/A	N/A	N/A
O St	117.20	3.78	N/A	N/A	N/A
Eastside	174.18	5.62	N/A	N/A	N/A
Poplar Point	699.22	22.56	N/A	N/A	N/A
Potomac	3,840.10	123.87	N/A	N/A	N/A
Rock Creek	400.64	12.92	N/A	N/A	N/A
Upper Anacostia	155.97	5.03	N/A	N/A	N/A
Earle Place	0.13	0.004	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 Inspected	*# of Screens*	*# of Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
5/12	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*
5/31	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 compressor storage tank
Check all safety equipment

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

Date	*Approx. Storm Duration (hrs)*[1]	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume (mg)*[2]	*Approx. Screenings Volume (Cu. ft)*
5/16/2015	3	0.55	0.55	0.0	108
5/18/2015	7.5	3.07	3.82	0.0	132

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

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

Notes:
1. River: River Outfall

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

	Flow Composited Sample Results						
Date	*Total suspended solids (mg/L)*	*Nitrite (NO2-N) mg/L*	*Nitrate (NO3-N)) mg/L*	*Total Kjeldahl Nitrogen (mg/L as N)*	*Total Nitrogen (mg/L)*	*Total Phosphorus (mg/L)*	*Carbonaceous Biological Oxygen Demand (mg/L)*
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.5 Inflatable Dams

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

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

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	5/27	**No**	**N/A**	**N/A**	**N/A**
14 - West	5/27	**No**	**N/A**	**N/A**	**N/A**
15	5/27	**No**	**N/A**	**N/A**	**N/A**
15A	5/29	**No**	**N/A**	**N/A**	**N/A**
16 - East	5/27	**No**	**N/A**	**N/A**	**N/A**
16 - West	5/27	**No**	**N/A**	**N/A**	**N/A**
24 - North	5/27	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	5/27	**No**	**N/A**	**N/A**	**N/A**
24 - South	5/27	**No**	**N/A**	**N/A**	**N/A**
34	5/27	**No**	**N/A**	**N/A**	**N/A**
35	5/27	**No**	**N/A**	**N/A**	**N/A**
52	5/27	**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*	*N/A*
15A	*None*	*N/A*
16 (E & W)	*None*	*N/A*
24	*5/1* *5/16*	*9 mins* *1hr, 43 min*
34	*None*	*N/A*
35	*None*	*N/A*
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 during May 2015.

Sanitary Sewer Overflows:

Location	2930 Arizona Ave., NW
Cause	DC Water dispatched a sewer maintenance crew to investigate a service call regarding a sewer back up at 2930 Arizona Ave., NW. The crew found a manhole blocked by a buildup of grease and debris that flooded the resident's basement.
Date/ Time Discovered	May 7, 2015 at approximately 10:45 PM
Action Taken	They removed a buildup of grease and debris in the manhole to clear the obstruction in the sewer.
Date/Time Discharge Ceased	May 8, 2015 at approximately 12:00 AM
Estimated Volume	10 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	DC Water – Department of Sewer Services performed closed circuit television inspection of the 10 inch sewer main to determine whether additional steps may be needed to prevent a recurrence at this location.

Location	800 block of Rhode Island Ave., NE
Cause	The District of Columbia Water and Sewer Authority (DC Water) received a service call regarding an overflowing sewer manhole. A sewer maintenance crew was dispatched to the site to investigate the report. The crew found an overflowing manhole in the 800 block of M Street, NE
Date/ Time Discovered	May 26, 2015 at approximately 1:30 PM
Action Taken	They removed a buildup of grease and debris in the manhole to clear the obstruction in the sewer and closed circuit television camera inspection performed at the time showed that the pipe was fully open.
Date/Time Discharge Ceased	May 26, 2015 at approximately 5:00 PM,
Estimated Volume	500 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	The DC Water Department of Sewer Services will performed closed circuit television inspection of the 15 inch sewer to determine whether additional steps may be needed to prevent a recurrence at this location.

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*					
						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*	*Total Anacostia CBs Inspected Once this Year*	*Total Anacostia CBs Inspected Twice this Year*	Total	In CSS	Total	In CSS	Total	In CSS
1	1338	1338	1338	63	0	94	94	3	3	97	97
2	3320	2961	911	376	6	493	383	10	10	503	393
3	3237	374	0	0	0	51	0	26	0	77	0
4	3002	1683	31	0	0	180	146	378	196	558	342
5	3703	1886	1738	310	0	436	307	25	14	461	321
6	3686	3106	3068	1574	63	1997	1608	11	10	2008	1618
7	3144	52	33	33	33	3724	79	288	0	4012	79
8	2512	347	347	347	139	1221	73	949	278	2170	351
Subtotal	**23942**	**11747**	**7466**	**2707**	**241**	**8196**	**2690**	**1690**	**511**	**9886**	**3257**
DDOT (via VMS) Subtotal											
Grand Total	**23942**	**11747**	**7466**	**2707**							
% Cleaned/Inspected to Date				**36%**	**0.03%**					**41%**	**28%**

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	5/7/2015	Good	Replaced nets	Nets replaced	600 pounds
Bar Rack CSO 040	5/6/2015	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	5/19/2015	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:	20
Days not Operating	6
Reason not Operating	Environmental (5). Fleet troubleshooting and maintenance (1).
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	1 Skimmer
Dates	B28: 5/7 - 5/31 B29: 5/1 - 5/26, 5/29 - 5/31 B32: 5/11
Reason	B28: no reverse power B29: losing power while operating B32: Fleet conducting PM
Plan to Restore to Service	B28: waiting for parts. ETR June 2015 B29: returned to operation 1 June 2015 B32: returned to operations 11 May 2015
Volume Material Collected	50 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: Wayne Reed

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WER	5/30	X			
Bar Racks at Main Storm Pumps (CSO 011)	WER	5/30	X			

4.2 Rain Data

Rain 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	Reagan National Airport
5/1/2015	0.27	0.24	0.17	n/a	0.11
5/2/2015	0	0	0	n/a	0
5/3/2015	0	0	0	n/a	0
5/4/2015	0	0	0	n/a	0
5/5/2015	0.05	0.05	0	n/a	0.05
5/6/2015	0	0	0	n/a	0.00
5/7/2015	0	0	0	n/a	0
5/8/2015	0	0	0	n/a	0
5/9/2015	0	0	0	n/a	0.00
5/10/2015	0	0	0	n/a	0
5/11/2015	0	0	0	n/a	0
5/12/2015	0	0	0	n/a	0
5/13/2015	0	0	0	n/a	0
5/14/2015	0	0	0	n/a	0
5/15/2015	0	0	0	n/a	0
5/16/2015	0.52	0.31	0.49	n/a	0.66
5/17/2015	0	0	0.17	n/a	0.00
5/18/2015	1.71	1.20	0.82	n/a	0.76
5/19/2015	0.05	0.03	0.01	n/a	0
5/20/2015	0	0	0	n/a	0
5/21/2015	0.30	0.18	0.25	n/a	0.33
5/22/2015	0	0	0	n/a	0
5/23/2015	0	0	0	n/a	0
5/24/2015	0	0	0	n/a	0
5/25/2015	0	0	0	n/a	0
5/26/2015	0	0	0	n/a	0
5/27/2015	0	0	0	n/a	0.01
5/28/2015	0	0	0	n/a	0.00
5/29/2015	0	0	0	n/a	0
5/30/2015	0	0	0	n/a	0
5/31/2015	0	0	0	n/a	0
TOTAL	2.90	2.01	1.91	n/a	1.92

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

Monthly Operations Report
For
Combined Sewer System
Month: June 2015

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

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

Monthly Operations Report for Combined Sewer System
Month: June 2015

Table of Contents

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 Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/03/15	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/03/15	*			
5	Poplar Point Pumping Station	004	06/04/15	*			
6	Chicago Street and Railroad Ave, SE	005	06/04/15	*			
7	W Street and Railroad Ave, SE	005	06/02/15	*			
8[1]	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13th Street and Ridge Place, SE	007	06/16/15	*			
11	"O" Street Pumping Station	011(a)	06/16/15	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/16/15	*			
13	2nd Street, 300 ft. north of N Place, SE	009	06/16/15	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	06/16/15	*			
15	South Capitol and E Streets	010	06/16/15	*			
15a	Half and L Streets, SE	010	06/04/15	*			
15b	South Capitol and I Streets	010	06/09/15	*			
15c	South Capitol and I Streets	010	06/09/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	06/16/15	*			
17	4th and N Streets, SE, Both Extended	013	06/16/15	*			
17a	K Street between 6th Street and 7th Street, SE	013	06/10/15	*			
18	6th and M Streets, SE	014	06/15/15	*			
19	9th and M Streets, SE	015	06/16/15	*			
19a	9th and M Streets, SE	015	06/16/15	*			
20	12th and M Streets, SE	016	06/16/15	*			
20a	12th and M Streets, SE	016	06/16/15	*			
21	14th and M Streets, SE	017	06/10/15	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	06/04/15	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	06/04/15	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	06/04/15	*			
22d	Kentucky Ave and Potomac Street, SE	018	06/04/15	*			
22e	14th Street and Kentucky Ave, SE	018	06/04/15	*			
23	Independence Ave, 21st Street, SE, Extended	019	06/10/15	*			
24a	East Capitol St, west of RFK stadium	019	06/10/15	*			
28	21st and Constitution Ave, NW	020	06/11/15	*			
29	22nd Street, between Constitution Ave and C St, NW	020	06/08/15	*			
30	17th and D Streets, NW	020	06/11/15	*			
31	15th Street and Pennsylvania Ave, NW	020	06/11/15	*			
33	10th and F Streets, NW	020	06/11/15	*			
34	23rd Street, north of Constitution Ave, NW	020	06/11/15	*			
34a	23rd Street near C Street, NW	020	06/11/15	*			
35	Northeast of Roosevelt Bridge, NW	021	06/08/15	*			
36	27th and I Streets, NW	022	06/08/15	*			
36a	New Hampshire Ave and Eye Street, NW	022	06/08/15	*			
36b	19th and L Streets, NW	022, 034	06/08/15	*			
36d	17th and L Streets, NW	022, 034	06/08/15	*			
36g	18th and M Streets, NW	022, 034	06/08/15	*			
36h	18th and M Streets, NW	022, 034	06/08/15	*			
37	27th and Eye Streets, NW	022	06/04/15	*			
38	29th and K Streets, NW	024	06/10/15	*			
38a	30th Street, south of K Street, NW	024	06/10/15	*			
39a	30th and K Streets, NW	024	06/10/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
39b	30th and K Streets, NW	024	06/10/15	*			
41b	31st and K Streets, NW	025	06/10/15	*			
41c	31st and K Streets, NW	025	06/10/15	*			
42	Wisconsin Ave and K Street, NW	026	06/02/15	*			
43	Potomac and Water Streets, NW	027	06/02/15	*			
43a	Potomac and Water Streets, NW	027	06/02/15	*			
44	Water Street, west of Potomac St, NW	027	06/02/15	*			
45	36th and M Streets, NW	028	06/03/15	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	06/10/15	*			
47	38th Street and Reservoir Road, NW	029	06/03/15	*			
47a	37th and T Streets, NW	029	06/03/15	*			
47b	37th and T Streets, NW	029	06/03/15	*			
47c	38th and W Streets, NW	029	06/03/15	*			
49[1]	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	06/11/15	*			
51	N Street Extended, west of 25th Street, NW	033	06/11/15	*			
52	22nd Street between M and N Streets, NW	034	06/09/15	*			
52a	N Street between 22nd and 23rd Streets, NW	034	06/10/15	*			
53	22nd and M Streets, NW	022, 034	06/10/15	*			
53a	22nd and M Streets, NW	022, 034	06/02/15	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	06/02/15	*			
53c	L and 22nd Streets, NW	022	06/02/15	*			
54	23rd and O Streets, NW	034	06/09/15	*			
55	22nd Street, south of Q Street, NW	035	06/09/15	*			
55a	22nd Street, south of Q Street, NW	035	06/09/15	*			
56	23rd and Massachusetts Ave, NW	036	06/09/15	*			
57	23rd Street, south of Q Street, NW	036	06/09/15	*			
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	06/10/15	*			
60	Connecticut Ave, east of Rock Creek, NW	039	06/02/15	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	06/02/15	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	06/16/15	*			
63	Harvard Street and Rock Creek Parkway, NW	042	06/16/15	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/16/15	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/16/15	*			

Structure Number	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
65a	Kenyon Street and Adams Mill Road, NW	044	06/16/15	*			
66	Adams Mill Road and Lamont Street, NW	045	06/16/15	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	06/16/15	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	06/16/15	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/16/15	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	06/16/15	*			
70i	5th and Quackenbos Streets, NW	049	06/02/15	*			
71	28th Street, west of Rock Creek Parkway, NW	050	06/16/15	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/15	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/15	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/18/15	*			
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	06/18/15	*			
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	26th and P Streets, NW	060	06/18/15	*			
84a	26th and P Streets, NW	060	06/18/15	*			

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

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	06/03/15	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/02/15	*		*		*		*		
006[1]	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11th St. and Anacostia Bridges, SE	06/11/15	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/09/15	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/03/15	*			*			*		
011	Main Sewage Pumping Station, SE	06/03/15	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/03/15	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/03/15	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6th St., SE	06/09/15	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/09/15	*			*			*		
016	12th and O Streets, SE	06/03/15	*		*		*		*		
017	M and Water Street, SE	06/03/15	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	06/09/15	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	06/09/15	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/15/15	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/15/15	*			*			*		
022	Rock Creek Parkway and G St., NW	06/15/15	*		*		*		*		
024	South of 30th and K Streets, NW[1]	06/15/15	*		*		*		*		
025	South of 31st and K Streets, NW	06/15/15	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	06/15/15	*		*		*		*		.
027	33rd and Water Sts., NW	06/15/15	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	06/15/15	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	06/15/15	*		*		*		*		
031[1]	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	06/11/15	*			*			*		

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
033	Across street from St. Francis Jr. High and aligned with N St., NW.	06/11/15	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/09/15	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	06/17/15	*		*		*		*		
036	22nd Street, South of Q Street NW.	06/19/15	*		*		*		*		
037[1]	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/02/15	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/02/15	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/17/15	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	06/17/15	*		*		*		*		
042	Harvard St. and Beach Dr NW.	06/17/15	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/17/15	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/17/15	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	06/16/15	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	06/16/15	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	06/16/15	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	06/16/15	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	06/16/15	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/17/15	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	06/17/15	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	06/17/15	*		*		*		*		
053[1]	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	06/18/15	*		*		*		*		
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	06/17/15	*		*		*		*		

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 Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*[1]
Main	30	4	4	Pump #4	6/01/15 - 6/30/15	Pump being rehabbed/ WO# 15-244535	7/31/2015
				Screen #1	6/25/15 - 6/30/15	Screen being rehabbed/ WO# 15-266354	7/31/2015
				Screen #4	6/04/15 - 6/30/15	Screen being rehabbed/ WO# 15-244329	7/31/2015
Eastside	2	2	4	None	N/A	N/A	
Poplar Point	3	2	3	Screen #2	6/12/15 - 6/30/15	Screen being rehabbed/ WO# 15-249437	7/31/2015
Potomac	30	4	5	Screen #1	6/01/15 - 6/30/15	Screen being rehabbed/ WO# 15-249576	7/31/2015
				Pump #4	6/04/15 - 6/30/15	Pump out of service/ WO# 15-244097	7/31/2015
				Pump #5	6/04/15 - 6/30/15	Pump out of service/ WO# 15-244097	7/31/2015

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

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	6/04/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	6/29/15	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	6/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	6/04/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	6/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	6/15/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	6/04/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	6/22/15	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

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*[1]
Main	2565.06	85.50	N/A	N/A	N/A
O St	163.02	5.43	6/01/15	73.2	Normal
			6/02/15	51.5	Normal
			6/04/15	26.9	Normal
			6/08/15	36.9	Normal
			6/09/15	1.0	Normal
			6/14/15	28.7	Normal
			6/15/15	0.9	Normal
			6/20/15	63.8	Normal
			6/21/15	12.7	Normal
			6/23/15	27.2	Normal
			6/25/15	10.2	Normal
			6/27/15	140.1	Normal
			6/28/15	18.5	Normal
Eastside	406.50	13.55	N/A	N/A	N/A
Poplar Point	636.03	21.20	N/A	N/A	N/A
Potomac	3945.26	131.51	N/A	N/A	N/A
Rock Creek	467.50	15.58	N/A	N/A	N/A
Upper Anacostia	183.75	6.13	N/A	N/A	N/A
Earl Place	0.24	0.01	N/A	N/A	N/A

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

2.4 Northeast Boundary Swirl Facility

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

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

Date Inspected	*# of Screens*	*# of Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
6/16/15	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*
6/15/15	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 compressor storage tank
Check all safety equipment

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

Date	*Approx. Storm Duration (hrs)*[1]	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume (mg)*[2]	*Approx. Screenings Volume (Cu. ft)*
6/1/2015	7	3.3	3.3	0.0	48
6/2/2015	7.5	0.0	0.0	0.0	24
6/4/2015	4.5	10.8	3.7	0.0	24
6/8/2015	5.5	16.8	2.9	13.9	0
6/9/2015	4	2.5	2.5	0.0	0
6/14/2015	4.5	10.9	4.3	0.0	0
6/18/2015	3.5	9.4	4.7	0.0	0
6/20/2015	9	32.0	1.9	30.1	40
6/21/2015	11.5	4.4	3.2	1.2	0
6/23/2015	5	17.0	4.0	13.0	80
6/25/2015	3.5	10.2	3.1	0.0	0
6/27/2015	6	11.8	4.6	7.1	36
6/27/2015	6	29.8	3.3	26.5	24
6/27/2015	4	25.1	4.6	20.5	60

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

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*E. Coli Test Results*	
		NaOCl (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*
6/20/2015	Yes	3.1	0	Mix Chamber	0	Mix Chamber	37000
				Anacostia River[1]	0	Anacostia River[1]	<10
6/27/2015	Yes	*	0	Mix Chamber	0.1	Mix Chamber	29000
				Anacostia River[1]	0.1	Anacostia River[1]	22000

Notes:
1. River: River Outfall
2. *Hose failed on chemical feeder. The hose was repaired on 6/28/15.

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

	Flow Composited Sample Results						
Date	*Total suspended solids (mg/L)*	*Nitrite (NO2-N) mg/L*	*Nitrate (NO3-N)) mg/L*	*Total Kjeldahl Nitrogen (mg/L as N)*	*Total Nitrogen (mg/L)*	*Total Phosphorus (mg/L)*	*Carbonaceous Biological Oxygen Demand (mg/L)*
6/20/2015	71.0	0.03	0.60	1.54	2.17	0.26	9.18
6/27/2015	80.0	0.00	0.38	1.47	1.85	0.40	8.34

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 Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	6/16/15	**No**	**N/A**	**N/A**	**N/A**
14 - West	6/16/15	**No**	**N/A**	**N/A**	**N/A**
15	6/16/15	**No**	**N/A**	**N/A**	**N/A**
15A	6/16/15	**No**	**N/A**	**N/A**	**N/A**
16 - East	6/16/15	**No**	**N/A**	**N/A**	**N/A**
16 - West	6/16/15	**No**	**N/A**	**N/A**	**N/A**
24 - North	6/16/15	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	6/16/15	**No**	**N/A**	**N/A**	**N/A**
24 - South	6/16/15	**No**	**N/A**	**N/A**	**N/A**
34	6/29/15	**No**	**N/A**	**N/A**	**N/A**
35	6/29/15	**No**	**N/A**	**N/A**	**N/A**
52	6/29/15	**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	*6/27*	*19 mins*
15A	*6/8*	*60 mins*
	6/14	*60 mins*
	6/20	*41 mins*
	6/27	*2 hrs, 35 mins*
16 (E & W)	*None*	*N/A*
24	*6/8*	*5 mins*
	6/14	*14 mins*
	6/20	*23 mins*
	6/23	*14 mins*
	6/25	*2 mins*
	6/27	*16 mins*
34	*6/8*	*22 mins*
	6/14	*3 mins*
35	*6/14*	*17 mins*
	6/18	*3 mins*
	6/20	*4 mins*
	6/23	*50 mins*
	6/27	*31 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	This structure has been bulk headed. Overflows are no longer possible.

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during June 2015.

Sanitary Sewer Overflows:

Location	3700 block of 4th Street, SE
Cause	DC Water dispatched a sewer maintenance crew to investigate a service call regarding an overflowing manhole near 3719 4th Street, SE. The crew found a buried manhole that was partially collapsed and overflowing unto a grassy sidewalk.
Date/ Time Discovered	June 24, 2015 at approximately 3:00 PM
Action Taken	The crew removed debris in the manhole to clear the obstruction in the sewer.
Date/Time Discharge Ceased	June 24, 2015 at approximately 10:00 PM
Estimated Volume	200 gallons.
Did Overflow Reach Receiving water?	No.
Action taken to prevent reoccurrence	DC Water rebuilt the manhole and will conduct closed circuit television inspection of the 10 inch sewer main to determine whether additional steps may be needed to prevent a recurrence at this location.

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*					
						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*	*Total Anacostia CBs Inspected Once this Year*	*Total Anacostia CBs Inspected Twice this Year*	Total	In CSS	Total	In CSS	Total	In CSS
1	1338	1338	1338	79	0	97	97	20	20	117	117
2	3320	2961	911	401	6	503	393	85	85	588	478
3	3237	374	0	0	0	77	0	55	0	132	0
4	3002	1683	31	0	0	558	342	1342	698	1900	1040
5	3703	1886	1738	353	0	461	321	61	48	522	369
6	3686	3106	3068	1872	63	2008	1618	78	78	2086	1696
7	3144	52	33	33	33	4012	79	19	0	4031	79
8	2512	347	347	347	151	2170	351	80	0	2250	351
Subtotal	**23942**	**11747**	**7466**	**3085**	**253**	**9886**	**3201**	**1740**	**929**	**11626**	**4130**
DDOT (via VMS) Subtotal											
Grand Total	**23942**	**11747**	**7466**	**3085**							
% Cleaned/Inspected to Date				**41%**	**3%**					**49%**	**35%**

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	6/22/2015	Good	Clean grates	Grates cleaned	None
Bar Rack CSO 040	6/17/2015	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	6/17/2015	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	4
Reason not Operating	Environmental (3). Fleet troubleshooting and maintenance (1)
# Skimmer in Fleet	3 Skimmers
# Skimmers Out of Service	3 Skimmer
Dates	B28: 6/1 - 6/30; B29: 6/30; B32: 6/19 - 6/30
Reason	B28: no power in reverse. B29: fuel oil leak. B32: wing screen jammed.
Plan to Restore to Service	B28: unknown. B29: Fleet troubleshooting. ETR July 2015. B32: Waiting for parts. ETR July 2015.
Volume Material Collected	80 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: Wayne Reed

Pumping Station	Inspector	Date Inspected	Condition		Work Needed	Work Performed or Schedule for Completion
			Good	Needs Work		
Bar Racks at O Street Storm Pumps (CSO 010)	WER	6/25	X			
Bar Racks at Main Storm Pumps (CSO 011)	WER	6/25	X			

4.2 Rain Data

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

Date	Brentwood Pumping Station	Bryant Street Pumping Station	Main Pumping Station	Rock Creek Pumping Station	Reagan National Airport
6/1/2015	2.88	1.46	1.86	n/a	2.49
6/2/2015	0.45	0.36	0.38	n/a	0.46
6/3/2015	0.01	0.08	0.02	n/a	0.01
6/4/2015	0.61	0.36	0.42	n/a	0.37
6/5/2015	0.15	0.03	0.05	n/a	0.03
6/6/2015	0	0	0	n/a	0
6/7/2015	0	0	0	n/a	0
6/8/2015	1.45	0.79	0.94	n/a	0.65
6/9/2015	0	0	0	n/a	0
6/10/2015	0	0	0	n/a	0
6/11/2015	0	0	0	n/a	0
6/12/2015	0	0	0.01	n/a	0.02
6/13/2015	0	0	0	n/a	0
6/14/2015	0.64	0.69	0.84	n/a	0.52
6/15/2015	0	0	0.01	n/a	0.08
6/16/2015	0	0	0	n/a	0
6/17/2015	0.07	0.06	0.07	n/a	0.18
6/18/2015	0.74	0.65	0.34	n/a	0.53
6/19/2015	0.12	0.02	0.02	n/a	0.12
6/20/2015	2.27	1.69	2.18	n/a	2.37
6/21/2015	0.01	0.02	0.03	n/a	0.03
6/22/2015	0	0	0	n/a	0
6/23/2015	1.34	1.06	0.85	n/a	0.84
6/24/2015	0	0	0	n/a	0
6/25/2015	0.82	0.82	0.48	n/a	0.48
6/26/2015	0	0.02	0	n/a	0
6/27/2015	2.22	2.05	2.74	n/a	2.75
6/28/2015	0.39	0	0.01	n/a	0
6/29/2015	0.02	0	0	n/a	0
6/30/2015	0.01	0	0	n/a	0.01
TOTAL	14.20	10.16	11.25	n/a	11.94

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: April, May, June 2015
SCENARIO: Y2015_Q2, produced July 13, 2015

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	18	9.55	59.25	3.29	13.50	0.75
006	Good Hope Road, West of Nichols Ave.,SE	separated					
007	13th Street and Ridge Place,SE	13	17.35	31.00	2.38	8.50	0.50
009	2nd Street, 300 feet North of N Place, SE	13	6.98	28.00	2.15	6.75	0.25
010	O Street SewagePumping Station, SE (pumped Overflow)	13	95.83	21.00	1.62	6.75	0.25
011	South of Main Sewage Pumping Station, SE (pumped overflow)	3	2.50	0.75	0.25	0.25	0.25
011a	South of Main SewagePumping Station, SE (gravity overflow)	0	0.00	0.00	0.00	0.00	0.00
012	North of Main SewagePumping Station, SE (Tiber Creek)	6	47.44	13.00	2.17	3.25	1.00
013	4th and N Streets, SE	14	6.51	34.25	2.45	10.00	0.25
014	6th and M Streets, SE	13	17.96	42.00	3.23	11.25	0.75
015	9th and M Streets, SE	14	4.90	19.25	1.38	4.75	0.25
016	12th and M Streets, SE	12	13.60	24.50	2.04	6.25	0.50
017	14th and M Streets, SE	16	26.86	61.00	3.81	14.75	0.25
018	Barney Circle andPennsylvania Ave, SE	15	19.45	41.50	2.77	9.75	0.25
019	Northeast Boundary - Swirl Effluent	9	331.05	96.75	10.75	21.50	0.25
019	Northeast Bound. - Swirl Bypass	13	277.51	23.00	1.77	8.00	0.25
	SUBTOTAL		**877.50**				
Potomac CSOs							
003	Bolling AFB	3	4.30	10.75	3.58	5.25	2.50
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	12	40.35	28.00	2.33	6.25	0.25
021	Northeast ofRoosevelt Bridge, NW	13	228.41	32.50	2.50	7.25	0.25
022	27th and K Streets, NW	17	35.56	44.00	2.59	8.00	0.25
024	30th and K Streets, NW	14	28.02	50.00	3.57	12.00	0.25
025	31st & K St NW	11	1.03	9.00	0.82	2.00	0.25
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West ofStreet, NW	20	22.21	87.25	4.36	19.00	0.25
028	36th and M Streets, NW	18	3.52	32.00	1.78	8.00	0.25
029	Canal Road 1000 feet east of Rock Creek,NW	10	9.58	14.75	1.48	3.50	0.25
	SUBTOTAL		**372.99**				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	separated					
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00
033	N Street extendedwest of 25th Street,NW	1	0.03	0.75	0.75	0.75	0.75
034	23rd and O Streets, SW	0	0.00	0.00	0.00	0.00	0.00
035	22nd Street south of Q Street, NW	0	0.00	0.00	0.00	0.00	0.00
036	22nd Street South of Q Street, NW	13	0.895	23.00	1.77	4.50	0.50
037	Northwest of Belmontand Rock Creek and Potomac Parkway	separated					
038	North of Belmont Road,east of Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00
039	Connecticut Avenue east of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
040	Biltmore Street extended east of RockCreek, NW	1	0.01	0.25	0.25	0.25	0.25
041	Ontario extended and Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: April, May, June 2015
SCENARIO: Y2015_Q2, produced July 13, 2015

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
042	Harvard Street and RockCreek Parkway, NW	1	0.01	0.25	0.25	0.25	0.25
043	Adams Mill Road South of Irving Street, NW	8	1.73	3.50	0.44	0.75	0.25
044	Kenyon Street and Adams Mill Road, NW	3	0.00	0.75	0.25	0.25	0.25
045	Adams Mill Road and Lamont Street, NW	9	0.22	4.00	0.44	1.00	0.25
046	Park Road south of Piney Branch Parkway, NW	7	0.05	2.25	0.32	0.50	0.25
047	Ingleside Terrace extended and Piney Branch Parkway	5	0.01	1.25	0.25	0.25	0.25
048	Mt. Pleasant Street extended and Piney Branch Parkway	8	0.42	3.00	0.38	0.75	0.25
049	Piney Branch and LamontStreet, NW	13	43.883	32.50	2.50	7.00	0.25
050	28th Street west of 16th Street, NW	0	0.00	0.00	0.00	0.00	0.00
051	Olive Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
052	O Street extended and Rock Creek Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
053	O Street west of Rock Creek Parkway, NW	separated					
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.00	0.00	0.00	0.00	0.00
056	Normanstone Drive extended west of Rock Creek, NW	0	0.00	0.00	0.00	0.00	0.00
057	28th Street extended west of Rock Creek, NW	separated					
058	Connecticut Avenue and Rock Creek Parkway, NW	separated					
060	P St and 26th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		**47.25**				
	TOTAL		**1,297.73**				

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