



David L. Gadis, Chief Executive Officer

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 1385 CANAL STREET, SE | WASHINGTON, DC 20003

April 25, 2022

Clarissa Poole  
Records Manager  
EPA Region III, 3WP60  
1650 Arch Street  
Philadelphia, PA 19103-2029  
[Poole.Clarissa@epa.gov](mailto:Poole.Clarissa@epa.gov)

Dear Ms. Poole:

In accordance with Part III.E. of the NPDES Permit, enclosed is the First Quarter Operations Report for the District of Columbia's Combined Sewer Overflow Facilities for 2022. This report provides data on the following facilities and operations:

1. Regulators
2. Outfalls, Tide Gates and CSO Signs
3. Pumping Stations
4. Inflatable Dams
5. Major Combined Sewers
6. Catch Basin Cleaning
7. BMP Demonstration Projects
8. Skimmer Boat Programs
9. Visual Surveys at Main & O Street
10. Rainfall Data
11. Wet Weather Overflows

In addition, the report includes data results from the combined sewer system model.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you require additional information, please contact Mr. Kenrick StLouis, Vice-President, Pumping and Sewer Operations at (202) 612-3533.

Sincerely,

A handwritten signature in black ink, appearing to read "Kisha L. Powell". The signature is stylized and cursive.

Kisha L. Powell  
Chief Operating Officer and Executive Vice President

Enclosure

CC: Jeffrey Seltzer, DOEE

# QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FIRST QUARTER, 2022

Prepared By:

D.C. Water and Sewer Authority  
Department of Sewer Operations  
3101 Ames Place, NE  
Washington, D.C. 20032



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

**Monthly Operations Report For  
*Combined Sewer System***

**Month: January 2022**

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

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

*Monthly Operations Report for Combined Sewer System*  
*Month: January 2022*  
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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 two-thirds 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 advanced wastewater treatment plant at Blue Plains (BPAWWTP or the Blue Plains AWWTP). 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 MAINTENANCE

### 2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPAWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to the tunnel system for temporary storage, and CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1  
Regulator Structures**

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
2 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	01/28/22	*			
7	W Street and Railroad Ave, SE	005	01/28/22	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE (Diversion Structure)	007	01/28/22	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	01/28/22	*			
9b	11 <sup>th</sup> Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	01/27/22	*			
11	"O" Street Pumping Station	011(a)	01/28/22	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/27/22	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	01/19/22	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	01/19/22	*			
15	South Capitol and E Streets	010	01/19/22	*			
15a	Half and L Streets, SE	010	01/19/22	*			
15b	South Capitol and I Streets	010	01/14/22	*			
15c	South Capitol and I Streets	010	01/14/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	01/25/22	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	01/27/22	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	01/27/22	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	01/31/22	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	01/27/22	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	01/27/22	*			
19	9 <sup>th</sup> and M Streets, SE	015	01/27/22	*			
19a	9 <sup>th</sup> and M Streets, SE	015	01/27/22	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	01/27/22	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	01/27/22	*			
20	12 <sup>th</sup> and M Streets, SE	016	01/27/22	*			
20a	12 <sup>th</sup> and M Streets, SE	016	01/27/22	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	01/27/22	*			
21	14 <sup>th</sup> and M Streets, SE	017	01/27/22	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	01/27/22	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	01/27/22	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	01/27/22	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/27/22	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/27/22	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	01/27/22	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	01/18/22	*			
24a	East Capitol St, west of RFK stadium	019	01/18/22	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	01/10/22	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	01/10/22	*			
30	17 <sup>th</sup> and D Streets, NW	020	01/10/22	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	01/10/22	*			
33	10 <sup>th</sup> and F Streets, NW	020	01/10/22	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	01/19/22	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	01/10/22	*			
35	Northeast of Roosevelt Bridge, NW	021	01/19/22	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	01/19/22	*			
36	27 <sup>th</sup> and I Streets, NW	022	01/10/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
36a	New Hampshire Ave and Eye Street, NW	022	01/10/22	*			
36b	19 <sup>th</sup> and L Streets, NW	022, 034	01/10/22	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	01/10/22	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	01/10/22	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	01/10/22	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	01/10/22	*			
38	29 <sup>th</sup> and K Streets, NW	024	01/14/22	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	01/14/22	*			
39a	30 <sup>th</sup> and K Streets, NW	024	01/14/22	*			
39b	30 <sup>th</sup> and K Streets, NW	024	01/14/22	*			
41b	31 <sup>st</sup> and K Streets, NW	025	01/14/22	*			
41c	31 <sup>st</sup> and K Streets, NW	025	01/14/22	*			
42	Wisconsin Ave and K Street, NW	026	01/14/22	*			
43	Potomac and Water Streets, NW	027	01/14/22	*			
43a	Potomac and Water Streets, NW	027	01/14/22	*			
44	Water Street, west of Potomac St, NW	027	01/14/22	*			
45	36 <sup>th</sup> and M Streets, NW	028	01/18/22	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/18/22	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	01/18/22	*			
47a	37 <sup>th</sup> and T Streets, NW	029	01/18/22	*			
47b	37 <sup>th</sup> and T Streets, NW	029	01/18/22	*			
47c	38 <sup>th</sup> and W Streets, NW	029	01/18/22	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	01/24/22	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	01/24/22	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	01/19/22	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	01/19/22	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	01/19/22	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	01/19/22	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	01/18/22	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	01/18/22	*			
54	23 <sup>rd</sup> and O Streets, NW	034	01/21/22	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	01/21/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	01/21/22	*			
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	01/21/22	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	01/21/22	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	01/18/22	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/18/22	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/18/22	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/12/22	*			
63	Harvard Street and Rock Creek Parkway, NW	042	01/12/22	*			
64	Adams Mill Road, south of Irving Street, NW	043	01/12/22	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/12/22	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/12/22	*			
66	Adams Mill Road and Lamont Street, NW	045	01/12/22	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	01/12/22	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/12/22	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/12/22	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	01/12/22	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	01/24/22	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	01/18/22	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/21/22	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/21/22	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/21/22	*			
74 <sup>l</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/24/22	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	01/24/22	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	01/24/22	*			
78 <sup>l</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>l</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	01/21/22	*			
84a	26 <sup>th</sup> and P Streets, NW	060	01/21/22	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	01/14/22	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	01/14/22	*			



Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
89	First and V St, NW (First St Tunnel)	019	01/14/22	*			
90	First and V St, NW (First St Tunnel)	019	01/14/22	*			
91	First and V St, NW (First St Tunnel)	019	01/14/22	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	01/28/22	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	01/28/22	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	01/27/22	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	01/27/22	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	01/27/22	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	01/28/22	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	01/19/22	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	01/25/22	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	01/28/22	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	01/28/22	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	01/28/22	*			
104	Poplar Point PS Discharge Chamber	N/A	01/28/22	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	01/27/22	*			

Notes:

1. Noted structures no longer function as a combined sewer overflow regulator structure.

## 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 <sup>1</sup>	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	01/27/22	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	01/20/22	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	01/20/22	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/27/22	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/27/22	*			*			*		
011	Main Sewage Pumping Station, SE	01/27/22	*			*			*		
011a	Main Sewage Pumping Station, SE	01/27/22	*		*		*		*		
012	Main Sewage Pumping Station, SE	01/27/22	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	01/27/22	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	01/27/22	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/27/22	*			*			*		
016	12th and O Streets, SE	01/27/22	*		*		*		*		
017	M and Water Street, SE	01/26/22	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	01/26/22	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	01/26/22	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	01/26/22	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	01/20/22	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/20/22	*			*			*		
022	Rock Creek Parkway and G St., NW	01/20/22	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	01/20/22	*		*		*		*		
025	South of 31st and K Streets, NW	01/20/22	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	01/20/22	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	01/20/22	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/20/22	*			*			*		

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	
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	01/20/22	*			*			*		
031 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	01/24/22	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	01/24/22	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/21/22	*			*			*		
035	P St. Bridge and Rock Creek Parkway	01/21/22	*			*			*		
036	22nd Street, South of Q Street NW.	01/26/22	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/18/22	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/18/22	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/18/22	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/20/22	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/20/22	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/20/22	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/20/22	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/20/22	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	01/12/22	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	01/12/22	*		*		*		*		Tidegate unhinged. 21-560329 Repair complete 1/27/2022.
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	01/12/22	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	01/12/22	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/18/22	*		*		*		*		The flap gate has come off the hinges and is lying in the creek (about 4' of water). 22-44999 Repair Work complete 1/26/2022
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	01/26/22	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	01/26/22	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	01/24/22	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	01/24/22	*		*		*		*		

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	
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	01/26/22	*		*		*		*		

Notes:

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

### 2.3.1 Pumping Stations

Pumping station operations are summarized in the table below.

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

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Work Order Number</i>	<i>Schedule to Restore to Service</i>
Main	31	3	4	None	-	-	-	-
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	None	-	-	-	-
Potomac	31	4	5	Pump #5	01/01/22 – 01/31/22	Replace impellor and pump	22-159820	Anticipated 02/28/22. The pump has been disconnected for repair

**Table 2-4  
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed<sup>1,2</sup></i>	<i>Work Order Number</i>	<i>Comments</i>
Main	1/18/22	Group A	22-141056	Add oil, grease bearings and replace packing if needed.
O St	1/22/22	Group A	22-193824	Add oil, grease bearings and replace packing if needed.
Eastside	1/18/22	Group A	22-112936	Add oil, grease bearings and replace packing if needed.
Poplar Point	1/18/22	Group A	22-146190	Add oil, grease bearings and replace packing if needed.
Potomac	1/18/22	Group A	22-116405	Add oil, grease bearings and replace packing if needed.
Rock Creek	1/19/22	Group A	22-116419	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	1/11/22	Group A	22-146289	Add oil, grease bearings and replace packing if needed.
Earl Place	1/11/22	Group A	22-122619	Add oil, grease bearings and replace packing if needed.
1 <sup>st</sup> Street Tunnel Dewatering	1/15/22	Group B	22-190777	

Notes:

1. Group A consists of:
  - a. Exercise bar screens
  - b. Exercise all sump pumps
  - c. Drain condensation from air compressor storage tank
  - d. Check depth of screening in the screen room and schedule Vactor truck as required
  - e. Check all safety equipment
  - f. Issue work order requests as required
2. Group B consists of:
  - a. Inspect and manually run CSO Pumps
  - b. Generator:
    - i. Inspection operation and test, inspect oil level, inspect coolant level
  - c. MCC:
    - i. Test gas monitoring system
    - ii. Inspect and test level indicators
  - d. Valve Vault
    - i. Lubricate knife gate valve stem and stem nut
    - ii. Flush air and vacuum release valve

**Table 2-5  
Pumping Stations – Pumpage**

<i>Pumping Station</i>	<i>Sanitary Pumpage</i>		<i>Screenings Collected (tons)<sup>1</sup></i>	<i>Pumpage of CSO from First Street Tunnel back to Sewer System</i>	
	<i>Total Wastewater (mg)</i>	<i>Daily Average Wastewater (mg)</i>		<i>Date</i>	<i>Volume (mg)</i>
Main <sup>1,2</sup>	1598.53	51.57	N/A	N/A	N/A
O St <sup>1,2</sup>	118.97	3.84	N/A	N/A	N/A
Eastside	139.52	4.50	N/A	N/A	N/A
Poplar Point	357.39	11.53	N/A	N/A	N/A
Potomac	3820.85	123.25	N/A	N/A	N/A
Rock Creek	157.00	5.06	N/A	N/A	N/A
Upper Anacostia	42.66	1.38	N/A	N/A	N/A
Earl Place	0.233	0.008	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	1/12/22	0.18

Notes:

1. Screenings collected from the Main and O Street Pumping Stations are combined from the sanitary flow and combined sewer overflows, due to the design of the screening system that consists of vertical trash racks, with no mechanical cleaning. Therefore, quantification of captured screening materials, specifically from combined sewer overflows, is not feasible.
2. Flow meters have been installed in accordance with NPDES Permit No. DC002199 to record CSO discharges from Main and O Street Pumping Stations. This data is reported via Discharge Monitoring Reports submitted to the EPA on a monthly basis. A summary of metered and modeled CSO discharges is included in Section 5.

**2.4 Inflatable Dams and SCADA System**

DC Water operates and maintains nine inflatable dams at seven different locations. Table 2-6 summarizes the date(s) the inflatable dams were inspected, and their operational status and condition. 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 2-6  
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	1/19/22	<b>No</b>	N/A	N/A	N/A
14 - West	1/19/22	<b>No</b>	N/A	N/A	N/A
15	1/19/22	<b>No</b>	N/A	N/A	N/A
15A	1/19/22	<b>No</b>	N/A	N/A	N/A
16 – East	1/19/22	<b>No</b>	N/A	N/A	N/A
16 – West	1/19/22	<b>No</b>	N/A	N/A	N/A
34	1/19/22	<b>No</b>	N/A	N/A	N/A
35	1/19/22	<b>No</b>	N/A	N/A	N/A
52	1/19/22	<b>No</b>	N/A	N/A	N/A

Notes:



**Table 2-7  
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>Inflatable Dam Operational Status</i>
14 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15A	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
16 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
34	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
35	<i>01/16/22</i>	<i>0 hr., 12min</i>	<i>Deflated</i>
52	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>N/A</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 2	None	N/A	
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>	
Outfall Sewer Control Gate No.1	Operational	Open	
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	

### 3. DRY WEATHER OVERFLOWS

There was one dry weather combined sewer overflow reported during January 2022.

On January 25, 2022 at approximately 9:30 AM, DC Water Clean Rivers Project staff observed an unusual volume of flow during inspection of manholes in the vicinity of CSO 027. The Department of Pumping and Sewer Operations (DPSO) crew were dispatched to check CSO 027, but due to the tide level were unable to observe the flow. However, the crew did observe a large volume of clear water at Regulator Structure 43a. During their investigation, they entered the structure and inspected upstream to trace the source of the flow but could not identify a source. The crew also engaged the Department of Water Operations crews to investigate a possible water main break in the area, but those investigations were inconclusive.

On January 26, 2022 as the investigation continued, DC Water initiated the set-up of bypass pumping to mitigate the overflow into the Potomac. At approximately 7:00 PM, the crews found an 8-inch water main break that was flowing below ground into the 60-inch combined sewer upstream of Regulator Structure 43a. The large volume of flow from the water main break resulted in the dry weather overflow at CSO 027. At approximately 11:30 PM, the bypass pumping operation was set up and ceased the overflow condition.

On January 27, 2022 at approximately 11:00 AM, the water main repair was completed, the flow subsided in the combined sewer, and the pumps were turned off. The DPSO crew conducted another inspection of the CSO outfall and found no dry weather discharge. The bypass pumps were then removed.

DC Water estimates that approximately 456,000 gallons of potable water and sanitary sewage discharged into the Potomac River at CSO 027. On February 2, 2022, we conducted a closed-circuit television (CCTV) inspection after the completion of the water main repair work. The sewer was found to be in good operating condition with no defects. No further actions were recommended. DC Water will continue to monitor CSO outfalls and assess any ancillary impacts to the CSS in the event of a water main break.

4. SOLIDS AND FLOATABLES CONTROL

4.1 Catch Basin Cleaning

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

**Table 4-1  
Catch Basin Cleaning**

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
				Total	In CSS	Total	In CSS	Total	In CSS		
1	1449	1426	652	103	0	1395	1384	0	0	0	0
2	2792	2642	476	1	0	2529	2441	1	1	1	1
3	3687	187	0	0	0	2695	180	0	0	0	0
4	3495	1723	0	0	0	3304	1653	75	2	75	2
5	4007	1769	1692	0	0	2717	1773	691	0	691	0
6	3316	2666	2647	6	1	2999	2704	7	7	7	7
7	3785	43	41	0	0	4928	41	186	0	186	0
8	2832	212	209	0	0	3246	227	136	0	136	0
<b>Grand Total</b>	<b>25363<sup>1</sup></b>	<b>10668<sup>1</sup></b>	<b>5717<sup>1</sup></b>	<b>110</b>	<b>1</b>	<b>23813</b>	<b>10403</b>	<b>1096</b>	<b>10</b>	<b>1096</b>	<b>10</b>
% Cleaned/Inspected to Date				<b>2%</b>	<b>0%</b>					<b>4%</b>	<b>0%</b>

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.

#### 4.2 BMP Demonstration for Solid and Floatable Control

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

- Bar Rack at CSO 040 and 041 to Rock Creek

**Table 4-2**  
**BMP Demonstration Projects – Report**

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (LB)</i>
Bar Rack CSO 040	01/18/22	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	01/20/22	Good	None	Routine Cleaning	(1)

Notes:

(1) System was designed so that captured solids and floatables are conveyed to Blue Plains for treatment.

**4.3 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 Operations. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	20
<i>Days not Operating</i>	16
<i>Reason not Operating</i>	Maintenance, wind, low water levels.
<i># Skimmer in Fleet</i>	3 Skimmers
<i># Skimmers Out of Service</i>	None.
<i>Dates</i>	N/A
<i>Reason</i>	N/A
<i>Plan to Restore to Service</i>	N/A
<i>Amount Material Collected</i>	10 tons this month. Calendar year to date 10 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

**4.4 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.

No Activity this month.

## 5. MONITORING

### 5.1 Condition Report Bar Racks at Main and O Street Storm Pumps

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

**Table 5-1  
Bar Racks at Main & O Street Pumping Stations**

Pumping Station	Date Inspected	Condition		Work Order Number	Work Needed	Work Performed or Schedule for Completion
		Good	Needs Work			
Bar Racks at O Street Storm Pumps (CSO 010)	1/25/22	X		22-204684		
Bar Racks at Main Storm Pumps (CSO 011)	1/25/22	X		22-204677		

## **5.2 Rain Data**

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

<b>Date</b>	<b>Brentwood Pumping Station</b>	<b>Bryant Street Pumping Station</b>	<b>Main Pumping Station</b>	<b>Rock Creek Pumping Station</b>	<b>National Airport</b>
1/1/2022	1.80	0.38	0.40	0.37	0.44
1/2/2022	0.55	0.11	0.13	0.10	0.13
1/3/2022	0.35	0.66	0.92	0.63	0.99
1/4/2022	0.03	0.08	0.22	0.18	0
1/5/2022	0	0	0	0.01	0
1/6/2022	0	0	0	0	0
1/7/2022	0.09	0.11	0.17	0.11	0.19
1/8/2022	0	0	0	0	0
1/9/2022	0.42	0.46	0.56	0.50	0.58
1/10/2022	0	0	0	0	0
1/11/2022	0	0	0	0	0
1/12/2022	0	0	0	0	0
1/13/2022	0	0	0	0	0
1/14/2022	0	0	0	0	0
1/15/2022	0	0	0	0	0
1/16/2022	0.60	0.70	0.88	0.86	0.90
1/17/2022	0.02	0.03	0.04	0.03	0.02
1/18/2022	0	0	0	0	0
1/19/2022	0.01	0.01	0.02	0.01	0.03
1/20/2022	0.23	0.21	0.26	0.24	0.28
1/21/2022	0	0	0	0	0
1/22/2022	0	0	0	0	0
1/23/2022	0	0	0	0	0
1/24/2022	0	0	0	0	0
1/25/2022	0	0	0	0	0
1/26/2022	0	0	0	0	0
1/27/2022	0	0	0	0	0
1/28/2022	0.03	0.06	0.08	0.06	0.12
1/29/2022	0	0	0.01	0	0
1/30/2022	0	0	0	0	0
1/31/2022	0	0	0	0	0
<b>TOTAL</b>	<b>4.13</b>	<b>2.81</b>	<b>3.69</b>	<b>3.10</b>	<b>3.68</b>



### **5.3 Wet Weather Overflows**

The wet weather overflow data for this month is reported in the Combined Sewer System Modeled and Metered Quarterly Results table located in Section 5.3 of the March 2022 Report.



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

**Monthly Operations Report For  
*Combined Sewer System***

**Month: February 2022**

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

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

*Monthly Operations Report for Combined Sewer System*  
*Month: February 2022*  
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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 two-thirds 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 advanced wastewater treatment plant at Blue Plains (BPAWWTP or the Blue Plains AWWTP). 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 MAINTENANCE

### 2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPAWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to the tunnel system for temporary storage, and 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 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	02/11/22	*			
7	W Street and Railroad Ave, SE	005	02/11/22	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE (Diversion Structure)	007	02/11/22	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	02/11/22	*			
9b	11 <sup>th</sup> Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	02/18/22	*			
11	"O" Street Pumping Station	011(a)	02/22/22	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/03/22	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	02/24/22	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	02/24/22	*			
15	South Capitol and E Streets	010	02/10/22	*			
15a	Half and L Streets, SE	010	02/10/22	*			
15b	South Capitol and I Streets	010	02/02/22	*			
15c	South Capitol and I Streets	010	02/02/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	02/24/22	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	02/07/22	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	02/22/22	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	02/07/22	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	02/07/22	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	02/07/22	*			
19	9 <sup>th</sup> and M Streets, SE	015	02/14/22	*			
19a	9 <sup>th</sup> and M Streets, SE	015	02/14/22	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	02/14/22	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	02/14/22	*			
20	12 <sup>th</sup> and M Streets, SE	016	02/14/22	*			
20a	12 <sup>th</sup> and M Streets, SE	016	02/14/22	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	02/14/22	*			
21	14 <sup>th</sup> and M Streets, SE	017	02/14/22	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	02/14/22	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	02/08/22	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	02/08/22	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/08/22	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/08/22	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	02/08/22	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	02/09/22	*			
24a	East Capitol St, west of RFK stadium	019	02/09/22	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	02/11/22	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	02/11/22	*			
30	17 <sup>th</sup> and D Streets, NW	020	02/11/22	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	02/11/22	*			
33	10 <sup>th</sup> and F Streets, NW	020	02/11/22	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	02/10/22	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	02/11/22	*			
35	Northeast of Roosevelt Bridge, NW	021	02/10/22	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	02/10/22	*			
36	27 <sup>th</sup> and I Streets, NW	022	02/11/22	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/11/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
36b	19 <sup>th</sup> and L Streets, NW	022, 034	02/01/22	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	02/01/22	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	02/01/22	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	02/01/22	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	02/11/22	*			
38	29 <sup>th</sup> and K Streets, NW	024	02/01/22	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	02/01/22	*			
39a	30 <sup>th</sup> and K Streets, NW	024	02/01/22	*			
39b	30 <sup>th</sup> and K Streets, NW	024	02/01/22	*			
41b	31 <sup>st</sup> and K Streets, NW	025	02/01/22	*			
41c	31 <sup>st</sup> and K Streets, NW	025	02/01/22	*			
42	Wisconsin Ave and K Street, NW	026	02/01/22	*			
43	Potomac and Water Streets, NW	027	02/01/22	*			
43a	Potomac and Water Streets, NW	027	02/01/22	*			
44	Water Street, west of Potomac St, NW	027	02/01/22	*			
45	36 <sup>th</sup> and M Streets, NW	028	02/02/22	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/02/22	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	02/02/22	*			
47a	37 <sup>th</sup> and T Streets, NW	029	02/02/22	*			
47b	37 <sup>th</sup> and T Streets, NW	029	02/02/22	*			
47c	38 <sup>th</sup> and W Streets, NW	029	02/02/22	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	02/18/22	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	02/18/22	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	02/10/22	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	02/10/22	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	02/10/22	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	02/10/22	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	02/07/22	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	02/07/22	*			
54	23 <sup>rd</sup> and O Streets, NW	034	02/07/22	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	02/07/22	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	02/07/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	02/07/22	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	02/07/22	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/02/22	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/02/22	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/02/22	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/09/22	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/09/22	*			
64	Adams Mill Road, south of Irving Street, NW	043	02/09/22	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/09/22	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/09/22	*			
66	Adams Mill Road and Lamont Street, NW	045	02/09/22	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	02/09/22	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/09/22	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/09/22	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	02/09/22	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	02/02/22	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	02/14/22	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/07/22	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/07/22	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/07/22	*			
74 <sup>l</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/08/22	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	02/08/22	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	02/08/22	*			
78 <sup>l</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>l</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	02/07/22	*			
84a	26 <sup>th</sup> and P Streets, NW	060	02/07/22	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	02/09/22	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	02/09/22	*			
89	First and V St, NW (First St Tunnel)	019	02/09/22	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
90	First and V St, NW (First St Tunnel)	019	02/09/22	*			
91	First and V St, NW (First St Tunnel)	019	02/09/22	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	02/23/22	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	02/23/22	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	02/14/22	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	02/23/22	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	02/23/22	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	02/24/22	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	02/24/22	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	02/24/22	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	02/23/22	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	02/23/22	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	02/23/22	*			
104	Poplar Point PS Discharge Chamber	N/A	02/23/22	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	02/23/22	*			

Notes:

1. Noted structures no longer function as a combined sewer overflow regulator structure.



## 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 <sup>1</sup>	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	02/23/22	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/18/22	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	02/18/22	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/03/22	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/03/22	*			*			*		
011	Main Sewage Pumping Station, SE	02/03/22	*			*			*		
011a	Main Sewage Pumping Station, SE	02/03/22	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/03/22	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	02/03/22	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	02/03/22	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/03/22	*			*			*		
016	12th and O Streets, SE	02/03/22	*		*		*		*		
017	M and Water Street, SE	02/03/22	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	02/03/22	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	02/23/22	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	02/23/22	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	02/25/22	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/25/22	*			*			*		
022	Rock Creek Parkway and G St., NW	02/25/22	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	02/25/22	*		*		*		*		
025	South of 31st and K Streets, NW	02/25/22	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	02/25/22	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	02/25/22	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/17/22	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	02/15/22	*			*			*		See Section 3, Dry Weather Overflow report.

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 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	02/18/22	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/18/22	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/07/22	*			*			*		
035	P St. Bridge and Rock Creek Parkway	02/07/22	*			*			*		
036	22nd Street, South of Q Street NW.	02/25/22	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/02/22	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/02/22	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/02/22	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/03/22	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/03/22	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/03/22	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/03/22	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	02/03/22	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/09/22	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	02/09/22	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	02/09/22	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	02/09/22	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/14/22	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	02/25/22	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	02/25/22	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	02/08/22	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	02/08/22	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	02/25/22	*		*		*		*		

Notes:

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

### 2.3.1 Pumping Stations

Pumping station operations are summarized in the table below.

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

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Work Order Number</i>	<i>Schedule to Restore to Service</i>
Main	31	3	4	None	-	-	-	-
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	None	-	-	-	-
Potomac	31	4	5	Pump #5	02/01/22 – 02/09/22	Pump was placed out of service to replace the impellor and pump	22-159820	Returned to service on 02/09/22

**Table 2-4  
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed</i> <sup>1,2</sup>	<i>Work Order Number</i>	<i>Comments</i>
Main	2/22/22	Group A	22-214468	Add oil, grease bearings and replace packing if needed.
O St	2/22/22	Group A	22-256555	Add oil, grease bearings and replace packing if needed.
Eastside	2/08/22	Group A	22-151621	Add oil, grease bearings and replace packing if needed.
Poplar Point	2/22/22	Group A	22-216895	Add oil, grease bearings and replace packing if needed.
Potomac	2/19/22	Group A	22-154824	Add oil, grease bearings and replace packing if needed.
Rock Creek	2/17/22	Group A	22-154838	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	2/28/22	Group A	22-216940	Add oil, grease bearings and replace packing if needed.
Earl Place	2/15/22	Group A	22-205145	Add oil, grease bearings and replace packing if needed.
1 <sup>st</sup> Street Tunnel Dewatering	2/25/22	Group B	22-244445	

Notes:

1. Group A consists of:
  - a. Exercise bar screens
  - b. Exercise all sump pumps
  - c. Drain condensation from air compressor storage tank
  - d. Check depth of screening in the screen room and schedule Vactor truck as required
  - e. Check all safety equipment
  - f. Issue work order requests as required
2. Group B consists of:
  - a. Inspect and manually run CSO Pumps
  - b. Generator:
    - i. Inspection operation and test, inspect oil level, inspect coolant level
  - c. MCC:
    - i. Test gas monitoring system
    - ii. Inspect and test level indicators
  - d. Valve Vault
    - i. Lubricate knife gate valve stem and stem nut
    - ii. Flush air and vacuum release valve

**Table 2-5  
Pumping Stations – Pumpage**

Pumping Station	Sanitary Pumpage		Screenings Collected (tons) <sup>1</sup>	Pumpage of CSO from First Street Tunnel back to Sewer System	
	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)
Main <sup>1,2</sup>	1394.86	49.82	N/A	N/A	N/A
O St <sup>1,2</sup>	103.02	3.68	N/A	N/A	N/A
Eastside	117.98	4.21	N/A	N/A	N/A
Poplar Point	304.36	10.87	N/A	N/A	N/A
Potomac	3397.33	121.33	N/A	N/A	N/A
Rock Creek	141.21	5.04	N/A	N/A	N/A
Upper Anacostia	38.11	1.36	N/A	N/A	N/A
Earl Place	0.180	0.006	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	02/08/22 02/23/22	0.21 0.20

Notes:

1. Screenings collected from the Main and O Street Pumping Stations are combined from the sanitary flow and combined sewer overflows, due to the design of the screening system that consists of vertical trash racks, with no mechanical cleaning. Therefore, quantification of captured screening materials, specifically from combined sewer overflows, is not feasible.
2. Flow meters have been installed in accordance with NPDES Permit No. DC002199 to record CSO discharges from Main and O Street Pumping Stations. This data is reported via Discharge Monitoring Reports submitted to the EPA on a monthly basis. A summary of metered and modeled CSO discharges is included in Section 5.

**2.4 Inflatable Dams and SCADA System**

DC Water operates and maintains nine inflatable dams at seven different locations. Table 2-6 summarizes the date(s) the inflatable dams were inspected, and their operational status and condition. 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 2-6  
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	2/24/22	<b>No</b>	N/A	N/A	N/A
14 - West	2/24/22	<b>No</b>	N/A	N/A	N/A
15	2/10/22	<b>No</b>	N/A	N/A	N/A
15A	2/10/22	<b>No</b>	N/A	N/A	N/A
16 – East	2/24/22	<b>No</b>	N/A	N/A	N/A
	2/10/22	<b>Yes</b>	<b>2/10/22</b>	<b>Note 1</b>	<b>2/10/22</b>
16 – West	2/24/22	<b>No</b>	N/A	N/A	N/A
	2/10/22	<b>Yes</b>	<b>2/10/22</b>	<b>Note 1</b>	<b>2/10/22</b>
34	2/10/22	<b>No</b>	N/A	N/A	N/A
35	2/10/22	<b>No</b>	N/A	N/A	N/A
52	2/10/22	<b>No</b>	N/A	N/A	N/A

Notes:

- On 02/10/22, Structure’s 16 east and west were manually deflated due to the Preventative Maintenance being performed to the blower unit by the electrical shop. The structures were returned to service in less than 24 hours. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

**Table 2-7  
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>Inflatable Dam Operational Status</i>
14 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15A	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
16 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
34	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
35	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
52	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>N/A</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 2	None	N/A	
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>	
Outfall Sewer Control Gate No.1	Operational	Open	
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	

### 3. DRY WEATHER OVERFLOWS

There was one dry weather combined sewer overflow reported during February 2022.

On February 15, 2022, at approximately 9:00 AM, DC Water staff from Department of Pumping and Sewer Operation (DPSO) observed an unusual volume of flow from outfall CSO 029 during the regular inspection of the outfalls and regulator structures. During their investigation, they conducted a walk-through inspection of the 96-inch combined sewer from Regulator Structures 46 and 47. The regulator structures were in good operating condition. However, they found sewage discharging from the 18-inch storm sewer coming from the Georgetown Medstar building and entering the 96-inch combined sewer downstream of the last regulator structure (Structure 47) that goes to the Outfall 029. The crew attempted to find the root cause of the sanitary inflow into the 18-inch storm sewer, but the investigations were inconclusive on that day.

On February 16, 2022 as the investigation continued. They conducted a closed-circuit television (CCTV) inspection of the 18-inch storm sewer on Medstar property and the camera became obstructed in the sewer. In order to stop this unpermitted sanitary flow to Outfall 029, DC Water had their contractor set-up bypass pumping between the storm and sanitary sewer lines to cease the overflow into the Potomac River. At approximately 3:45 PM the overflow condition ceased.

On February 17, 2022, the investigation and the bypass pumping continued. Georgetown Medstar personnel made DC Water aware of an excavation created on the lower level of the building on the floor. Raw sewage and ground water were found surfacing within this excavation. Medstar personnel informed us that this was occurring because the sanitary building drain was broken a short distance away underneath the adjacent building. All these lines are private and on MedStar property.

The sewage and groundwater mixture in the excavation was being pumped by a portable pump up to a rectangular holding tank that is not sealed and is covered with plastic sheeting. There are two grinder pumps inside of the holding tank that pump the mixture up to new piping that is hung from the ceiling and carries the flow several hundred feet to a soil stack that discharges into another sanitary building drain that is not obstructed. The broken pipe is under the building making it difficult to access and as reported was the reason for the temporary pumping set up. Medstar personnel stated that there was a plan in place to permanently resolve the issue, but no details were provided.

DC Water estimates that we observed approximately 28,000 gallons of sanitary sewage discharged into the Potomac River at CSO 029 between the time the flow was discovered to when DC Water installed bypass pumping.

On at least two prior occasions Medstar has obstructed and interfered with the District's wastewater system and may have caused or contributed to an obstruction of flow in the sewer system downstream of the sanitary service line from the MedStar Health campus at Georgetown University resulting in one or more sewer overflow. As a result of Medstar's actions DC Water issued two Notices of Violation (NOV) on November 23, 2021 and December 22, 2021.

DC Water notified MedStar Health of our findings and directed them to assume responsibility for the bypass pumping. On March 2, 2022 Medstar assumed ownership of the bypass pumping operation. We will continue to monitor this situation and would appreciate any enforcement support your agency may provide.



#### 4. SOLIDS AND FLOATABLES CONTROL

##### 4.1 Catch Basin Cleaning

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

**Table 4-1  
Catch Basin Cleaning**

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1449	1426	652	463	7	0	0	6	6	6	6
2	2792	2642	476	120	2	1	1	28	25	29	26
3	3687	187	0	0	0	0	0	3	0	3	0
4	3495	1723	0	0	0	75	2	397	40	472	42
5	4007	1769	1692	8	0	691	0	388	6	1079	6
6	3316	2666	2647	1121	3	7	7	44	38	51	45
7	3785	43	41	4	0	186	0	76	0	262	0
8	2832	212	209	0	0	136	0	517	0	653	0
<b>Grand Total</b>	<b>25363<sup>1</sup></b>	<b>10668<sup>1</sup></b>	<b>5717<sup>1</sup></b>	<b>1716</b>	<b>12</b>	<b>1096</b>	<b>10</b>	<b>1459</b>	<b>115</b>	<b>2555</b>	<b>125</b>
% Cleaned/Inspected to Date				<b>30%</b>	<b>0%</b>					<b>10%</b>	<b>1%</b>

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.

#### 4.2 BMP Demonstration for Solid and Floatable Control

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

- Bar Rack at CSO 040 and 041 to Rock Creek

**Table 4-2**  
**BMP Demonstration Projects – Report**

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (LB)</i>
Bar Rack CSO 040	02/02/22	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	02/03/22	Good	None	Routine Cleaning	(1)

Notes:

(1) System was designed so that captured solids and floatables are conveyed to Blue Plains for treatment.

**4.3 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 Operations. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	19
<i>Days not Operating</i>	8
<i>Reason not Operating</i>	Maintenance, wind, low water levels.
<i># Skimmer in Fleet</i>	3 Skimmers
<i># Skimmers Out of Service</i>	1 Skimmer
<i>Dates</i>	B34: 2/18 - 2/28.
<i>Reason</i>	B34: Wing screen jammed.
<i>Plan to Restore to Service</i>	B34: Waiting for parts. ETR March 2022.
<i>Amount Material Collected</i>	2 tons this month. Calendar year to date 12 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

**4.4 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.

No Activity this month.

## 5. MONITORING

### 5.1 Condition Report Bar Racks at Main and O Street Storm Pumps

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

**Table 5-1  
Bar Racks at Main & O Street Pumping Stations**

Pumping Station	Date Inspected	Condition		Work Order Number	Work Needed	Work Performed or Schedule for Completion
		Good	Needs Work			
Bar Racks at O Street Storm Pumps (CSO 010)	2/22/22	X		22-263049		
Bar Racks at Main Storm Pumps (CSO 011)	2/23/22	X		22-263042		

## 5.2 Rain Data

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

<b>Date</b>	<b>Brentwood Pumping Station</b>	<b>Bryant Street Pumping Station</b>	<b>Main Pumping Station</b>	<b>Rock Creek Pumping Station</b>	<b>National Airport</b>
2/1/2022	0	0	0.60	0	0
2/2/2022	0	0	0	0	0
2/3/2022	0.44	0.47	0.48	0.45	0.50
2/4/2022	1.15	1.06	1.14	1.24	1.08
2/5/2022	0	0	0	0	0
2/6/2022	0	0	0	0	0
2/7/2022	0.02	0.02	0.03	0.02	0.07
2/8/2022	0	0	0	0	0
2/9/2022	0	0	0	0	0
2/10/2022	0	0	0	0	0
2/11/2022	0	0	0	0	0
2/12/2022	0	0	0	0	0
2/13/2022	0	0.02	0.01	0.02	0.03
2/14/2022	0	0	0	0	0
2/15/2022	0	0	0	0	0
2/16/2022	0	0	0	0	0
2/17/2022	0	0	0	0	0
2/18/2022	0.02	0.02	0.01	0.02	0.01
2/19/2022	0	0	0	0	0
2/20/2022	0	0	0	0	0
2/21/2022	0	0	0	0	0
2/22/2022	0.01	0.02	0.05	0.02	0.07
2/23/2022	0	0	0	0	0.01
2/24/2022	0.22	0.26	0.28	0.26	0.35
2/25/2022	0.18	0.18	0.17	0.17	0.19
2/26/2022	0	0	0	0	0
2/27/2022	0	0	0	0	0
2/28/2022	0	0	0	0	0
<b>TOTAL</b>	<b>2.04</b>	<b>2.05</b>	<b>2.77</b>	<b>2.20</b>	<b>2.31</b>

### **5.3 Wet Weather Overflows**

The wet weather overflow data for this month is reported in the Combined Sewer System Modeled and Metered Quarterly Results table located in Section 5.3 of the March 2022 Report.



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

**Monthly Operations Report For  
*Combined Sewer System***

**Month: March 2022**

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



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

*Monthly Operations Report for Combined Sewer System*  
*Month: March 2022*  
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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 two-thirds 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 advanced wastewater treatment plant at Blue Plains (BPAWWTP or the Blue Plains AWWTP). 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 MAINTENANCE

### 2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPAWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to the tunnel system for temporary storage, and 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 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
4 <sup>1</sup>	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	N/A				
5 <sup>1</sup>	Poplar Point Pumping Station	004	N/A				
6	Chicago Street and Railroad Ave, SE	005	03/08/22	*			
7	W Street and Railroad Ave, SE	005	03/08/22	*			
8 <sup>1</sup>	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 <sup>th</sup> Street and Ridge Place, SE (Diversion Structure)	007	03/08/22	*			
9a	13 <sup>th</sup> Street and Ridge Place, SE (Regulator Structure)	007	03/08/22	*			
9b	11 <sup>th</sup> Street Bridge and DC 295 SB (CSO-007 Diversion Chamber)	007	03/14/22	*			
11	"O" Street Pumping Station	011(a)	03/28/22	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/10/22	*			
13	2 <sup>nd</sup> Street, 300 ft. north of N Place, SE	009	03/28/22	*			
14	2 <sup>nd</sup> Street, 250 ft. north of N Place, SE	011(a)	03/28/22	*			
15	South Capitol and E Streets	010	03/22/22	*			
15a	Half and L Streets, SE	010	03/28/22	*			
15b	South Capitol and I Streets	010	03/14/22	*			
15c	South Capitol and I Streets	010	03/14/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
16	North of Main Sewage Pumping Station	012	03/28/22	*			
17	4 <sup>th</sup> and N Streets, SE, Both Extended	013	03/07/22	*			
17a	K Street between 6 <sup>th</sup> Street and 7 <sup>th</sup> Street, SE (Side Overflow Weir)	013	03/14/22	*			
17b	4 <sup>th</sup> and N Streets, SE, Both Extended (CSO-013 Diversion Chamber)	013	03/07/22	*			
18	6 <sup>th</sup> and M Streets, SE (Diversion and Overflow Structure)	014	03/07/22	*			
18a	Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber)	014	03/07/22	*			
19	9 <sup>th</sup> and M Streets, SE	015	03/09/22	*			
19a	9 <sup>th</sup> and M Streets, SE	015	03/09/22	*			
19b	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	03/09/22	*			
19c	9 <sup>th</sup> and M Streets, SE (Diversion Chamber)	015	03/09/22	*			
20	12 <sup>th</sup> and M Streets, SE	016	03/09/22	*			
20a	12 <sup>th</sup> and M Streets, SE	016	03/09/22	*			
20b	12 <sup>th</sup> and M Streets, SE (CSO-016 Diversion Chamber)	016	03/09/22	*			
21	14 <sup>th</sup> and M Streets, SE	017	03/09/22	*			
21a	14 <sup>th</sup> and M Streets, SE (CSO-017 Diversion Chamber)	017	03/09/22	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	03/04/22	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	03/04/22	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/04/22	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/04/22	*			
22e	14 <sup>th</sup> Street and Kentucky Ave, SE	018	03/04/22	*			
23	Independence Ave, 21 <sup>st</sup> Street, SE, Extended	019	03/24/22	*			
24a	East Capitol St, west of RFK stadium	019	03/24/22	*			
28	21 <sup>st</sup> and Constitution Ave, NW	020	03/01/22	*			
29	22 <sup>nd</sup> Street, between Constitution Ave and C St, NW	020	03/01/22	*			
30	17 <sup>th</sup> and D Streets, NW	020	03/01/22	*			
31	15 <sup>th</sup> Street and Pennsylvania Ave, NW	020	03/01/22	*			
33	10 <sup>th</sup> and F Streets, NW	020	03/01/22	*			
34	23 <sup>rd</sup> Street, north of Constitution Ave, NW	020	03/22/22	*			
34a	23 <sup>rd</sup> Street near C Street, NW	020	03/01/22	*			
35	Northeast of Roosevelt Bridge, NW	021	03/22/22	*			
35c	Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW	021	03/22/22	*			
36	27 <sup>th</sup> and I Streets, NW	022	03/01/22	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/01/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
36b	19 <sup>th</sup> and L Streets, NW	022, 034	03/07/22	*			
36d	17 <sup>th</sup> and L Streets, NW	022, 034	03/07/22	*			
36g	18 <sup>th</sup> and M Streets, NW	022, 034	03/07/22	*			
36h	18 <sup>th</sup> and M Streets, NW	022, 034	03/07/22	*			
37	27 <sup>th</sup> and Eye Streets, NW	022	03/01/22	*			
38	29 <sup>th</sup> and K Streets, NW	024	03/07/22	*			
38a	30 <sup>th</sup> Street, south of K Street, NW	024	03/07/22	*			
39a	30 <sup>th</sup> and K Streets, NW	024	03/07/22	*			
39b	30 <sup>th</sup> and K Streets, NW	024	03/07/22	*			
41b	31 <sup>st</sup> and K Streets, NW	025	03/07/22	*			
41c	31 <sup>st</sup> and K Streets, NW	025	03/07/22	*			
42	Wisconsin Ave and K Street, NW	026	03/07/22	*			
43	Potomac and Water Streets, NW	027	03/02/22	*			
43a	Potomac and Water Streets, NW	027	03/07/22	*			
44	Water Street, west of Potomac St, NW	027	03/07/22	*			
45	36 <sup>th</sup> and M Streets, NW	028	03/02/22	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/24/22	*			
47	38 <sup>th</sup> Street and Reservoir Road, NW	029	03/02/22	*			
47a	37 <sup>th</sup> and T Streets, NW	029	03/15/22	*			
47b	37 <sup>th</sup> and T Streets, NW	029	03/15/22	*			
47c	38 <sup>th</sup> and W Streets, NW	029	03/15/22	*			
49 <sup>l</sup>	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	03/21/22	*			
51	N Street Extended, west of 25 <sup>th</sup> Street, NW	033	03/21/22	*			
52	22 <sup>nd</sup> Street between M and N Streets, NW	034	03/22/22	*			
52a	N Street between 22 <sup>nd</sup> and 23 <sup>rd</sup> Streets, NW	034	03/22/22	*			
53	22 <sup>nd</sup> and M Streets, NW	022, 034	03/03/22	*			
53a	22 <sup>nd</sup> and M Streets, NW	022, 034	03/03/22	*			
53b	L Street between 21 <sup>st</sup> Street and New Hampshire Ave, NW	022, 034	03/07/22	*			
53c	L and 22 <sup>nd</sup> Streets, NW	022	03/07/22	*			
54	23 <sup>rd</sup> and O Streets, NW	034	03/21/22	*			
55	22 <sup>nd</sup> Street, south of Q Street, NW	035	03/21/22	*			
55a	22 <sup>nd</sup> Street, south of Q Street, NW	035	03/21/22	*			

Structure Number	Location	Associated NPDES Outfall	Date Inspected	Condition		Work Needed	Work performed
				Good	Needs Work		
56	23 <sup>rd</sup> and Massachusetts Ave, NW	036	03/21/22	*			
57	23 <sup>rd</sup> Street, south of Q Street, NW	036	03/21/22	*			
58 <sup>l</sup>	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/01/22	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/01/22	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/01/22	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/08/22	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/08/22	*			
64	Adams Mill Road, south of Irving Street, NW	043	03/08/22	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/08/22	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/07/22	*			
66	Adams Mill Road and Lamont Street, NW	045	03/08/22	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	03/08/22	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/08/22	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/08/22	*			
70	Piney Branch Parkway, west of 16 <sup>th</sup> Street, NW	049	03/08/22	*			
70i	5 <sup>th</sup> and Quackenbos Streets, NW	049	03/28/22	*			
71	28 <sup>th</sup> Street, west of Rock Creek Parkway, NW	050	03/15/22	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/21/22	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/21/22	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/21/22	*			
74 <sup>l</sup>	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/01/22	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	03/01/22	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	03/01/22	*			
78 <sup>l</sup>	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 <sup>l</sup>	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 <sup>th</sup> and P Streets, NW	060	03/21/22	*			
84a	26 <sup>th</sup> and P Streets, NW	060	03/21/22	*			
86	Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel)	019	03/15/22	*			
88	Flagler and Adams St. NW (First St Tunnel)	019	03/15/22	*			
89	First and V St, NW (First St Tunnel)	019	03/15/22	*			

<i>Structure Number</i>	<i>Location</i>	<i>Associated NPDES Outfall</i>	<i>Date Inspected</i>	<i>Condition</i>		<i>Work Needed</i>	<i>Work performed</i>
				Good	Needs Work		
90	First and V St, NW (First St Tunnel)	019	03/15/22	*			
91	First and V St, NW (First St Tunnel)	019	03/15/22	*			
92	CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel)	019	03/30/22	*			
93	CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel)	018	03/30/22	*			
95	M Street Approach Channel M and Water St SE (Anacostia River Tunnel)	015, 016, 017	03/09/22	*			
96	CSO 007 Shaft at 11 <sup>th</sup> St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel)	007	03/14/22	*			
97	CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel)	005	03/14/22	*			
98	Main Pumping Station Diversions (Anacostia River Tunnel)	009 - 012	03/28/22	*			
99	CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel)	009, 011a	03/28/22	*			
100	CSO 012 Diversion Facilities (Anacostia River Tunnel)	012	03/28/22	*			
101	Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	N/A	03/14/22	*			
102	Anacostia Main Interceptor Diversion Chamber	N/A	03/14/22	*			
103	Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel)	N/A	03/14/22	*			
104	Poplar Point PS Discharge Chamber	N/A	03/14/22	*			
105	Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel)	003A	03/14/22	*			

Notes:

1. Noted structures no longer function as a combined sewer overflow regulator structure.

## 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 <sup>1</sup>	Bolling Air Force Base, at Giavanolli and Chanute, SW	N/A									
003a	Joint Base Anacostia Bolling Macdill and Arnold Ave SW	03/14/22	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/24/22	*		*		*		*		
006 <sup>1</sup>	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 <sup>th</sup> St. and Anacostia Bridges, SE	03/24/22	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/10/22	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/10/22	*			*			*		
011	Main Sewage Pumping Station, SE	03/10/22	*			*			*		
011a	Main Sewage Pumping Station, SE	03/10/22	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/10/22	*		*		*		*		
013	Southeast Federal Center, aligned with 4 <sup>th</sup> St.	03/10/22	*		*		*		*		
014	Navy Yard, aligned with 6 <sup>th</sup> St., SE	03/10/22	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/10/22	*			*			*		
016	12th and O Streets, SE	03/03/22	*		*		*		*		
017	M and Water Street, SE	03/03/22	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	03/03/22	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	03/30/22	*		*		*		*		
019a	Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure)	03/30/22	*		*		*		*		
020	Rock Creek Parkway and Independence, NW	03/11/22	*		*		*		*		
021	Rock Creek Parkway and C St., NW	03/11/22	*		*		*		*		
022	Rock Creek Parkway and G St., NW	03/11/22	*		*		*		*		
024	South of 30 <sup>th</sup> and K Streets, NW <sup>1</sup>	03/10/22	*		*		*		*		
025	South of 31st and K Streets, NW	03/10/22	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	03/10/22	*		*		*		*		
027	33 <sup>rd</sup> and Water Sts., NW	03/10/22	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	03/10/22	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 <sup>th</sup> St. NW	03/10/22	*			*			*		

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 <sup>1</sup>	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW	03/21/22	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/21/22	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/21/22	*			*			*		
035	P St. Bridge and Rock Creek Parkway	03/21/22	*			*			*		
036	22nd Street, South of Q Street NW.	03/15/22	*		*		*		*		
037 <sup>1</sup>	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/01/22	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/01/22	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/01/22	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	03/30/22	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/30/22	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/30/22	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	03/30/22	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/30/22	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	03/08/22	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	03/08/22	*		*		*		*		
048	South of Piney Branch Parkway and 17 <sup>th</sup> St.	03/08/22	*		*		*		*		
049	North of Piney Branch Parkway and 17 <sup>th</sup> St.	03/08/22	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/15/22	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	03/03/22	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	03/03/22	*		*		*		*		
053 <sup>1</sup>	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	03/01/22	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	03/01/22	*		*		*		*		
057 <sup>1</sup>	28th Street and Rock Creek Parkway, NW	N/A									
058 <sup>1</sup>	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	03/15/22	*		*		*		*		

Notes:

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



### 2.3.1 Pumping Stations

Pumping station operations are summarized in the table below.

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

<i>Pumping Station</i>	<i>No. of Inspections</i>	<i>No. Screens</i>	<i>No. Pumps</i>	<i>Screens or Pumps Out of Service</i>	<i>Dates</i>	<i>Reason</i>	<i>Work Order Number</i>	<i>Schedule to Restore to Service</i>
Main	31	3	4	None	-	-	-	-
Eastside	1	2	4	None	-	-	-	-
Poplar Point	1	2	4	None	-	-	-	-
Potomac	31	4	5	None	-	-	-	-

**Table 2-4  
Pumping Stations – Preventive Maintenance**

<i>Pumping Station</i>	<i>Date Performed</i>	<i>Type of Preventive Maintenance Performed</i> <sup>1,2</sup>	<i>Work Order Number</i>	<i>Comments</i>
Main	3/22/22	Group A	22-276748	Add oil, grease bearings and replace packing if needed.
O St	3/22/22	Group A	22-307838	Add oil, grease bearings and replace packing if needed.
Eastside	3/24/22	Group A	22-229459	Add oil, grease bearings and replace packing if needed.
Poplar Point	3/24/22	Group A	22-280489	Add oil, grease bearings and replace packing if needed.
Potomac	3/24/22	Group A	22-235327	Add oil, grease bearings and replace packing if needed.
Rock Creek	3/24/22	Group A	22-235957	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	3/25/22	Group A	22-280638	Add oil, grease bearings and replace packing if needed.
Earl Place	3/25/22	Group A	22-255004	Add oil, grease bearings and replace packing if needed.
1 <sup>st</sup> Street Tunnel Dewatering	3/25/22	Group B	22-306177	

Notes:

1. Group A consists of:
  - a. Exercise bar screens
  - b. Exercise all sump pumps
  - c. Drain condensation from air compressor storage tank
  - d. Check depth of screening in the screen room and schedule Vactor truck as required
  - e. Check all safety equipment
  - f. Issue work order requests as required
2. Group B consists of:
  - a. Inspect and manually run CSO Pumps
  - b. Generator:
    - i. Inspection operation and test, inspect oil level, inspect coolant level
  - c. MCC:
    - i. Test gas monitoring system
    - ii. Inspect and test level indicators
  - d. Valve Vault
    - i. Lubricate knife gate valve stem and stem nut
    - ii. Flush air and vacuum release valve

**Table 2-5  
Pumping Stations – Pumpage**

Pumping Station	Sanitary Pumpage		Screenings Collected (tons) <sup>1</sup>	Pumpage of CSO from First Street Tunnel back to Sewer System	
	Total Wastewater (mg)	Daily Average Wastewater (mg)		Date	Volume (mg)
Main <sup>1,2</sup>	1530.24	49.36	N/A	N/A	N/A
O St <sup>1,2</sup>	105.44	3.40	N/A	N/A	N/A
Eastside	133.79	4.32	N/A	N/A	N/A
Poplar Point	335.57	10.82	N/A	N/A	N/A
Potomac	2288.47	73.82	N/A	N/A	N/A
Rock Creek	120.36	3.88	N/A	N/A	N/A
Upper Anacostia	40.55	1.31	N/A	N/A	N/A
Earl Place	0.195	0.006	N/A	N/A	N/A
1 <sup>st</sup> Street Tunnel Dewatering	N/A	N/A	N/A	N/A	N/A

Notes:

1. Screenings collected from the Main and O Street Pumping Stations are combined from the sanitary flow and combined sewer overflows, due to the design of the screening system that consists of vertical trash racks, with no mechanical cleaning. Therefore, quantification of captured screening materials, specifically from combined sewer overflows, is not feasible.
2. Flow meters have been installed in accordance with NPDES Permit No. DC002199 to record CSO discharges from Main and O Street Pumping Stations. This data is reported via Discharge Monitoring Reports submitted to the EPA on a monthly basis. A summary of metered and modeled CSO discharges is included in Section 5.

**2.4 Inflatable Dams and SCADA System**

DC Water operates and maintains nine inflatable dams at seven different locations. Table 2-6 summarizes the date(s) the inflatable dams were inspected, and their operational status and condition. 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 2-6  
Inflatable Dams – Inspections and Equipment in Service**

<i>Inflatable Dam Structure No</i>	<i>Date Inspected</i>	<i>Was Dam Out of Service During the Month?</i>	<i>Dates out of Service</i>	<i>Reason</i>	<i>Schedule to Restore to Service</i>
14 - East	3/28/22	<b>No</b>	N/A	N/A	N/A
14 - West	3/28/22	<b>No</b>	N/A	N/A	N/A
15	3/22/22	<b>No</b>	N/A	N/A	N/A
15A	3/28/22	<b>No</b>	N/A	N/A	N/A
16 – East	3/28/22	<b>No</b>	N/A	N/A	N/A
16 – West	3/28/22	<b>No</b>	N/A	N/A	N/A
34	3/22/22	<b>No</b>	N/A	N/A	N/A
35	3/22/22 3/25/22	<b>No</b> <b>Yes</b>	N/A 3/25/22	N/A <b>Note 1</b>	N/A 3/25/22
52	3/22/22	<b>No</b>	N/A	N/A	N/A

Notes:

- On 03/25/22, Structure 35 deflated due to a power outage in the surrounding area. The structure has a 120 VAC Power Supply which caused the dam to deflate, Instrumentation verified functionality of the structure. The structures were returned to service in less than twenty-four hours. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

**Table 2-7  
Inflatable Dams & SCADA Sites - Wet Weather Operations**

<i>Inflatable Dam Structure No.</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>Inflatable Dam Operational Status</i>
14 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
15A	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
16 (E & W)	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
34	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
35	<i>03/09/22</i> <i>03/24/22</i>	<i>0 hr, 1 min</i> <i>0 hr, 29 min</i>	<i>Deflated</i> <i>Deflated</i>
52	<i>None</i>	<i>N/A</i>	<i>Inflated</i>
<i>Structures on Outfall Sewers</i>	<i>Overflow Dates</i>	<i>Estimated Duration of Overflow</i>	<i>N/A</i>
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 1A	None	This structure has been bulk headed. Overflows are no longer possible.	
Outfall Structure 2	None	N/A	
<i>Outfall Sewer Control Gates</i>	<i>Operational Status</i>	<i>Position</i>	
Outfall Sewer Control Gate No.1	Operational	Open	
Outfall Sewer Control Gate No.2	Operational	This structure has been bulk headed. Overflows are no longer possible	
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 reported during March 2022.

#### 4. SOLIDS AND FLOATABLES CONTROL

##### 4.1 Catch Basin Cleaning

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

**Table 4-1  
Catch Basin Cleaning**

Ward	Total CBs	CBs in CSS	Inspections			Cleaning					
			CBs in Anacostia CSS	Total Anacostia CBs Inspected Once this Year	Total Anacostia CBs Inspected Twice this Year	CBs Cleaned Thru Last Month		CB's Cleaned This Month		Total CBs Cleaned This Year to Date	
						Total	In CSS	Total	In CSS	Total	In CSS
1	1449	1426	652	570	18	6	6	24	24	30	30
2	2792	2642	476	368	43	29	26	35	33	64	59
3	3687	187	0	0	0	3	0	484	0	487	0
4	3495	1723	0	0	0	472	42	961	14	1433	56
5	4007	1769	1692	49	6	1079	6	76	35	1155	41
6	3316	2666	2647	1533	36	51	45	78	71	129	116
7	3785	43	41	6	0	262	0	298	0	560	0
8	2832	212	209	127	3	653	0	46	6	699	6
<b>Grand Total</b>	<b>25363<sup>1</sup></b>	<b>10668<sup>1</sup></b>	<b>5717<sup>1</sup></b>	<b>2653</b>	<b>106</b>	<b>2555</b>	<b>125</b>	<b>2002</b>	<b>183</b>	<b>4557</b>	<b>308</b>
% Cleaned/Inspected to Date				<b>46%</b>	<b>2%</b>					<b>18%</b>	<b>3%</b>

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.

**4.2 BMP Demonstration for Solid and Floatable Control**

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

- Bar Rack at CSO 040 and 041 to Rock Creek

**Table 4-2  
BMP Demonstration Projects – Report**

<i>Facility</i>	<i>Date Inspected</i>	<i>Condition</i>	<i>Work Needed</i>	<i>Work performed</i>	<i>Material Removed (LB)</i>
Bar Rack CSO 040	03/01/22	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	03/30/22	Good	None	Routine Cleaning	(1)

Notes:

(1) System was designed so that captured solids and floatables are conveyed to Blue Plains for treatment.



**4.3 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 Operations. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

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

<i>Program Operation</i>	5-day work week, excluding holidays, weather permitting
<i>Work Days this month:</i>	23
<i>Days not Operating</i>	8
<i>Reason not Operating</i>	Maintenance, wind, low water levels.
<i># Skimmer in Fleet</i>	3 Skimmers
<i># Skimmers Out of Service</i>	1 Skimmer
<i>Dates</i>	B33: 3/21 – 3/23.
<i>Reason</i>	B33: Wing screen bearing failure.
<i>Plan to Restore to Service</i>	B33: Returned to operations on 3/24. B34: Returned to operations on 3/1.
<i>Amount Material Collected</i>	13 tons this month. Calendar year to date 25 tons.
<i>Nature of Material</i>	Bottles, cans, natural debris and plastics.

**4.4 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.

No Activity this month.

**5. MONITORING**

**5.1 Condition Report Bar Racks at Main and O Street Storm Pumps**

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

**Table 5-1  
Bar Racks at Main & O Street Pumping Stations**

Pumping Station	Date Inspected	Condition		Work Order Number	Work Needed	Work Performed or Schedule for Completion
		Good	Needs Work			
Bar Racks at O Street Storm Pumps (CSO 010)	3/22/22	X		22-311899		
Bar Racks at Main Storm Pumps (CSO 011)	3/23/22	X		22-311892		

## **5.2 Rain Data**

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

<b>Date</b>	<b>Brentwood Pumping Station</b>	<b>Bryant Street Pumping Station</b>	<b>Main Pumping Station</b>	<b>Rock Creek Pumping Station</b>	<b>National Airport</b>
3/1/2022	0	0	0	0	0
3/2/2022	0	0	0	0	0
3/3/2022	0	0	0	0	0
3/4/2022	0	0	0	0	0
3/5/2022	0	0	0	0	0
3/6/2022	0	0	0	0	0
3/7/2022	0.04	0.02	0.03	0.04	0.03
3/8/2022	0	0	0	0	0
3/9/2022	0.61	0.68	0.76	0.65	0.77
3/10/2022	0	0	0	0	0
3/11/2022	0	0	0	0	0
3/12/2022	0.66	0.53	0.70	0.61	0.58
3/13/2022	0	0	0	0	0
3/14/2022	0	0	0	0	0
3/15/2022	0	0	0	0	0
3/16/2022	0	0	0	0	0
3/17/2022	0.66	0.52	0.71	0.47	0.86
3/18/2022	0	0	0	0	0
3/19/2022	0	0	0	0	0
3/20/2022	0	0	0	0	0
3/21/2022	0	0	0	0	0
3/22/2022	0	0	0	0	0
3/23/2022	0.42	0.56	0.41	0.72	0.49
3/24/2022	0.15	0.14	0.10	0.21	0.02
3/25/2022	0	0.01	0	0	0
3/26/2022	0	0	0.01	0	0
3/27/2022	0	0	0	0	0
3/28/2022	0	0	0	0	0
3/29/2022	0	0	0	0	0
3/30/2022	0	0	0	0	0.02
3/31/2022	0	0	0	0	0
<b>TOTAL</b>	<b>2.54</b>	<b>2.46</b>	<b>2.72</b>	<b>2.70</b>	<b>2.77</b>

### **5.3 Wet Weather Overflows**

The wet weather overflow data for this quarter is reported below in the Combined Sewer System Modeled and Metered Quarterly Results table.

District of Columbia Water and Sewer Authority

**Combined Sewer System Modeled and Metered Quarterly Results**  
 Period: January through March 2022  
 SCENARIO: QuarterlyReport\_2022Q1\_ALL, created on 5 April 2022

NPDES No.	Description	Data Source	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)	
<b>Anacostia CSOs</b>									
005	Chicago St and Railroad Station SE	Modeled	0	0.00	0.00	0.00	0.00	0.00	
006	Good Hope Road, West of Nichols Ave., SE	separated							
007	13 <sup>th</sup> Street and Ridge Place, SE	Metered	0	0.00	0.00	0.00	0.00	0.00	
009	2nd Street, 300 feet North of N Place, SE	Metered	0	0.00	0.00	0.00	0.00	0.00	
010	O Street Sewage Pumping Station, SE (pumped Overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00	
011	South of Main Sewage Pumping Station, SE (pumped overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00	
011a	South of Main Sewage Pumping Station, SE (gravity overflow)	Metered	0	0.00	0.00	0.00	0.00	0.00	
012	North of Main Sewage Pumping Station, SE (Tiber Creek)	Metered	0	0.00	0.00	0.00	0.00	0.00	
013	4th and N Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00	
014	6th and M Streets, SE	Modeled	0	0.00	0.00	0.00	0.00	0.00	
015	9th and M Streets, SE	consolidated to tunnel system							
016	12th and M Streets, SE	consolidated to tunnel system							
017	14th and M Streets, SE	consolidated to tunnel system							
018	Barney Circle and Pennsylvania Ave, SE	consolidated to tunnel system							
019	Northeast Boundary	Metered	0	0.00	0.00	0.00	0.00	0.00	
019A	Northeast Boundary - Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00	
	<b>SUBTOTAL</b>			<b>0.000</b>					
<b>Potomac CSOs</b>									
003A	JBAB Tunnel OF	Metered	0	0.00	0.00	0.00	0.00	0.00	
020	23rd Street, North of Constitution Ave, NW (Easby Point)	Modeled	5	3.17	12.50	2.50	7.00	1.00	
021	Northeast of Roosevelt Bridge, NW	Modeled	8	45.21	17.50	2.19	7.25	0.50	
022	27th and K Streets, NW	Modeled	9	0.43	35.50	3.94	11.00	0.50	
024	30th and K Streets, NW	Modeled	13	1.43	138.25	10.63	36.75	1.75	
025	31st & K St NW	Modeled	4	0.01	15.25	3.81	7.75	0.50	
026	Wisconsin Avenue and K St., NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
027	Water Street West of Street, NW	Modeled	9	2.17	28.00	3.11	7.75	0.75	
028	36th and M Streets, NW	Modeled	13	2.81	131.00	10.08	35.75	1.25	
029	Canal Road 1000 feet east of Rock Creek NW	Modeled	11	2.40	35.75	3.25	9.00	0.25	
	<b>SUBTOTAL</b>			<b>57.63</b>					
<b>Rock Creek</b>									
031	Pennsylvania Avenue, East Rock Creek, NW	separated							
032	26th and M Streets, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
033	N Street extended west of 25th Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
034	23rd and O Streets, SW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
035	22nd Street south of Q Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
036	22nd Street South of Q Street, NW	Modeled	8	0.10	16.50	2.06	7.00	0.25	
037	Northwest of Belmont and Rock Creek and Potomac Parkway	separated							
038	North of Belmont Road, east of Kalorama Circle, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
039	Connecticut Avenue east of Rock Creek, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
040	Billmore Street extended east of Rock Creek, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
041	Ontario extended and Rock Creek Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00	
042	Harvard Street and Rock Creek Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
043	Adams Mill Road South of Irving Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
044	Kenyon Street and Adams Mill Road, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
045	Adams Mill Road and Lamont Street, NW	Modeled	1	0.02	0.25	0.25	0.25	0.25	
046	Park Road south of Piney Branch Parkway, NW	Modeled	1	0.003	0.25	0.25	0.25	0.25	
047	Ingleside Terrace extended and Piney Branch Parkway	Modeled	0	0.00	0.00	0.00	0.00	0.00	
048	Mt. Pleasant Street extended and Piney Branch Parkway	Modeled	1	0.04	0.25	0.25	0.25	0.25	
049	Piney Branch and Lamont Street, NW	Modeled	1	0.82	0.50	0.50	0.50	0.50	
050	28th Street west of 16th Street, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
051	Olive Street extended and Rock Creek Parkway, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
052	O Street extended and Rock Creek Parkway, NW	Modeled	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 Creek 300 ft. south of Mass. Ave, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
056	Normanstone Drive extended west of Rock Creek, NW	Modeled	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 26 <sup>th</sup> St, NW	Modeled	0	0.00	0.00	0.00	0.00	0.00	
	<b>SUBTOTAL</b>			<b>0.98</b>					
	<b>TOTAL</b>			<b>58.61</b>					

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