

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH QUARTER, 2020

Prepared By:

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



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

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

Month: October 2020

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Monthly Operations Report for Combined Sewer System
Month: October 2020
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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 ¹ | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | N/A | | | | |
| 4 ¹ | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | N/A | | | | |
| 5 ¹ | Poplar Point Pumping Station | 004 | N/A | | | | |
| 6 | Chicago Street and Railroad Ave, SE | 005 | 10/28/20 | * | | | |
| 7 | W Street and Railroad Ave, SE | 005 | 10/28/20 | * | | | |
| 8 ¹ | Good Hope Rd, west of Nichols Ave, SE | 006 | N/A | | | | |
| 9 | 13 th Street and Ridge Place, SE (Diversion Structure) | 007 | 10/28/20 | * | | | |
| 9a | 13 th Street and Ridge Place, SE (Regulator Structure) | 007 | 10/28/20 | * | | | |
| 9b | 11 th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber) | 007 | 10/20/20 | * | | | |
| 11 | "O" Street Pumping Station | 011(a) | 10/28/20 | * | | | |
| 12 | Storm Pump Discharge at Main Pumping Station | 011 | 10/27/20 | * | | | |
| 13 | 2 nd Street, 300 ft. north of N Place, SE | 009 | 10/08/20 | * | | | |
| 14 | 2 nd Street, 250 ft. north of N Place, SE | 011(a) | 10/28/20 | * | | | |
| 15 | South Capitol and E Streets | 010 | 10/08/20 | * | | | |
| 15a | Half and L Streets, SE | 010 | 10/22/20 | * | | | |
| 15b | South Capitol and I Streets | 010 | 10/28/20 | * | | | |
| 15c | South Capitol and I Streets | 010 | 10/28/20 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|---|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 16 | North of Main Sewage Pumping Station | 012 | 10/08/20 | * | | | |
| 17 | 4 th and N Streets, SE, Both Extended | 013 | 10/26/20 | * | | | |
| 17a | K Street between 6 th Street and 7 th Street, SE (Side Overflow Weir) | 013 | 10/28/20 | * | | | |
| 17b | 4 th and N Streets, SE, Both Extended (CSO-013 Diversion Chamber) | 013 | 10/28/20 | * | | | |
| 18 | 6 th and M Streets, SE (Diversion and Overflow Structure) | 014 | 10/26/20 | * | | | |
| 18a | Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber) | 014 | 10/26/20 | * | | | |
| 19 | 9 th and M Streets, SE | 015 | 10/20/20 | * | | | |
| 19a | 9 th and M Streets, SE | 015 | 10/20/20 | * | | | |
| 19b | 9 th and M Streets, SE (Diversion Chamber) | 015 | 10/20/20 | * | | | |
| 19c | 9 th and M Streets, SE (Diversion Chamber) | 015 | 10/20/20 | * | | | |
| 20 | 12 th and M Streets, SE | 016 | 10/20/20 | * | | | |
| 20a | 12 th and M Streets, SE | 016 | 10/20/20 | * | | | |
| 20b | 12 th and M Streets, SE (CSO-016 Diversion Chamber) | 016 | 10/20/20 | * | | | |
| 21 | 14 th and M Streets, SE | 017 | 10/20/20 | * | | | |
| 21a | 14 th and M Streets, SE (CSO-017 Diversion Chamber) | 017 | 10/20/20 | * | | | |
| 22a | Barney Circle and Pennsylvania Ave, SE | 018 | 10/28/20 | * | | | |
| 22b | Barney Circle and Pennsylvania Ave, SE | 018 | 10/28/20 | * | | | |
| 22c | Barney Circle and Pennsylvania Ave, SE | 018 | 10/28/20 | * | | | |
| 22d | Kentucky Ave and Potomac Street, SE | 018 | 10/28/20 | * | | | |
| 22e | 14 th Street and Kentucky Ave, SE | 018 | 10/28/20 | * | | | |
| 23 | Independence Ave, 21 st Street, SE, Extended | 019 | 10/02/20 | * | | | |
| 24a | East Capitol St, west of RFK stadium | 019 | 10/02/20 | * | | | |
| 28 | 21 st and Constitution Ave, NW | 020 | 10/08/20 | * | | | |
| 29 | 22 nd Street, between Constitution Ave and C St, NW | 020 | 10/05/20 | * | | | |
| 30 | 17 th and D Streets, NW | 020 | 10/05/20 | * | | | |
| 31 | 15 th Street and Pennsylvania Ave, NW | 020 | 10/05/20 | * | | | |
| 33 | 10 th and F Streets, NW | 020 | 10/05/20 | * | | | |
| 34 | 23 rd Street, north of Constitution Ave, NW | 020 | 10/22/20 | * | | | |
| 34a | 23 rd Street near C Street, NW | 020 | 10/05/20 | * | | | |
| 35 | Northeast of Roosevelt Bridge, NW | 021 | 10/22/20 | * | | | |
| 35c | Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW | 021 | 10/22/20 | * | | | |
| 36 | 27 th and I Streets, NW | 022 | 10/05/20 | * | | | |

| 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 | 10/05/20 | * | | | |
| 36b | 19 th and L Streets, NW | 022, 034 | 10/09/20 | * | | | |
| 36d | 17 th and L Streets, NW | 022, 034 | 10/09/20 | * | | | |
| 36g | 18 th and M Streets, NW | 022, 034 | 10/09/20 | * | | | |
| 36h | 18 th and M Streets, NW | 022, 034 | 10/09/20 | * | | | |
| 37 | 27 th and Eye Streets, NW | 022 | 10/05/20 | * | | | |
| 38 | 29 th and K Streets, NW | 024 | 10/02/20 | * | | | |
| 38a | 30 th Street, south of K Street, NW | 024 | 10/02/20 | * | | | |
| 39a | 30 th and K Streets, NW | 024 | 10/02/20 | * | | | |
| 39b | 30 th and K Streets, NW | 024 | 10/02/20 | * | | | |
| 41b | 31 st and K Streets, NW | 025 | 10/02/20 | * | | | |
| 41c | 31 st and K Streets, NW | 025 | 10/02/20 | * | | | |
| 42 | Wisconsin Ave and K Street, NW | 026 | 10/02/20 | * | | | |
| 43 | Potomac and Water Streets, NW | 027 | 10/02/20 | * | | | |
| 43a | Potomac and Water Streets, NW | 027 | 10/02/20 | * | | | |
| 44 | Water Street, west of Potomac St, NW | 027 | 10/02/20 | * | | | |
| 45 | 36 th and M Streets, NW | 028 | 10/01/20 | * | | | |
| 46 | Canal Rd, 1000ft. east of Foxhall Rd, NW | 029 | 10/01/20 | * | | | |
| 47 | 38 th Street and Reservoir Road, NW | 029 | 10/01/20 | * | | | |
| 47a | 37 th and T Streets, NW | 029 | 10/01/20 | * | | | |
| 47b | 37 th and T Streets, NW | 029 | 10/01/20 | * | | | |
| 47c | 38 th and W Streets, NW | 029 | 10/01/20 | * | | | |
| 49 ^l | Pennsylvania Ave, east side of Rock Creek, NW | 031 | N/A | | | | |
| 50 | 26 and M Streets, NW | 032 | 10/26/20 | * | | | |
| 51 | N Street Extended, west of 25 th Street, NW | 033 | 10/26/20 | * | | | |
| 52 | 22 nd Street between M and N Streets, NW | 034 | 10/22/20 | * | | | |
| 52a | N Street between 22 nd and 23 rd Streets, NW | 034 | 10/22/20 | * | | | |
| 53 | 22 nd and M Streets, NW | 022, 034 | 10/26/20 | * | | | |
| 53a | 22 nd and M Streets, NW | 022, 034 | 10/26/20 | * | | | |
| 53b | L Street between 21 st Street and New Hampshire Ave, NW | 022, 034 | 10/09/20 | * | | | |
| 53c | L and 22 nd Streets, NW | 022 | 10/09/20 | * | | | |
| 54 | 23 rd and O Streets, NW | 034 | 10/07/20 | * | | | |
| 55 | 22 nd Street, south of Q Street, NW | 035 | 10/07/20 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 55a | 22 nd Street, south of Q Street, NW | 035 | 10/07/20 | * | | | |
| 56 | 23 rd and Massachusetts Ave, NW | 036 | 10/07/20 | * | | | |
| 57 | 23 rd Street, south of Q Street, NW | 036 | 10/07/20 | * | | | |
| 58 ^l | Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW | 037 | N/A | | | | |
| 59 | North of Belmont Rd, east of Kalorama Cir, NW | 038 | 10/01/20 | * | | | |
| 60 | Connecticut Ave, east of Rock Creek, NW | 039 | 10/01/20 | * | | | |
| 61 | Biltmore St, Extended, east of Rock Creek, NW | 040 | 10/01/20 | * | | | |
| 62 | Ontario Rd, Extended, and Rock Creek Pkwy, NW | 041 | 10/14/20 | * | | | |
| 63 | Harvard Street and Rock Creek Parkway, NW | 042 | 10/14/20 | * | | | |
| 64 | Adams Mill Road, south of Irving Street, NW | 043 | 10/14/20 | * | | | |
| 65 | Kenyon Street and Adams Mill Road, NW | 044 | 10/14/20 | * | | | |
| 65a | Kenyon Street and Adams Mill Road, NW | 044 | 10/14/20 | * | | | |
| 66 | Adams Mill Road and Lamont Street, NW | 045 | 10/14/20 | * | | | |
| 67 | Park Rd , south of Piney Branch Pkwy, NW | 046 | 10/14/20 | * | | | |
| 68 | Ingleside Terrance, Extended and Piney Branch Parkway, NW | 047 | 10/14/20 | * | | | |
| 69 | Mt. Pleasant Street, Extended and Piney Branch Parkway, NW | 048 | 10/14/20 | * | | | |
| 70 | Piney Branch Parkway, west of 16 th Street, NW | 049 | 10/14/20 | * | | | |
| 70i | 5 th and Quackenbos Streets, NW | 049 | 10/26/20 | * | | | |
| 71 | 28 th Street, west of Rock Creek Parkway, NW | 050 | 10/09/20 | * | | | |
| 72 | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 10/07/20 | * | | | |
| 72a | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 10/07/20 | * | | | |
| 73 | O Street Extended and Rock Creek Parkway, NW | 052 | 10/07/20 | * | | | |
| 74 ^l | Q Street, west of Rock Creek, NW | 053 | N/A | | | | |
| 75 | West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW | 054 | 10/09/20 | * | | | |
| 77 | Normanstone Dr Extended, west of Rock Creek, NW | 056 | 10/09/20 | * | | | |
| 77a | Normanstone Dr and Normanstone Lane, NW | 056 | 10/09/20 | * | | | |
| 78 ^l | 28th Street Extended, west of Rock Creek, NW | 057 | N/A | | | | |
| 79 ^l | Connecticut Ave and Rock Creek Parkway, NW | 058 | N/A | | | | |
| 84 | 26 th and P Streets, NW | 060 | 10/07/20 | * | | | |
| 84a | 26 th and P Streets, NW | 060 | 10/07/20 | * | | | |
| 86 | Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel) | 019 | 10/21/20 | * | | | |
| 88 | Flagler and Adams St. NW (First St Tunnel) | 019 | 10/21/20 | * | | | |

| 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 | 10/21/20 | * | | | |
| 90 | First and V St, NW (First St Tunnel) | 019 | 10/21/20 | * | | | |
| 91 | First and V St, NW (First St Tunnel) | 019 | 10/21/20 | * | | | |
| 92 | CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel) | 019 | 10/20/20 | * | | | |
| 93 | CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel) | 018 | 10/20/20 | * | | | |
| 95 | M Street Approach Channel M and Water St SE (Anacostia River Tunnel) | 015, 016, 017 | 10/20/20 | * | | | |
| 96 | CSO 007 Shaft at 11 th St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel) | 007 | 10/20/20 | * | | | |
| 97 | CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel) | 005 | 10/20/20 | * | | | |
| 98 | Main Pumping Station Diversions (Anacostia River Tunnel) | 009 - 012 | 10/28/20 | * | | | |
| 99 | CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel) | 009, 011a | 10/08/20 | * | | | |
| 100 | CSO 012 Diversion Facilities (Anacostia River Tunnel) | 012 | 10/08/20 | * | | | |
| 101 | Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel) | N/A | 10/23/20 | * | | | |
| 102 | Anacostia Main Interceptor Diversion Chamber | N/A | 10/23/20 | * | | | |
| 103 | Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel) | N/A | 10/23/20 | * | | | |
| 104 | Poplar Point PS Discharge Chamber | N/A | 10/23/20 | * | | | |
| 105 | Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel) | 003A | 10/23/20 | * | | | |

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 ¹ | Bolling Air Force Base, at Giavanolli and Chanute, SW | N/A | | | | | | | | | |

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|--------------------------|----|------------------------|---------------|----------|---------------|--------------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 003a | Joint Base Anacostia Bolling Macdill and Arnold Ave SW | 10/23/20 | * | | * | | * | | * | | |
| 005 | Across from Navy Yard, aligned with Parsons Ave., SE | 10/29/20 | * | | * | | * | | * | | |
| 006 ¹ | Good Hope Road and Welsh Memorial Bridge | N/A | | | | | | | | | |
| 007 | Between 11 th St. and Anacostia Bridges, SE | 10/29/20 | * | | * | | * | | * | | |
| 009 | O St. Sewage Pumping Station, SE | 10/27/20 | * | | * | | * | | * | | |
| 010 | O St. Sewage Pumping Station, SE | 10/27/20 | * | | | * | | | * | | |
| 011 | Main Sewage Pumping Station, SE | 10/27/20 | * | | | * | | | * | | |
| 011a | Main Sewage Pumping Station, SE | 10/27/20 | * | | * | | * | | * | | |
| 012 | Main Sewage Pumping Station, SE | 10/27/20 | * | | * | | * | | * | | |
| 013 | Southeast Federal Center, aligned with 4 th St. | 10/27/20 | * | | * | | * | | * | | |
| 014 | Navy Yard, aligned with 6 th St., SE | 10/27/20 | * | | * | | * | | * | | |
| 015 | Navy Yard, aligned with 9th Street, SE | 10/27/20 | * | | | * | | | * | | |
| 016 | 12th and O Streets, SE | 10/15/20 | * | | * | | * | | * | | |
| 017 | M and Water Street, SE | 10/15/20 | * | | * | | * | | * | | |
| 018 | East of Barney Circle & South of Pennsylvania Avenue Bridge, SE | 10/15/20 | * | | * | | * | | * | | |
| 019 | Adjacent to Service Drive behind swirl facility & D.C. General Hospital | 10/20/20 | * | | * | | * | | * | | |
| 019a | Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure) | 10/20/20 | * | | * | | * | | * | | |
| 020 | Rock Creek Parkway and Independence, NW | 10/15/20 | * | | * | | * | | * | | |
| 021 | Rock Creek Parkway and C St., NW | 10/15/20 | * | | | * | | | * | | |
| 022 | Rock Creek Parkway and G St., NW | 10/15/20 | * | | * | | * | | * | | |
| 024 | South of 30 th and K Streets, NW ¹ | 10/15/20 | * | | * | | * | | * | | |
| 025 | South of 31st and K Streets, NW | 10/15/20 | * | | * | | * | | * | | |
| 026 | Wisconsin Avenue and Water Street, NW | 10/15/20 | * | | * | | * | | * | | |
| 027 | 33 rd and Water Sts., NW | 10/15/20 | * | | | * | | | * | | |
| 028 | Key Bridge and Whitehurst Freeway, NW | 10/15/20 | * | | | * | | | * | | |
| 029 | Adjacent to C&O Canal, aligned with 38 th St. NW | 10/15/20 | * | | | * | | | * | | DWO observed, see page 14, section 3 |
| 031 ¹ | Rock Creek Pkwy & Pennsylvania Avenue, NW | N/A | | | | | | | | | |
| 032 | 26th and M Street, NW | 10/26/20 | * | | | * | | | * | | |
| 033 | Across street from St. Francis Jr. High and aligned with N St., NW. | 10/26/20 | * | | * | | * | | * | | |
| 034 | Just west of St. Francis Jr. High and north of N St., NW | 10/07/20 | * | | | * | | | * | | |
| 035 | P St. Bridge and Rock Creek Parkway | 10/07/20 | * | | | * | | | * | | |

| 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 | |
| 036 | 22nd Street, South of Q Street NW. | 10/29/20 | * | | * | | * | | * | | |
| 037 ¹ | Waterside Dr. and Rock Creek Parkway | N/A | | | | | | | | | |
| 038 | Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW. | 10/01/20 | * | | * | | * | | * | | |
| 039 | Connecticut Avenue Bridge and Rock Creek Parkway, NW. | 10/01/20 | * | | * | | * | | * | | |
| 040 | Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge. | 10/01/20 | * | | * | | * | | * | | |
| 041 | Beach Dr. and Ontario Pl., NW | 10/29/20 | * | | * | | * | | * | | |
| 042 | Harvard St. and Beach Dr NW. | 10/29/20 | * | | * | | * | | * | | |
| 043 | Upstream of Harvard St. and Beach Dr NW. | 10/29/20 | * | | * | | * | | * | | |
| 044 | Kenyon Street and Beach Dr., NW. | 10/29/20 | * | | * | | * | | * | | |
| 045 | North of Beach Dr. and Walbridge Pl, NW. | 10/29/20 | * | | * | | * | | * | | |
| 046 | Piney Branch Parkway and Park Road, NW. | 10/14/20 | * | | | * | | | * | | |
| 047 | Piney Branch Parkway and Ingleside Terrace | 10/14/20 | * | | * | | * | | * | | |
| 048 | South of Piney Branch Parkway and 17 th St. | 10/14/20 | * | | * | | * | | * | | |
| 049 | North of Piney Branch Parkway and 17 th St. | 10/14/20 | * | | * | | * | | * | | |
| 050 | Rock Creek Parkway and L St., NW | 10/09/20 | * | | * | | * | | * | | |
| 051 | Across Rock Creek Pkwy, aligned with Olive St., NW. | 10/29/20 | * | | * | | * | | * | | |
| 052 | Between P & Penna. Ave Bridges, aligned with O Street, NW. | 10/29/20 | * | | * | | * | | * | | |
| 053 ¹ | Q St. Bridge and Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 054 | Massachusetts Ave & Rock Creek Parkway, NW. | 10/09/20 | * | | * | | * | | * | | |
| 056 | Normanstone Dr. and Rock Creek Parkway, NW. | 10/09/20 | * | | * | | * | | * | | |
| 057 ¹ | 28th Street and Rock Creek Parkway, NW | N/A | | | | | | | | | |
| 058 ¹ | Connecticut Ave & Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 060 | North of P St. Bridge & Rock Creek Pkwy, NW | 10/29/20 | * | | * | | * | | * | | |

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 ¹ | 31 | 4 | 5 | Screen #1 | 10/01/20 – 10/31/20 | Bent rake and scraper bar, screen is off track. | 20-675279 | Anticipated 12/31/20. The screen has been disconnected for repair. Awaiting parts from manufacturer. |
| | | | | Screen #2 | 10/15/20 – 10/20/20 | Bent rake, screen is off track. | 21-38695 | Returned to service on 10/21/20. The rake has been repaired and placed back on track. |
| | | | | Pump #5 | 10/01/20 – 10/31/20 | Bearing and vibration issue, pump not running. | 20-404901 | Anticipated 12/31/20. The pump and motor have been disconnected for repair and the parts have been received. After further visual inspection, additional damage of the impeller welding was found. The impeller and rotating assembly are currently being repaired. |

Notes:

1. While two screens were periodically out of service during the month of October 2020, firm pumping capacity was maintained by keeping the screening channel open to allow flow through to the pumps. Debris was manually removed as needed.

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

| <i>Pumping Station</i> | <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed</i> ^{1,2} | <i>Work Order Number</i> | <i>Comments</i> |
|--|-----------------------|--|--------------------------|---|
| Main | 10/21/20 | Group A | 20-649780 | Add oil, grease bearings and replace packing if needed. |
| O St | 10/12/20 | Group A | 20-680565 | Add oil, grease bearings and replace packing if needed. |
| Eastside | 10/31/20 | Group A | 20-664311 | Add oil, grease bearings and replace packing if needed. |
| Poplar Point | 10/31/20 | Group A | 20-652346 | Add oil, grease bearings and replace packing if needed. |
| Potomac | 10/28/20 | Group A | 20-671611 | Add oil, grease bearings and replace packing if needed. |
| Rock Creek | 10/31/20 | Group A | 20-642942 | Add oil, grease bearings and replace packing if needed. |
| Upper Anacostia | 10/31/20 | Group A | 20-652638 | Add oil, grease bearings and replace packing if needed. |
| Earl Place | 10/31/20 | Group A | 20-627242 | Add oil, grease bearings and replace packing if needed. |
| 1 st Street Tunnel Dewatering | 10/31/20 | Group B | 21-74105 | |

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)¹</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 ^{1,2} | 1554.49 | 50.14 | N/A | N/A | N/A |
| O St ^{1,2} | 132.49 | 4.27 | N/A | N/A | N/A |
| Eastside | 131.07 | 4.23 | N/A | N/A | N/A |
| Poplar Point | 370.78 | 11.96 | N/A | N/A | N/A |
| Potomac | 3811.59 | 122.95 | N/A | N/A | N/A |
| Rock Creek | 154.42 | 4.98 | N/A | N/A | N/A |
| Upper Anacostia | 46.31 | 1.49 | N/A | N/A | N/A |
| Earl Place | 0.466 | 0.015 | N/A | N/A | N/A |
| 1 st Street Tunnel Dewatering ³ | N/A | N/A | N/A | 10/7/20 | 0.11 |
| | | | | 10/20/20 | 0.18 |
| | | | | 10/24/20 | 0.05 |
| | | | | 10/25/20 | 0.03 |

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.
3. The flow meter for the pumping station was found to be defective and did not record discharges. DC Water has ordered and received a replacement flow meter; however, the meter has not been installed due to space limitations around the current contractor. Work delays can also be attributed to permitting, public notifications, and moratoriums during the presidential election. The flow meter is scheduled for installation during the week of 11/9/2020. In the interim, the flow will be estimated based on pump run times and pump capacity. Pump data indicate activity on four occurrences in the month of October: 51 minutes on 10/7/2020, 85 minutes on 10/20/20, 26 minutes on 10/24/20, 16 minutes on 10/25/20. **The estimated volume is 0.37 MG for the month of October 2020.

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 | 10/8/20 | No | N/A | N/A | N/A |
| 14 - West | 10/8/20 | No | N/A | N/A | N/A |
| 15 | 10/8/20 | No | N/A | N/A | N/A |
| 15A | 10/22/20 | No | N/A | N/A | N/A |
| 16 - East | 10/8/20 | No | N/A | N/A | N/A |
| 16 - West | 10/8/20 | No | N/A | N/A | N/A |
| 34 | 10/22/20 | No | N/A | N/A | N/A |
| 35 | 10/22/20 | No | N/A | N/A | N/A |
| 52 | 10/22/20 | No | 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> |
|-------------------------------------|---------------------------|--|
| 14 (E & W) ^{1,2,3,4,5} | 10/8/20 | 11 hrs. 17 mins |
| | 10/9/20 | 1 hr. 26 mins |
| | 10/13/20 | 4 hrs. 38 mins |
| | 10/19/20 | 1 hr. 32 mins |
| | 10/23/20 | 0 hrs. 41 mins |
| 15 | None | N/A |
| 15A | None | N/A |
| 16 (E & W) | None | N/A |
| 34 ⁶ | 10/3/20 | 18 hrs. 52 mins |
| 35 ⁷ | 10/3/20 | 9 hr. 49 mins |
| | 10/29/20 | 0 hrs. 24 mins |
| 52 | None | N/A |
| | | |
| <i>Structures on Outfall Sewers</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</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 |

Notes:

- On 10/08/20, Structure 14 (E & W) deflated due to a faulty blower motor and belt which resulted in deflation. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold. As this was a dry day, temporary repair of the blower motor and belt was completed to return the structure to service the same day. A continuation and completion of the repair work occurred on the following day.
- On 10/09/20, Structure 14 (E & W) was manually deflated to continue the repair work of the faulty blower motor and belt. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold. The blower motor and belt was repaired and returned to service the same day.
- On 10/13/20, Structure 14 (E & W) was manually deflated due to corrective maintenance performed on the PLC instrumentation. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.
- On 10/19/20, Structure 14 (E & W) had scheduled corrective maintenance performed to replace broken blower belts. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold. The blower belts were repaired the same day and the structure was returned to service in less than 24 hours.
- On 10/23/20, Structure 14 (E & W) had scheduled predictive maintenance performed to inspect the blower and motor alignment. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.
- On 10/3/20, Structure 34 experienced a drop in air pressure due to a PEPCO power outage, which resulted in a dam deflation. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.
- On 10/3/20, Structure 35 experienced a drop in air pressure due to a PEPCO power outage, which resulted in a dam deflation. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

3. DRY WEATHER OVERFLOWS

There was one dry weather combined sewer overflow reported during October 2020.

On October 19, 2020, DC Water responded to a Dry Weather Overflow (DWO) that was discharging to CSO 029 from September 16, 2020 to October 19, 2020. Details regarding this DWO and DC Water's response were reported to EPA and DOEE in the letter dated October 23, 2020. DC Water determined approximately 9.5 million gallons discharged in the month of September, 2020.

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 | 652 | 652 | 1370 | 1338 | 7 | 7 | 1377 | 1345 |
| 2 | 2792 | 2642 | 476 | 476 | 292 | 2486 | 2116 | 269 | 269 | 2755 | 2385 |
| 3 | 3687 | 187 | 0 | 0 | 0 | 3454 | 181 | 0 | 0 | 3454 | 181 |
| 4 | 3495 | 1723 | 0 | 0 | 0 | 3333 | 1505 | 13 | 12 | 3346 | 1517 |
| 5 | 4007 | 1769 | 1692 | 1692 | 1034 | 2717 | 502 | 632 | 632 | 3349 | 1134 |
| 6 | 3316 | 2666 | 2647 | 2647 | 1288 | 263 | 161 | 1382 | 1382 | 1645 | 1543 |
| 7 | 3785 | 43 | 41 | 41 | 27 | 2144 | 0 | 29 | 28 | 2173 | 28 |
| 8 | 2832 | 212 | 209 | 209 | 197 | 2050 | 5 | 0 | 0 | 2050 | 5 |
| Grand Total | 25363¹ | 10668¹ | 5717¹ | 5717² | 3490² | 17817² | 5808² | 2332² | 2330² | 20149² | 8138² |
| % Cleaned/Inspected to Date | | | | 100% | 61% | | | | | 79% | 76% |

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.
2. These are estimated counts from sewer maps until the existing Sewer Mobile APP for field data is updated and reprogrammed for use.

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 | 10/01/20 | Good | None | Routine Cleaning | (1) |
| Bar Rack CSO 041 | 10/29/20 | 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> | 22 |
| <i>Days not Operating</i> | 5 |
| <i>Reason not Operating</i> | Maintenance, wind, low water levels, lightening. |
| <i># Skimmer in Fleet</i> | 3 Skimmers |
| <i># Skimmers Out of Service</i> | 3 Skimmers |
| <i>Dates</i> | B32: 10/19 - 10/22 and 10/29 - 10/31. B33: 10/1 - 10/31. B34: 10/3 - 10/5. |
| <i>Reason</i> | B32: no start and hyd ram leaking. B33: hyd ram leaking. B43: control stick failure. |
| <i>Plan to Restore to Service</i> | B32 and B33: waiting for parts. ETR unknown. B34: returned to operations on 10/6. |
| <i>Amount Material Collected</i> | 10 tons this month. Calendar year to date 165 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**

Inspector: Keith Watts

| Pumping Station | Inspector | 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) | KW | 10/31/20 | X | | 21-32657 | | |
| Bar Racks at Main Storm Pumps (CSO 011) | KW | 10/31/20 | X | | 21-32650 | | |

5.2 Rain Data

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

| Date | Brentwood Pumping Station | Bryant Street Pumping Station | Main Pumping Station | Rock Creek Pumping Station | National Airport |
|------------|---------------------------|-------------------------------|----------------------|----------------------------|------------------|
| 10/1/2020 | 0.02 | 0.01 | 0 | 0.01 | 0.04 |
| 10/2/2020 | 0.09 | 0.07 | 0.09 | 0.08 | 0.07 |
| 10/3/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/4/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/5/2020 | 0.01 | 0 | 0.01 | 0 | 0.02 |
| 10/6/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/7/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/8/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/9/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/10/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/11/2020 | 0.60 | 0.60 | 0.68 | 0.58 | 0.68 |
| 10/12/2020 | 0.86 | 0.75 | 0.57 | 0.97 | 0.86 |
| 10/13/2020 | 0.01 | 0 | 0.01 | 0.01 | 0 |
| 10/14/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/15/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/16/2020 | 0.16 | 0.14 | 0.13 | 0.18 | 0.16 |
| 10/17/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/18/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/19/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/20/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/21/2020 | 0 | 0 | 0 | 0 | 0.01 |
| 10/22/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/23/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/24/2020 | 0 | 0.01 | 0 | 0 | 0 |
| 10/25/2020 | 0.49 | 0.48 | 0.44 | 0.53 | 0.45 |
| 10/26/2020 | 0 | 0.01 | 0.01 | 0 | 0 |
| 10/27/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/28/2020 | 0 | 0 | 0 | 0 | 0 |
| 10/29/2020 | 2.26 | 1.98 | 1.89 | 2.26 | 2.26 |
| 10/30/2020 | 0.30 | 0.22 | 0.25 | 0.29 | 0.31 |
| 10/31/2020 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 4.50 | 4.05 | 3.83 | 4.62 | 4.55 |

5.3 Wet Weather Overflows

Combined Sewer System Model Results are summarized below.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results

Period: October - December 2020

SCENARIO: QuarterlyReport_2020Q4 , revised Jan 19, 2021

| 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) |
|-----------------------|---|-------------------------------|-----------------------------------|--------------------------|----------------------------------|--------------------------------|------------------------------------|------------------------------------|
| Anacostia CSOs | | | | | | | | |
| 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 th Street and Ridge Place, SE | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 009 | 2nd Street, 300 feet North of N Place, SE | Metered | 1 | 0.004 | 0.50 | 0.50 | 0.50 | 0.50 |
| 010 | O Street Sewage Pumping Station, SE (pumped overflow) | Modeled* | 3 | 14.58 | 3.50 | 1.17 | 1.50 | 0.75 |
| 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) | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 012 | North of Main Sewage Pumping Station, SE (Tiber Creek) | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 013 | 4th and N Streets, SE | Modeled | 1 | 0.22 | 1.50 | 1.50 | 1.50 | 1.50 |
| 014 | 6th and M Streets, SE | Modeled | 1 | 0.47 | 1.50 | 1.50 | 1.50 | 1.50 |
| 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 | Modeled* | 1 | 16.19 | 0.50 | 0.50 | 0.50 | 0.50 |
| 019A | Northeast Boundary - Tunnel OF | Metered | 1 | 0.32 | 0.25 | 0.25 | 0.25 | 0.25 |
| | SUBTOTAL | | | 31.79 | | | | |
| Potomac CSOs | | | | | | | | |
| 003A | JBAB Tunnel OF | Metered | 1 | 0.93 | 0.92 | 0.92 | 0.92 | 0.92 |
| 020 | 23rd Street, North of Constitution Ave, NW (Easby Point) | Modeled | 9 | 41.65 | 37.75 | 4.19 | 8.50 | 1.50 |
| 021 | Northeast of Roosevelt Bridge, NW | Modeled | 10 | 220.99 | 43.50 | 4.35 | 8.50 | 0.50 |
| 022 | 27th and K Streets, NW | Modeled | 10 | 14.26 | 48.50 | 4.85 | 10.00 | 0.25 |
| 024 | 30th and K Streets, NW | Modeled | 9 | 17.33 | 40.00 | 4.44 | 12.50 | 0.75 |
| 025 | 31st & K St NW | Modeled | 3 | 0.11 | 2.25 | 0.75 | 1.00 | 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 | 10 | 10.31 | 57.00 | 5.70 | 11.00 | 1.75 |
| 028 | 36th and M Streets, NW | Modeled | 12 | 5.76 | 134.75 | 11.23 | 27.25 | 1.75 |
| 029 | Canal Road 1000 feet east of Rock Creek, NW | Modeled | 10 | 14.35 | 61.50 | 6.15 | 10.50 | 1.75 |
| | SUBTOTAL | | | 325.68 | | | | |
| Rock Creek | | | | | | | | |
| 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 | 9 | 0.621 | 37.00 | 4.11 | 8.25 | 1.25 |
| 037 | Northwest of Belmont and Rock Creek and Potomac Parkway | separated | | | | | | |
| 038 | North of Belmont Road east of Kalorama Circle, NW | Modeled | 0 | 0.0000 | 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 | Biltmore 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 | 2 | 0.37 | 0.75 | 0.38 | 0.50 | 0.25 |
| 044 | Kenyon Street and Adams Mill Road, NW | Modeled | 1 | 0.02 | 0.25 | 0.25 | 0.25 | 0.25 |
| 045 | Adams Mill Road and Lamont Street, NW | Modeled | 3 | 0.05 | 0.75 | 0.25 | 0.25 | 0.25 |
| 046 | Park Road south of Piney Branch Parkway, NW | Modeled | 1 | 0.02 | 0.25 | 0.25 | 0.25 | 0.25 |
| 047 | Ingleside Terrace extended and Piney Branch Parkway | Modeled | 1 | 0.07 | 0.50 | 0.50 | 0.50 | 0.50 |
| 048 | Mt. Pleasant Street extended and Piney Branch Parkway | Modeled | 1 | 0.10 | 0.25 | 0.25 | 0.25 | 0.25 |
| 049 | Piney Branch and Lamont Street, NW | Modeled | 4 | 20.40 | 4.25 | 1.06 | 2.00 | 0.25 |
| 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 th St, NW | Modeled | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | SUBTOTAL | | | 21.65 | | | | |
| | TOTAL | | | 379.12 | | | | |

* Overflow flow meter out of service; model output has been used for report

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



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

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

Month: November 2020

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

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

Monthly Operations Report for Combined Sewer System
Month: November 2020
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 - 5.3 Wet Weather Overflows

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 ¹ | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | N/A | | | | |
| 4 ¹ | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | N/A | | | | |
| 5 ¹ | Poplar Point Pumping Station | 004 | N/A | | | | |
| 6 | Chicago Street and Railroad Ave, SE | 005 | 11/16/20 | * | | | |
| 7 | W Street and Railroad Ave, SE | 005 | 11/16/20 | * | | | |
| 8 ¹ | Good Hope Rd, west of Nichols Ave, SE | 006 | N/A | | | | |
| 9 | 13 th Street and Ridge Place, SE (Diversion Structure) | 007 | 11/16/20 | * | | | |
| 9a | 13 th Street and Ridge Place, SE (Regulator Structure) | 007 | 11/16/20 | * | | | |
| 9b | 11 th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber) | 007 | 11/16/20 | * | | | |
| 11 | "O" Street Pumping Station | 011(a) | 11/23/20 | * | | | |
| 12 | Storm Pump Discharge at Main Pumping Station | 011 | 11/25/20 | * | | | |
| 13 | 2 nd Street, 300 ft. north of N Place, SE | 009 | 11/17/20 | * | | | |
| 14 | 2 nd Street, 250 ft. north of N Place, SE | 011(a) | 11/17/20 | * | | | |
| 15 | South Capitol and E Streets | 010 | 11/17/20 | * | | | |
| 15a | Half and L Streets, SE | 010 | 11/19/20 | * | | | |
| 15b | South Capitol and I Streets | 010 | 11/04/20 | * | | | |
| 15c | South Capitol and I Streets | 010 | 11/04/20 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|---|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 16 | North of Main Sewage Pumping Station | 012 | 11/17/20 | * | | | |
| 17 | 4 th and N Streets, SE, Both Extended | 013 | 11/18/20 | * | | | |
| 17a | K Street between 6 th Street and 7 th Street, SE (Side Overflow Weir) | 013 | 11/23/20 | * | | | |
| 17b | 4 th and N Streets, SE, Both Extended (CSO-013 Diversion Chamber) | 013 | 11/18/20 | * | | | |
| 18 | 6 th and M Streets, SE (Diversion and Overflow Structure) | 014 | 11/16/20 | * | | | |
| 18a | Tingey Street SE and 5 1 / 2 Street SE (CSO-014 Diversion Chamber) | 014 | 11/18/20 | * | | | |
| 19 | 9 th and M Streets, SE | 015 | 11/18/20 | * | | | |
| 19a | 9 th and M Streets, SE | 015 | 11/18/20 | * | | | |
| 19b | 9 th and M Streets, SE (Diversion Chamber) | 015 | 11/18/20 | * | | | |
| 19c | 9 th and M Streets, SE (Diversion Chamber) | 015 | 11/18/20 | * | | | |
| 20 | 12 th and M Streets, SE | 016 | 11/16/20 | * | | | |
| 20a | 12 th and M Streets, SE | 016 | 11/16/20 | * | | | |
| 20b | 12 th and M Streets, SE (CSO-016 Diversion Chamber) | 016 | 11/16/20 | * | | | |
| 21 | 14 th and M Streets, SE | 017 | 11/16/20 | * | | | |
| 21a | 14 th and M Streets, SE (CSO-017 Diversion Chamber) | 017 | 11/16/20 | * | | | |
| 22a | Barney Circle and Pennsylvania Ave, SE | 018 | 11/20/20 | * | | | |
| 22b | Barney Circle and Pennsylvania Ave, SE | 018 | 11/20/20 | * | | | |
| 22c | Barney Circle and Pennsylvania Ave, SE | 018 | 11/20/20 | * | | | |
| 22d | Kentucky Ave and Potomac Street, SE | 018 | 11/20/20 | * | | | |
| 22e | 14 th Street and Kentucky Ave, SE | 018 | 11/20/20 | * | | | |
| 23 | Independence Ave, 21 st Street, SE, Extended | 019 | 11/23/20 | * | | | |
| 24a | East Capitol St, west of RFK stadium | 019 | 11/23/20 | * | | | |
| 28 | 21 st and Constitution Ave, NW | 020 | 11/04/20 | * | | | |
| 29 | 22 nd Street, between Constitution Ave and C St, NW | 020 | 11/04/20 | * | | | |
| 30 | 17 th and D Streets, NW | 020 | 11/04/20 | * | | | |
| 31 | 15 th Street and Pennsylvania Ave, NW | 020 | 11/04/20 | * | | | |
| 33 | 10 th and F Streets, NW | 020 | 11/04/20 | * | | | |
| 34 | 23 rd Street, north of Constitution Ave, NW | 020 | 11/19/20 | * | | | |
| 34a | 23 rd Street near C Street, NW | 020 | 11/04/20 | * | | | |
| 35 | Northeast of Roosevelt Bridge, NW | 021 | 11/19/20 | * | | | |
| 35c | Kennedy Center Rock Creek and Potomac Pkwy Northeast of Roosevelt Bridge, NW | 021 | 11/19/20 | * | | | |
| 36 | 27 th and I Streets, NW | 022 | 11/04/20 | * | | | |

| 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 | 11/04/20 | * | | | |
| 36b | 19 th and L Streets, NW | 022, 034 | 11/03/20 | * | | | |
| 36d | 17 th and L Streets, NW | 022, 034 | 11/03/20 | * | | | |
| 36g | 18 th and M Streets, NW | 022, 034 | 11/03/20 | * | | | |
| 36h | 18 th and M Streets, NW | 022, 034 | 11/03/20 | * | | | |
| 37 | 27 th and Eye Streets, NW | 022 | 11/04/20 | * | | | |
| 38 | 29 th and K Streets, NW | 024 | 11/03/20 | * | | | |
| 38a | 30 th Street, south of K Street, NW | 024 | 11/03/20 | * | | | |
| 39a | 30 th and K Streets, NW | 024 | 11/03/20 | * | | | |
| 39b | 30 th and K Streets, NW | 024 | 11/03/20 | * | | | |
| 41b | 31 st and K Streets, NW | 025 | 11/03/20 | * | | | |
| 41c | 31 st and K Streets, NW | 025 | 11/03/20 | * | | | |
| 42 | Wisconsin Ave and K Street, NW | 026 | 11/03/20 | * | | | |
| 43 | Potomac and Water Streets, NW | 027 | 11/03/20 | * | | | |
| 43a | Potomac and Water Streets, NW | 027 | 11/03/20 | * | | | |
| 44 | Water Street, west of Potomac St, NW | 027 | 11/03/20 | * | | | |
| 45 | 36 th and M Streets, NW | 028 | 11/06/20 | * | | | |
| 46 | Canal Rd, 1000ft. east of Foxhall Rd, NW | 029 | 11/06/20 | * | | | |
| 47 | 38 th Street and Reservoir Road, NW | 029 | 11/06/20 | * | | | |
| 47a | 37 th and T Streets, NW | 029 | 11/13/20 | * | | | |
| 47b | 37 th and T Streets, NW | 029 | 11/13/20 | * | | | |
| 47c | 38 th and W Streets, NW | 029 | 11/13/20 | * | | | |
| 49 ^l | Pennsylvania Ave, east side of Rock Creek, NW | 031 | N/A | | | | |
| 50 | 26 and M Streets, NW | 032 | 11/23/20 | * | | | |
| 51 | N Street Extended, west of 25 th Street, NW | 033 | 11/23/20 | * | | | |
| 52 | 22 nd Street between M and N Streets, NW | 034 | 11/19/20 | * | | | |
| 52a | N Street between 22 nd and 23 rd Streets, NW | 034 | 11/19/20 | * | | | |
| 53 | 22 nd and M Streets, NW | 022, 034 | 11/19/20 | * | | | |
| 53a | 22 nd and M Streets, NW | 022, 034 | 11/19/20 | * | | | |
| 53b | L Street between 21 st Street and New Hampshire Ave, NW | 022, 034 | 11/12/20 | * | | | |
| 53c | L and 22 nd Streets, NW | 022 | 11/12/20 | * | | | |
| 54 | 23 rd and O Streets, NW | 034 | 11/12/20 | * | | | |
| 55 | 22 nd Street, south of Q Street, NW | 035 | 11/12/20 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 55a | 22 nd Street, south of Q Street, NW | 035 | 11/12/20 | * | | | |
| 56 | 23 rd and Massachusetts Ave, NW | 036 | 11/12/20 | * | | | |
| 57 | 23 rd Street, south of Q Street, NW | 036 | 11/12/20 | * | | | |
| 58 ^l | Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW | 037 | N/A | | | | |
| 59 | North of Belmont Rd, east of Kalorama Cir, NW | 038 | 11/13/20 | * | | | |
| 60 | Connecticut Ave, east of Rock Creek, NW | 039 | 11/13/20 | * | | | |
| 61 | Biltmore St, Extended, east of Rock Creek, NW | 040 | 11/13/20 | * | | | |
| 62 | Ontario Rd, Extended, and Rock Creek Pkwy, NW | 041 | 11/10/20 | * | | | |
| 63 | Harvard Street and Rock Creek Parkway, NW | 042 | 11/10/20 | * | | | |
| 64 | Adams Mill Road, south of Irving Street, NW | 043 | 11/10/20 | * | | | |
| 65 | Kenyon Street and Adams Mill Road, NW | 044 | 11/10/20 | * | | | |
| 65a | Kenyon Street and Adams Mill Road, NW | 044 | 11/10/20 | * | | | |
| 66 | Adams Mill Road and Lamont Street, NW | 045 | 11/10/20 | * | | | |
| 67 | Park Rd , south of Piney Branch Pkwy, NW | 046 | 11/10/20 | * | | | |
| 68 | Ingleside Terrance, Extended and Piney Branch Parkway, NW | 047 | 11/10/20 | * | | | |
| 69 | Mt. Pleasant Street, Extended and Piney Branch Parkway, NW | 048 | 11/10/20 | * | | | |
| 70 | Piney Branch Parkway, west of 16 th Street, NW | 049 | 11/10/20 | * | | | |
| 70i | 5 th and Quackenbos Streets, NW | 049 | 11/04/20 | * | | | |
| 71 | 28 th Street, west of Rock Creek Parkway, NW | 050 | 11/23/20 | * | | | |
| 72 | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 11/12/20 | * | | | |
| 72a | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 11/12/20 | * | | | |
| 73 | O Street Extended and Rock Creek Parkway, NW | 052 | 11/12/20 | * | | | |
| 74 ^l | Q Street, west of Rock Creek, NW | 053 | N/A | | | | |
| 75 | West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW | 054 | 11/13/20 | * | | | |
| 77 | Normanstone Dr Extended, west of Rock Creek, NW | 056 | 11/13/20 | * | | | |
| 77a | Normanstone Dr and Normanstone Lane, NW | 056 | 11/13/20 | * | | | |
| 78 ^l | 28th Street Extended, west of Rock Creek, NW | 057 | N/A | | | | |
| 79 ^l | Connecticut Ave and Rock Creek Parkway, NW | 058 | N/A | | | | |
| 84 | 26 th and P Streets, NW | 060 | 11/12/20 | * | | | |
| 84a | 26 th and P Streets, NW | 060 | 11/12/20 | * | | | |
| 86 | Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel) | 019 | 11/18/20 | * | | | |
| 88 | Flagler and Adams St. NW (First St Tunnel) | 019 | 11/18/20 | * | | | |

| 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 | 11/18/20 | * | | | |
| 90 | First and V St, NW (First St Tunnel) | 019 | 11/18/20 | * | | | |
| 91 | First and V St, NW (First St Tunnel) | 019 | 11/18/20 | * | | | |
| 92 | CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel) | 019 | 11/18/20 | * | | | |
| 93 | CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel) | 018 | 11/18/20 | * | | | |
| 95 | M Street Approach Channel M and Water St SE (Anacostia River Tunnel) | 015, 016, 017 | 11/16/20 | * | | | |
| 96 | CSO 007 Shaft at 11 th St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel) | 007 | 11/18/20 | * | | | |
| 97 | CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel) | 005 | 11/18/20 | * | | | |
| 98 | Main Pumping Station Diversions (Anacostia River Tunnel) | 009 - 012 | 11/23/20 | * | | | |
| 99 | CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel) | 009, 011a | 11/17/20 | * | | | |
| 100 | CSO 012 Diversion Facilities (Anacostia River Tunnel) | 012 | 11/17/20 | * | | | |
| 101 | Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel) | N/A | 11/20/20 | * | | | |
| 102 | Anacostia Main Interceptor Diversion Chamber | N/A | 11/20/20 | * | | | |
| 103 | Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel) | N/A | 11/20/20 | * | | | |
| 104 | Poplar Point PS Discharge Chamber | N/A | 11/20/20 | * | | | |
| 105 | Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel) | 003A | 11/20/20 | * | | | |

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 ¹ | Bolling Air Force Base, at Giavanolli and Chanute, SW | N/A | | | | | | | | | |

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|--------------------------|----|------------------------|---------------|----------|---------------|--------------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 003a | Joint Base Anacostia Bolling Macdill and Arnold Ave SW | 11/20/20 | * | | * | | * | | * | | |
| 005 | Across from Navy Yard, aligned with Parsons Ave., SE | 11/24/20 | * | | * | | * | | * | | |
| 006 ¹ | Good Hope Road and Welsh Memorial Bridge | N/A | | | | | | | | | |
| 007 | Between 11 th St. and Anacostia Bridges, SE | 11/24/20 | * | | * | | * | | * | | |
| 009 | O St. Sewage Pumping Station, SE | 11/25/20 | * | | * | | * | | * | | |
| 010 | O St. Sewage Pumping Station, SE | 11/25/20 | * | | | * | | | * | | |
| 011 | Main Sewage Pumping Station, SE | 11/25/20 | * | | | * | | | * | | |
| 011a | Main Sewage Pumping Station, SE | 11/25/20 | * | | * | | * | | * | | |
| 012 | Main Sewage Pumping Station, SE | 11/25/20 | * | | * | | * | | * | | |
| 013 | Southeast Federal Center, aligned with 4 th St. | 11/25/20 | * | | * | | * | | * | | |
| 014 | Navy Yard, aligned with 6 th St., SE | 11/25/20 | * | | * | | * | | * | | |
| 015 | Navy Yard, aligned with 9th Street, SE | 11/25/20 | * | | | * | | | * | | |
| 016 | 12th and O Streets, SE | 11/25/20 | * | | * | | * | | * | | |
| 017 | M and Water Street, SE | 11/25/20 | * | | * | | * | | * | | |
| 018 | East of Barney Circle & South of Pennsylvania Avenue Bridge, SE | 11/25/20 | * | | * | | * | | * | | |
| 019 | Adjacent to Service Drive behind swirl facility & D.C. General Hospital | 11/18/20 | * | | * | | * | | * | | |
| 019a | Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure) | 11/18/20 | * | | * | | * | | * | | |
| 020 | Rock Creek Parkway and Independence, NW | 11/24/20 | * | | * | | * | | * | | |
| 021 | Rock Creek Parkway and C St., NW | 11/24/20 | * | | | * | | | * | | |
| 022 | Rock Creek Parkway and G St., NW | 11/24/20 | * | | * | | * | | * | | |
| 024 | South of 30 th and K Streets, NW ¹ | 11/24/20 | * | | * | | * | | * | | |
| 025 | South of 31st and K Streets, NW | 11/24/20 | * | | * | | * | | * | | |
| 026 | Wisconsin Avenue and Water Street, NW | 11/24/20 | * | | * | | * | | * | | |
| 027 | 33 rd and Water Sts., NW | 11/24/20 | * | | | * | | | * | | |
| 028 | Key Bridge and Whitehurst Freeway, NW | 11/05/20 | * | | | * | | | * | | |
| 029 | Adjacent to C&O Canal, aligned with 38 th St. NW | 11/05/20 | * | | | * | | | * | | DWO observed, see page 14, section 3 |
| 031 ¹ | Rock Creek Pkwy & Pennsylvania Avenue, NW | N/A | | | | | | | | | |
| 032 | 26th and M Street, NW | 11/23/20 | * | | | * | | | * | | |
| 033 | Across street from St. Francis Jr. High and aligned with N St., NW. | 11/23/20 | * | | * | | * | | * | | |
| 034 | Just west of St. Francis Jr. High and north of N St., NW | 11/12/20 | * | | | * | | | * | | |
| 035 | P St. Bridge and Rock Creek Parkway | 11/12/20 | * | | | * | | | * | | |

| 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 | |
| 036 | 22nd Street, South of Q Street NW. | 11/24/20 | * | | * | | * | | * | | |
| 037 ¹ | Waterside Dr. and Rock Creek Parkway | N/A | | | | | | | | | |
| 038 | Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW. | 11/13/20 | * | | * | | * | | * | | |
| 039 | Connecticut Avenue Bridge and Rock Creek Parkway, NW. | 11/13/20 | * | | * | | * | | * | | |
| 040 | Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge. | 11/13/20 | * | | * | | * | | * | | |
| 041 | Beach Dr. and Ontario Pl., NW | 11/24/20 | * | | * | | * | | * | | |
| 042 | Harvard St. and Beach Dr NW. | 11/24/20 | * | | * | | * | | * | | |
| 043 | Upstream of Harvard St. and Beach Dr NW. | 11/24/20 | * | | * | | * | | * | | |
| 044 | Kenyon Street and Beach Dr., NW. | 11/24/20 | * | | * | | * | | * | | |
| 045 | North of Beach Dr. and Walbridge Pl, NW. | 11/24/20 | * | | * | | * | | * | | |
| 046 | Piney Branch Parkway and Park Road, NW. | 11/10/20 | * | | | * | | | * | | |
| 047 | Piney Branch Parkway and Ingleside Terrace | 11/10/20 | * | | * | | * | | * | | |
| 048 | South of Piney Branch Parkway and 17 th St. | 11/10/20 | * | | * | | * | | * | | |
| 049 | North of Piney Branch Parkway and 17 th St. | 11/10/20 | * | | * | | * | | * | | |
| 050 | Rock Creek Parkway and L St., NW | 11/23/20 | * | | * | | * | | * | | |
| 051 | Across Rock Creek Pkwy, aligned with Olive St., NW. | 11/23/20 | * | | * | | * | | * | | |
| 052 | Between P & Penna. Ave Bridges, aligned with O Street, NW. | 11/23/20 | * | | * | | * | | * | | |
| 053 ¹ | Q St. Bridge and Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 054 | Massachusetts Ave & Rock Creek Parkway, NW. | 11/13/20 | * | | * | | * | | * | | |
| 056 | Normanstone Dr. and Rock Creek Parkway, NW. | 11/13/20 | * | | * | | * | | * | | |
| 057 ¹ | 28th Street and Rock Creek Parkway, NW | N/A | | | | | | | | | |
| 058 ¹ | Connecticut Ave & Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 060 | North of P St. Bridge & Rock Creek Pkwy, NW | 11/24/20 | * | | * | | * | | * | | |

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 | 30 | 3 | 4 | None | - | - | - | - |
| Eastside | 1 | 2 | 4 | None | - | - | - | - |
| Poplar Point | 1 | 2 | 4 | None | - | - | - | - |
| Potomac ¹ | 30 | 4 | 5 | Screen #1 | 11/01/20 – 11/30/20 | Bent rake and scraper bar, screen is off track. | 20-675279 | Anticipated 12/31/20. The screen has been disconnected for repair. Awaiting parts from manufacturer. |
| | | | | Screen #4 | 11/14/20 – 11/30/20 | Grinding noise from gearbox, screen not running. | 21-85425 | Anticipated 12/15/2020. Awaiting the replacement of the gearbox. |
| | | | | Pump #5 | 11/01/20 – 11/30/20 | Bearing and vibration issue, pump not running. | 20-404901 | Anticipated 1/31/2021. The pump and motor have been disconnected for repair and the parts have been received. After further visual inspection, additional damage of the impeller welding was found. The impeller and rotating assembly are currently being repaired. |

Notes:

1. While two screens were periodically out of service during the month of November 2020, firm pumping capacity was maintained by keeping the screening channel open to allow flow through to the pumps. Debris was manually removed as needed.

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

| <i>Pumping Station</i> | <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed</i> ^{1,2} | <i>Work Order Number</i> | <i>Comments</i> |
|--|-----------------------|--|--------------------------|---|
| Main | 11/23/20 | Group A | 21-22871 | Add oil, grease bearings and replace packing if needed. |
| O St | 11/12/20 | Group A | 21-55470 | Add oil, grease bearings and replace packing if needed. |
| Eastside | 11/28/20 | Group A | 21-32674 | Add oil, grease bearings and replace packing if needed. |
| Poplar Point | 11/21/20 | Group A | 21-25774 | Add oil, grease bearings and replace packing if needed. |
| Potomac | 11/30/20 | Group A | 21-35145 | Add oil, grease bearings and replace packing if needed. |
| Rock Creek | 11/21/20 | Group A | 21-16581 | Add oil, grease bearings and replace packing if needed. |
| Upper Anacostia | 11/28/20 | Group A | 21-25788 | Add oil, grease bearings and replace packing if needed. |
| Earl Place | 11/28/20 | Group A | 20-677495 | Add oil, grease bearings and replace packing if needed. |
| 1 st Street Tunnel Dewatering | 11/30/20 | Group B | 21-118790 | |

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 Vector 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)¹</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 ^{1,2} | 1364.67 | 45.49 | N/A | N/A | N/A |
| O St ^{1,2} | 145.64 | 4.85 | N/A | N/A | N/A |
| Eastside | 128.13 | 4.27 | N/A | N/A | N/A |
| Poplar Point | 404.78 | 13.49 | N/A | N/A | N/A |
| Potomac | 3526.94 | 117.56 | N/A | N/A | N/A |
| Rock Creek | 128.04 | 4.27 | N/A | N/A | N/A |
| Upper Anacostia | 52.94 | 1.76 | N/A | N/A | N/A |
| Earl Place | 0.5480 | 0.018 | N/A | N/A | N/A |
| 1 st Street Tunnel Dewatering ³ | N/A | N/A | N/A | 11/1/20 | 0.12 |
| | | | | 11/3/20 | 0.02 |
| | | | | 11/6/20 | 0.04 |
| | | | | 11/12/20 | 0.30 |
| | | | | 11/14/20 | 0.03 |
| | | | | 11/28/20 | 0.22 |
| 11/30/20 | 0.12 | | | | |

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.
3. The flow meter for the pumping station was previously found to be defective and did not record discharges. As of 11/12/2020, the replacement flow meter has been installed. Prior to the installation, the flow was estimated based on pump run times and pump capacity. After the installation, flow readings are received from the flow meter.

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 | 11/17/20 | No | N/A | N/A | N/A |
| 14 - West | 11/17/20 | No | N/A | N/A | N/A |
| 15 | 11/19/20 | No | N/A | N/A | N/A |
| 15A | 11/17/20 | No | N/A | N/A | N/A |
| 16 - East | 11/17/20 | No | N/A | N/A | N/A |
| 16 - West | 11/17/20 | No | N/A | N/A | N/A |
| 34 | 11/27/20 | No | N/A | N/A | N/A |
| 35 | 11/27/20 | No | N/A | N/A | N/A |
| 52 | 11/27/20 | No | 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> |
|-------------------------------------|---------------------------|--|
| 14 (E & W) ¹ | 11/3/20 | 0 hrs. 8 mins |
| 15 | 11/12/20 | 0 hrs. 10 mins |
| 15A | None | N/A |
| 16 (E & W) ² | 11/3/20 | 0 hrs. 10 mins |
| 34 | None | N/A |
| 35 | 11/11/20 11/30/20 | 0 hrs. 49 mins 1 hr. 36 mins |
| 52 | None | N/A |
| | | |
| <i>Structures on Outfall Sewers</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</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 |

Notes:

1. On 11/03/20, Structure 14 (E & W) experienced a drop in air pressure due to a PEPCO power outage, which resulted in a dam deflation. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.
2. On 11/03/20, Structure 16 (E & W) experienced a drop in air pressure due to a PEPCO power outage, which resulted in a dam deflation. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

3. DRY WEATHER OVERFLOWS

There was one dry weather combined sewer overflow reported during November 2020.

On November 5, 2020 during the monthly inspection of CSO outfalls, our crew observed a cloudy discharge at CSO 029. They inspected the sewer from the outfall and proceeded upstream to find the source of the flow. The discharge was ground water flow from Georgetown University Hospital construction site; the flow was then re-routed. EPA was notified orally regarding this discharge, but a written report was not previously submitted because the discharge source was not sewage.

On November 6, 2020 at approximately 11:15 am, during a follow up inspection of the CSO #029, the crew found raw sewage flowing from CSO Outfall 029 into the Potomac River. They then inspected the Regulator Structure No. 47 at 3800 Reservoir Road, NW, which is located approximately a mile upstream of the outfall, to determine the cause of the discharge to the 96-inch outfall pipe. DC Water had reported that the crew did not observe any discharge to the CSO 029 discharge pipe. Upon further inquiry, the crew confirmed that they found sewage overflowing the dam in the structure that diverts sewer flow into the 21-inch sanitary sewer. As previously reported, the crew entered the sewer to conduct a more detailed assessment of the 18-inch divergent pipe that connects to the sanitary sewer and found no blockages or defects in the line that may cause an overflow. The crew next inspected the by-pass activity at the Georgetown Hospital construction site, and at approximately 11:45am, they returned to CSO 029 outfall and did not observe any further discharge flowing out of the pipe.

DC Water still estimates that 900 gallons of sanitary sewage escaped the collection system and flowed into the Potomac River. The crew also returned the following day to check the outfall and observed no discharge.

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 | 652 | 652 | 1377 | 1345 | 0 | 0 | 1377 | 1345 |
| 2 | 2792 | 2642 | 476 | 476 | 349 | 2755 | 2385 | 71 | 58 | 2826 | 2443 |
| 3 | 3687 | 187 | 0 | 0 | 0 | 3454 | 181 | 4 | 0 | 3458 | 181 |
| 4 | 3495 | 1723 | 0 | 0 | 0 | 3346 | 1517 | 0 | 0 | 3346 | 1517 |
| 5 | 4007 | 1769 | 1692 | 1692 | 1172 | 3349 | 1134 | 224 | 224 | 3573 | 1358 |
| 6 | 3316 | 2666 | 2647 | 2647 | 2004 | 1645 | 1543 | 1089 | 813 | 2734 | 2356 |
| 7 | 3785 | 43 | 41 | 41 | 27 | 2173 | 28 | 352 | 0 | 2525 | 28 |
| 8 | 2832 | 212 | 209 | 209 | 197 | 2050 | 5 | 26 | 0 | 2076 | 5 |
| Grand Total | 25363¹ | 10668¹ | 5717¹ | 5717² | 4490² | 20149² | 8138² | 1766² | 1095² | 21915² | 9233² |
| % Cleaned/Inspected to Date | | | | 100% | 77% | | | | | 86% | 87% |

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.
2. These are estimated counts from sewer maps until the existing Sewer Mobile APP for field data is updated and reprogrammed for use.

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 | 11/13/20 | Good | None | Routine Cleaning | (1) |
| Bar Rack CSO 041 | 11/24/20 | 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> | 12 |
| <i>Reason not Operating</i> | Maintenance, wind, low water levels, lightening. |
| <i># Skimmer in Fleet</i> | 3 Skimmers |
| <i># Skimmers Out of Service</i> | 3 Skimmers |
| <i>Dates</i> | B32: 11/1 - 11/30. B33 11/1 - 11/12 and 11/23 - 11/29. B34: 11/23 - 11/30 |
| <i>Reason</i> | B32: hydraulic ram leaking. B33: hydraulic ram leaking and wing screen guide worn through. B34: No. 1 screen off track. |
| <i>Plan to Restore to Service</i> | B32: waiting for parts, ETR early December. B33: returned to operations on 11/13 and 11/30. B34: waiting for parts, ETR unknown. |
| <i>Amount Material Collected</i> | 25 tons this month. Calendar year to date 190 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**

Inspector: Keith Watts

| Pumping Station | Inspector | 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) | KW | 11/29/20 | X | | 21-86388 | | |
| Bar Racks at Main Storm Pumps (CSO 011) | KW | 11/29/20 | X | | 21-86381 | | |

5.2 Rain Data

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

| Date | Brentwood Pumping Station | Bryant Street Pumping Station | Main Pumping Station | Rock Creek Pumping Station | National Airport |
|------------|---------------------------|-------------------------------|----------------------|----------------------------|------------------|
| 11/1/2020 | 0.40 | 0.42 | 0.57 | 0.47 | 0.52 |
| 11/2/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/3/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/4/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/5/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/6/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/7/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/8/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/9/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/10/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/11/2020 | 0.95 | 1.13 | 1.16 | 1.11 | 2.02 |
| 11/12/2020 | 1.60 | 1.47 | 1.82 | 1.50 | 0.89 |
| 11/13/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/14/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/15/2020 | 0.60 | 0.06 | 0.39 | 0.12 | 0.26 |
| 11/16/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/17/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/18/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/19/2020 | 0.60 | 0 | 0 | 0 | 0 |
| 11/20/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/21/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/22/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/23/2020 | 0 | 0 | 0.01 | 0 | 0.02 |
| 11/24/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/25/2020 | 0 | 0 | 0 | 0 | 0.01 |
| 11/26/2020 | 0.03 | 0.04 | 0.04 | 0.04 | 0.03 |
| 11/27/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/28/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/29/2020 | 0 | 0 | 0 | 0 | 0 |
| 11/30/2020 | 1.80 | 1.59 | 2.19 | 1.67 | 2.39 |
| TOTAL | 5.98 | 4.71 | 6.18 | 4.91 | 6.14 |

5.3 Wet Weather Overflows

Combined Sewer System Model Results are summarized below.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results

Period: October - December 2020

SCENARIO: QuarterlyReport_2020Q4 , revised Jan 19, 2021

| 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) |
|-----------------------|---|-------------------------------|-----------------------------------|--------------------------|----------------------------------|--------------------------------|------------------------------------|------------------------------------|
| Anacostia CSOs | | | | | | | | |
| 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 th Street and Ridge Place, SE | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 009 | 2nd Street, 300 feet North of N Place, SE | Metered | 1 | 0.004 | 0.50 | 0.50 | 0.50 | 0.50 |
| 010 | O Street Sewage Pumping Station, SE (pumped Overflow) | Modeled* | 3 | 14.58 | 3.50 | 1.17 | 1.50 | 0.75 |
| 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) | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 012 | North of Main Sewage Pumping Station, SE (Tiber Creek) | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 013 | 4th and N Streets, SE | Modeled | 1 | 0.22 | 1.50 | 1.50 | 1.50 | 1.50 |
| 014 | 6th and M Streets, SE | Modeled | 1 | 0.47 | 1.50 | 1.50 | 1.50 | 1.50 |
| 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 | Modeled* | 1 | 16.19 | 0.50 | 0.50 | 0.50 | 0.50 |
| 019A | Northeast Boundary - Tunnel OF | Metered | 1 | 0.32 | 0.25 | 0.25 | 0.25 | 0.25 |
| | SUBTOTAL | | | 31.79 | | | | |
| Potomac CSOs | | | | | | | | |
| 003A | JBAB Tunnel OF | Metered | 1 | 0.93 | 0.92 | 0.92 | 0.92 | 0.92 |
| 020 | 23rd Street, North of Constitution Ave, NW (Easby Point) | Modeled | 9 | 41.65 | 37.75 | 4.19 | 8.50 | 1.50 |
| 021 | Northeast of Roosevelt Bridge, NW | Modeled | 10 | 220.99 | 43.50 | 4.35 | 8.50 | 0.50 |
| 022 | 27th and K Streets, NW | Modeled | 10 | 14.26 | 48.50 | 4.85 | 10.00 | 0.25 |
| 024 | 30th and K Streets, NW | Modeled | 9 | 17.33 | 40.00 | 4.44 | 12.50 | 0.75 |
| 025 | 31st & K St NW | Modeled | 3 | 0.11 | 2.25 | 0.75 | 1.00 | 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 | 10 | 10.31 | 57.00 | 5.70 | 11.00 | 1.75 |
| 028 | 36th and M Streets, NW | Modeled | 12 | 5.76 | 134.75 | 11.23 | 27.25 | 1.75 |
| 029 | Canal Road 1000 feet east of Rock Creek, NW | Modeled | 10 | 14.35 | 61.50 | 6.15 | 10.50 | 1.75 |
| | SUBTOTAL | | | 325.68 | | | | |
| Rock Creek | | | | | | | | |
| 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 | 9 | 0.621 | 37.00 | 4.11 | 8.25 | 1.25 |
| 037 | Northwest of Belmont and Rock Creek and Potomac Parkway | separated | | | | | | |
| 038 | North of Belmont Road east of Kalorama Circle, NW | Modeled | 0 | 0.0000 | 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 | Biltmore 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 | 2 | 0.37 | 0.75 | 0.38 | 0.50 | 0.25 |
| 044 | Kenyon Street and Adams Mill Road, NW | Modeled | 1 | 0.02 | 0.25 | 0.25 | 0.25 | 0.25 |
| 045 | Adams Mill Road and Lamont Street, NW | Modeled | 3 | 0.05 | 0.75 | 0.25 | 0.25 | 0.25 |
| 046 | Park Road south of Piney Branch Parkway, NW | Modeled | 1 | 0.02 | 0.25 | 0.25 | 0.25 | 0.25 |
| 047 | Ingleside Terrace extended and Piney Branch Parkway | Modeled | 1 | 0.07 | 0.50 | 0.50 | 0.50 | 0.50 |
| 048 | Mt. Pleasant Street extended and Piney Branch Parkway | Modeled | 1 | 0.10 | 0.25 | 0.25 | 0.25 | 0.25 |
| 049 | Piney Branch and Lamont Street, NW | Modeled | 4 | 20.40 | 4.25 | 1.06 | 2.00 | 0.25 |
| 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 th St, NW | Modeled | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | SUBTOTAL | | | 21.65 | | | | |
| | TOTAL | | | 379.12 | | | | |

* Overflow flow meter out of service; model output has been used for report

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



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

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

Month: December 2020

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

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

Monthly Operations Report for Combined Sewer System
Month: December 2020
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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 ¹ | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | N/A | | | | |
| 4 ¹ | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | N/A | | | | |
| 5 ¹ | Poplar Point Pumping Station | 004 | N/A | | | | |
| 6 | Chicago Street and Railroad Ave, SE | 005 | 12/21/20 | * | | | |
| 7 | W Street and Railroad Ave, SE | 005 | 12/21/20 | * | | | |
| 8 ¹ | Good Hope Rd, west of Nichols Ave, SE | 006 | N/A | | | | |
| 9 | 13 th Street and Ridge Place, SE (Diversion Structure) | 007 | 12/21/20 | * | | | |
| 9a | 13 th Street and Ridge Place, SE (Regulator Structure) | 007 | 12/21/20 | * | | | |
| 9b | 11 th Street Bridge and DC 295 SB (CSO-007 Diversion Chamber) | 007 | 12/18/20 | * | | | |
| 11 | "O" Street Pumping Station | 011(a) | 12/23/20 | * | | | |
| 12 | Storm Pump Discharge at Main Pumping Station | 011 | 12/22/20 | * | | | |
| 13 | 2 nd Street, 300 ft. north of N Place, SE | 009 | 12/15/20 | * | | | |
| 14 | 2 nd Street, 250 ft. north of N Place, SE | 011(a) | 12/15/20 | * | | | |
| 15 | South Capitol and E Streets | 010 | 12/15/20 | * | | | |
| 15a | Half and L Streets, SE | 010 | 12/15/20 | * | | | |
| 15b | South Capitol and I Streets | 010 | 12/02/20 | * | | | |
| 15c | South Capitol and I Streets | 010 | 12/02/20 | * | | | |

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

| 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 | 12/07/20 | * | | | |
| 36b | 19 th and L Streets, NW | 022, 034 | 12/04/20 | * | | | |
| 36d | 17 th and L Streets, NW | 022, 034 | 12/04/20 | * | | | |
| 36g | 18 th and M Streets, NW | 022, 034 | 12/04/20 | * | | | |
| 36h | 18 th and M Streets, NW | 022, 034 | 12/04/20 | * | | | |
| 37 | 27 th and Eye Streets, NW | 022 | 12/07/20 | * | | | |
| 38 | 29 th and K Streets, NW | 024 | 12/04/20 | * | | | |
| 38a | 30 th Street, south of K Street, NW | 024 | 12/04/20 | * | | | |
| 39a | 30 th and K Streets, NW | 024 | 12/04/20 | * | | | |
| 39b | 30 th and K Streets, NW | 024 | 12/04/20 | * | | | |
| 41b | 31 st and K Streets, NW | 025 | 12/04/20 | * | | | |
| 41c | 31 st and K Streets, NW | 025 | 12/04/20 | * | | | |
| 42 | Wisconsin Ave and K Street, NW | 026 | 12/04/20 | * | | | |
| 43 | Potomac and Water Streets, NW | 027 | 12/04/20 | * | | | |
| 43a | Potomac and Water Streets, NW | 027 | 12/04/20 | * | | | |
| 44 | Water Street, west of Potomac St, NW | 027 | 12/04/20 | * | | | |
| 45 | 36 th and M Streets, NW | 028 | 12/02/20 | * | | | |
| 46 | Canal Rd, 1000ft. east of Foxhall Rd, NW | 029 | 12/02/20 | * | | | |
| 47 | 38 th Street and Reservoir Road, NW | 029 | 12/02/20 | * | | | |
| 47a | 37 th and T Streets, NW | 029 | 12/02/20 | * | | | |
| 47b | 37 th and T Streets, NW | 029 | 12/02/20 | * | | | |
| 47c | 38 th and W Streets, NW | 029 | 12/02/20 | * | | | |
| 49 ^l | Pennsylvania Ave, east side of Rock Creek, NW | 031 | N/A | | | | |
| 50 | 26 and M Streets, NW | 032 | 12/17/20 | * | | | |
| 51 | N Street Extended, west of 25 th Street, NW | 033 | 12/21/20 | * | | | |
| 52 | 22 nd Street between M and N Streets, NW | 034 | 12/17/20 | * | | | |
| 52a | N Street between 22 nd and 23 rd Streets, NW | 034 | 12/17/20 | * | | | |
| 53 | 22 nd and M Streets, NW | 022, 034 | 12/17/20 | * | | | |
| 53a | 22 nd and M Streets, NW | 022, 034 | 12/17/20 | * | | | |
| 53b | L Street between 21 st Street and New Hampshire Ave, NW | 022, 034 | 12/08/20 | * | | | |
| 53c | L and 22 nd Streets, NW | 022 | 12/08/20 | * | | | |
| 54 | 23 rd and O Streets, NW | 034 | 12/08/20 | * | | | |
| 55 | 22 nd Street, south of Q Street, NW | 035 | 12/08/20 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 55a | 22 nd Street, south of Q Street, NW | 035 | 12/08/20 | * | | | |
| 56 | 23 rd and Massachusetts Ave, NW | 036 | 12/08/20 | * | | | |
| 57 | 23 rd Street, south of Q Street, NW | 036 | 12/08/20 | * | | | |
| 58 ^l | Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW | 037 | N/A | | | | |
| 59 | North of Belmont Rd, east of Kalorama Cir, NW | 038 | 12/02/20 | * | | | |
| 60 | Connecticut Ave, east of Rock Creek, NW | 039 | 12/02/20 | * | | | |
| 61 | Biltmore St, Extended, east of Rock Creek, NW | 040 | 12/02/20 | * | | | |
| 62 | Ontario Rd, Extended, and Rock Creek Pkwy, NW | 041 | 12/09/20 | * | | | |
| 63 | Harvard Street and Rock Creek Parkway, NW | 042 | 12/09/20 | * | | | |
| 64 | Adams Mill Road, south of Irving Street, NW | 043 | 12/09/20 | * | | | |
| 65 | Kenyon Street and Adams Mill Road, NW | 044 | 12/09/20 | * | | | |
| 65a | Kenyon Street and Adams Mill Road, NW | 044 | 12/09/20 | * | | | |
| 66 | Adams Mill Road and Lamont Street, NW | 045 | 12/09/20 | * | | | |
| 67 | Park Rd , south of Piney Branch Pkwy, NW | 046 | 12/09/20 | * | | | |
| 68 | Ingleside Terrance, Extended and Piney Branch Parkway, NW | 047 | 12/09/20 | * | | | |
| 69 | Mt. Pleasant Street, Extended and Piney Branch Parkway, NW | 048 | 12/09/20 | * | | | |
| 70 | Piney Branch Parkway, west of 16 th Street, NW | 049 | 12/09/20 | * | | | |
| 70i | 5 th and Quackenbos Streets, NW | 049 | 12/11/20 | * | | | |
| 71 | 28 th Street, west of Rock Creek Parkway, NW | 050 | 12/09/20 | * | | | |
| 72 | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 12/08/20 | * | | | |
| 72a | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 12/08/20 | * | | | |
| 73 | O Street Extended and Rock Creek Parkway, NW | 052 | 12/08/20 | * | | | |
| 74 ^l | Q Street, west of Rock Creek, NW | 053 | N/A | | | | |
| 75 | West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW | 054 | 12/10/20 | * | | | |
| 77 | Normanstone Dr Extended, west of Rock Creek, NW | 056 | 12/10/20 | * | | | |
| 77a | Normanstone Dr and Normanstone Lane, NW | 056 | 12/10/20 | * | | | |
| 78 ^l | 28th Street Extended, west of Rock Creek, NW | 057 | N/A | | | | |
| 79 ^l | Connecticut Ave and Rock Creek Parkway, NW | 058 | N/A | | | | |
| 84 | 26 th and P Streets, NW | 060 | 12/08/20 | * | | | |
| 84a | 26 th and P Streets, NW | 060 | 12/08/20 | * | | | |
| 86 | Diversion Chamber and Vortex Drop at First and Channing St, NW (First St Tunnel) | 019 | 12/21/20 | * | | | |
| 88 | Flagler and Adams St. NW (First St Tunnel) | 019 | 12/21/20 | * | | | |

| 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 | 12/21/20 | * | | | |
| 90 | First and V St, NW (First St Tunnel) | 019 | 12/21/20 | * | | | |
| 91 | First and V St, NW (First St Tunnel) | 019 | 12/21/20 | * | | | |
| 92 | CSO 019 Diversion Near Eastside PS (Anacostia River Tunnel) | 019 | 12/23/20 | * | | | |
| 93 | CSO 018 Diversion Near Barney Circle (Anacostia River Tunnel) | 018 | 12/23/20 | * | | | |
| 95 | M Street Approach Channel M and Water St SE (Anacostia River Tunnel) | 015, 016, 017 | 12/14/20 | * | | | |
| 96 | CSO 007 Shaft at 11 th St Bridge and DC I-295 SB Diversion Facilities (Anacostia River Tunnel) | 007 | 12/18/20 | * | | | |
| 97 | CSO 005 Diversion at Chicago St Trunk Sewer, I295 SB (Anacostia River Tunnel) | 005 | 12/18/20 | * | | | |
| 98 | Main Pumping Station Diversions (Anacostia River Tunnel) | 009 - 012 | 12/23/20 | * | | | |
| 99 | CSO 009 and 011a Diversion Facilities (Anacostia River Tunnel) | 009, 011a | 12/15/20 | * | | | |
| 100 | CSO 012 Diversion Facilities (Anacostia River Tunnel) | 012 | 12/15/20 | * | | | |
| 101 | Main Outfall Sewer Diversion Chamber (Anacostia River Tunnel) | N/A | 12/18/20 | * | | | |
| 102 | Anacostia Main Interceptor Diversion Chamber | N/A | 12/18/20 | * | | | |
| 103 | Poplar Point PS Emergency Overflow Chamber (Anacostia River Tunnel) | N/A | 12/18/20 | * | | | |
| 104 | Poplar Point PS Discharge Chamber | N/A | 12/18/20 | * | | | |
| 105 | Potomac Outfall Sewer Diversion Chamber (Anacostia River Tunnel) | 003A | 12/18/20 | * | | | |

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 | |
| | | | | | | | | | | | |

| 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 ¹ | Bolling Air Force Base, at Giavanolli and Chanute, SW | N/A | | | | | | | | | |
| 003a | Joint Base Anacostia Bolling Macdill and Arnold Ave SW | 12/18/20 | * | | * | | * | | * | | |
| 005 | Across from Navy Yard, aligned with Parsons Ave., SE | 12/22/20 | * | | * | | * | | * | | |
| 006 ¹ | Good Hope Road and Welsh Memorial Bridge | N/A | | | | | | | | | |
| 007 | Between 11 th St. and Anacostia Bridges, SE | 12/22/20 | * | | * | | * | | * | | |
| 009 | O St. Sewage Pumping Station, SE | 12/22/20 | * | | * | | * | | * | | |
| 010 | O St. Sewage Pumping Station, SE | 12/22/20 | * | | | * | | | * | | |
| 011 | Main Sewage Pumping Station, SE | 12/22/20 | * | | | * | | | * | | |
| 011a | Main Sewage Pumping Station, SE | 12/22/20 | * | | * | | * | | * | | |
| 012 | Main Sewage Pumping Station, SE | 12/22/20 | * | | * | | * | | * | | |
| 013 | Southeast Federal Center, aligned with 4 th St. | 12/22/20 | * | | * | | * | | * | | |
| 014 | Navy Yard, aligned with 6 th St., SE | 12/22/20 | * | | * | | * | | * | | |
| 015 | Navy Yard, aligned with 9th Street, SE | 12/22/20 | * | | | * | | | * | | |
| 016 | 12th and O Streets, SE | 12/22/20 | * | | * | | * | | * | | |
| 017 | M and Water Street, SE | 12/22/20 | * | | * | | * | | * | | |
| 018 | East of Barney Circle & South of Pennsylvania Avenue Bridge, SE | 12/22/20 | * | | * | | * | | * | | |
| 019 | Adjacent to Service Drive behind swirl facility & D.C. General Hospital | 12/23/20 | * | | * | | * | | * | | |
| 019a | Adjacent to Service Drive behind swirl facility & D.C. General Hospital (Tunnel Overflow Structure) | 12/23/20 | * | | * | | * | | * | | |
| 020 | Rock Creek Parkway and Independence, NW | 12/03/20 | * | | * | | * | | * | | |
| 021 | Rock Creek Parkway and C St., NW | 12/03/20 | * | | | * | | | * | | |
| 022 | Rock Creek Parkway and G St., NW | 12/03/20 | * | | * | | * | | * | | |
| 024 | South of 30 th and K Streets, NW ¹ | 12/03/20 | * | | * | | * | | * | | |
| 025 | South of 31st and K Streets, NW | 12/03/20 | * | | * | | * | | * | | |
| 026 | Wisconsin Avenue and Water Street, NW | 12/03/20 | * | | * | | * | | * | | |
| 027 | 33 rd and Water Sts., NW | 12/03/20 | * | | | * | | | * | | |
| 028 | Key Bridge and Whitehurst Freeway, NW | 12/03/20 | * | | | * | | | * | | |
| 029 | Adjacent to C&O Canal, aligned with 38 th St. NW | 12/03/20 | * | | | * | | | * | | |
| 031 ¹ | Rock Creek Pkwy & Pennsylvania Avenue, NW | N/A | | | | | | | | | |
| 032 | 26th and M Street, NW | 12/17/20 | * | | | * | | | * | | |
| 033 | Across street from St. Francis Jr. High and aligned with N St., NW. | 12/21/20 | * | | * | | * | | * | | |
| 034 | Just west of St. Francis Jr. High and north of N St., NW | 12/08/20 | * | | | * | | | * | | |

| 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 | |
| 035 | P St. Bridge and Rock Creek Parkway | 12/08/20 | * | | | * | | | * | | |
| 036 | 22nd Street, South of Q Street NW. | 12/10/20 | * | | * | | * | | * | | |
| 037 ¹ | Waterside Dr. and Rock Creek Parkway | N/A | | | | | | | | | |
| 038 | Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW. | 12/02/20 | * | | * | | * | | * | | |
| 039 | Connecticut Avenue Bridge and Rock Creek Parkway, NW. | 12/02/20 | * | | * | | * | | * | | |
| 040 | Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge. | 12/02/20 | * | | * | | * | | * | | |
| 041 | Beach Dr. and Ontario Pl., NW | 12/10/20 | * | | * | | * | | * | | |
| 042 | Harvard St. and Beach Dr NW. | 12/10/20 | * | | * | | * | | * | | |
| 043 | Upstream of Harvard St. and Beach Dr NW. | 12/10/20 | * | | * | | * | | * | | |
| 044 | Kenyon Street and Beach Dr., NW. | 12/10/20 | * | | * | | * | | * | | |
| 045 | North of Beach Dr. and Walbridge Pl, NW. | 12/10/20 | * | | * | | * | | * | | |
| 046 | Piney Branch Parkway and Park Road, NW. | 12/09/20 | * | | | * | | | * | | |
| 047 | Piney Branch Parkway and Ingleside Terrace | 12/09/20 | * | | * | | * | | * | | |
| 048 | South of Piney Branch Parkway and 17 th St. | 12/09/20 | * | | * | | * | | * | | |
| 049 | North of Piney Branch Parkway and 17 th St. | 12/09/20 | * | | * | | * | | * | | |
| 050 | Rock Creek Parkway and L St., NW | 12/09/20 | * | | * | | * | | * | | |
| 051 | Across Rock Creek Pkwy, aligned with Olive St., NW. | 12/10/20 | * | | * | | * | | * | | |
| 052 | Between P & Penna. Ave Bridges, aligned with O Street, NW. | 12/10/20 | * | | * | | * | | * | | |
| 053 ¹ | Q St. Bridge and Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 054 | Massachusetts Ave & Rock Creek Parkway, NW. | 12/10/20 | * | | * | | * | | * | | |
| 056 | Normanstone Dr. and Rock Creek Parkway, NW. | 12/10/20 | * | | * | | * | | * | | |
| 057 ¹ | 28th Street and Rock Creek Parkway, NW | N/A | | | | | | | | | |
| 058 ¹ | Connecticut Ave & Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 060 | North of P St. Bridge & Rock Creek Pkwy, NW | 12/10/20 | * | | * | | * | | * | | |

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 | Screen #1 | 12/01/20 – 12/31/20 | Bent rake and scraper bar, screen is off track. | 20-675279 | Anticipated 2/28/21. The screen has been disconnected for repair. Awaiting parts from manufacturer. |
| | | | | Screen #2 | 12/01/20 – 12/31/20 | Broken rake, screen is not running | 21-121831 | Anticipated 1/31/2021. Awaiting the parts for rake and gearbox. |
| | | | | Screen #4 | 12/01/20 – 12/11/20 | Grinding noise from gearbox, screen not running. | 21-85425 | Returned to service 12/11/2020. Gearbox was repaired. |
| | | | | Pump #5 | 12/01/20 – 12/31/20 | Bearing and vibration issue, pump not running. | 20-404901 | Anticipated 1/31/2021. The pump and motor have been disconnected for repair and the parts have been received. After further visual inspection, additional damage of the impeller welding was found. The impeller and rotating assembly are currently being repaired. |

Notes:

1. While three screens were periodically out of service during the month of December 2020, firm pumping capacity was maintained by keeping the screening channel open to allow flow through to the pumps. Debris was manually removed as needed.

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

| <i>Pumping Station</i> | <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed</i> ^{1,2} | <i>Work Order Number</i> | <i>Comments</i> |
|--|-----------------------|--|--------------------------|---|
| Main | 12/23/20 | Group A | 21-86610 | Add oil, grease bearings and replace packing if needed. |
| O St | 12/14/20 | Group A | 21-112842 | Add oil, grease bearings and replace packing if needed. |
| Eastside | 12/26/20 | Group A | 21-100558 | Add oil, grease bearings and replace packing if needed. |
| Poplar Point | 12/26/20 | Group A | 21-89548 | Add oil, grease bearings and replace packing if needed. |
| Potomac | 12/30/20 | Group A | 21-105481 | Add oil, grease bearings and replace packing if needed. |
| Rock Creek | 12/26/20 | Group A | 21-82506 | Add oil, grease bearings and replace packing if needed. |
| Upper Anacostia | 12/26/20 | Group A | 21-89858 | Add oil, grease bearings and replace packing if needed. |
| Earl Place | 12/26/20 | Group A | 21-63231 | Add oil, grease bearings and replace packing if needed. |
| 1 st Street Tunnel Dewatering | 12/27/20 | Group B | 21-170167 | |

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 Vector 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)¹</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 ^{1,2} | 1780.49 | 57.44 | N/A | N/A | N/A |
| O St ^{1,2} | 131.90 | 4.25 | N/A | N/A | N/A |
| Eastside | 144.50 | 4.66 | N/A | N/A | N/A |
| Poplar Point | 445.06 | 14.36 | N/A | N/A | N/A |
| Potomac | 3496.67 | 112.80 | N/A | N/A | N/A |
| Rock Creek | 128.08 | 4.13 | N/A | N/A | N/A |
| Upper Anacostia | 54.62 | 1.76 | N/A | N/A | N/A |
| Earl Place | 0.628 | 0.020 | N/A | N/A | N/A |
| 1 st Street Tunnel Dewatering | N/A | N/A | N/A | 12/12/20 | 0.08 |
| | | | | 12/15/20 | 0.004 |
| | | | | 12/16/20 | 0.04 |
| | | | | 12/24/20 | 0.21 |
| | | | | 12/27/20 | 0.21 |

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 | 12/15/20 | No | N/A | N/A | N/A |
| 14 - West | 12/15/20 | No | N/A | N/A | N/A |
| 15 | 12/15/20 | No | N/A | N/A | N/A |
| 15A | 12/15/20 | No | N/A | N/A | N/A |
| 16 - East | 12/15/20 | No | N/A | N/A | N/A |
| 16 - West | 12/15/20 | No | N/A | N/A | N/A |
| 34 | 12/15/20 | No | N/A | N/A | N/A |
| 35 | 12/15/20 | No | N/A | N/A | N/A |
| 52 | 12/17/20 | No | 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> |
|-------------------------------------|---------------------------|--|
| 14 (E & W) | <i>None</i> | <i>N/A</i> |
| 15 | <i>None</i> | <i>N/A</i> |
| 15A | <i>None</i> | <i>N/A</i> |
| 16 (E & W) ¹ | <i>12/28/20</i> | <i>1 hr. 44 mins</i> |
| 34 | <i>None</i> | <i>N/A</i> |
| 35 | <i>12/24/20</i> | <i>0 hrs. 59 mins</i> |
| 52 | <i>None</i> | <i>N/A</i> |
| | | |
| <i>Structures on Outfall Sewers</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</i> |
| Outfall Structure 1 | <i>None</i> | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 1A | <i>None</i> | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 2 | <i>None</i> | <i>N/A</i> |
| <i>Outfall Sewer Control Gates</i> | <i>Operational Status</i> | <i>Position</i> |
| Outfall Sewer Control Gate No.1 | <i>Operational</i> | <i>Open</i> |
| Outfall Sewer Control Gate No.2 | <i>Operational</i> | This structure has been bulk headed. Overflows are no longer possible |
| Outfall Sewer Control Gate No.2 | <i>Operational</i> | This structure has been bulk headed. Overflows are no longer possible |

Notes:

1. On 12/28/20, Structure 16 (E & W) experienced a high torque alarm on the blower which resulted in a deflation. Electrical technicians were dispatched to investigate equipment and the blower unit was reset. This was not an overflow to the river as the upstream levels were significantly lower than the low-level threshold.

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow reported during December 2020.

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 | 652 | 652 | 1377 | 1345 | 0 | 0 | 1377 | 1345 |
| 2 | 2792 | 2642 | 476 | 476 | 476 | 2826 | 2443 | 177 | 174 | 3003 | 2617 |
| 3 | 3687 | 187 | 0 | 0 | 0 | 3458 | 181 | 0 | 0 | 3458 | 181 |
| 4 | 3495 | 1723 | 0 | 0 | 0 | 3346 | 1517 | 0 | 0 | 3346 | 1517 |
| 5 | 4007 | 1769 | 1692 | 1692 | 1692 | 3573 | 1358 | 557 | 555 | 4130 | 1913 |
| 6 | 3316 | 2666 | 2647 | 2647 | 2647 | 2734 | 2356 | 845 | 798 | 3579 | 3154 |
| 7 | 3785 | 43 | 41 | 41 | 41 | 2525 | 28 | 292 | 14 | 2817 | 42 |
| 8 | 2832 | 212 | 209 | 209 | 209 | 2076 | 5 | 407 | 16 | 2483 | 21 |
| Grand Total | 25363¹ | 10668¹ | 5717¹ | 5717² | 5717² | 21915² | 9233² | 2278² | 1557² | 24193² | 10790² |
| % Cleaned/Inspected to Date | | | | 100% | 100% | | | | | 95% | 101% |

Notes:

1. The number of catch basins in our service area changes with the ongoing connections and abandonments to the sewer infrastructure.
2. These are estimated counts from sewer maps until the existing Sewer Mobile APP for field data is updated and reprogrammed for use.

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 | 12/02/20 | Good | None | Routine Cleaning | (1) |
| Bar Rack CSO 041 | 12/10/20 | 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> | 22 |
| <i>Days not Operating</i> | 9 |
| <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: 12/1 - 12/31 |
| <i>Reason</i> | B34: No. 1 screen off track. |
| <i>Plan to Restore to Service</i> | B34: waiting for parts, ETR unknown. |
| <i>Amount Material Collected</i> | 45 tons this month. Calendar year to date 235 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**

Inspector: Keith Watts

| Pumping Station | Inspector | 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) | KW | 12/28/20 | X | | 21-141787 | | |
| Bar Racks at Main Storm Pumps (CSO 011) | KW | 12/28/20 | X | | 21-141780 | | |

5.2 Rain Data

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

| Date | Brentwood Pumping Station | Bryant Street Pumping Station | Main Pumping Station | Rock Creek Pumping Station | National Airport |
|------------|---------------------------|-------------------------------|----------------------|----------------------------|------------------|
| 12/1/2020 | 0.01 | 0 | 0.03 | 0.01 | 0.02 |
| 12/2/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/3/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/4/2020 | 0.27 | 0.26 | 0.39 | 0.30 | 0.42 |
| 12/5/2020 | 0.86 | 0.74 | 0.81 | 0.89 | 0.82 |
| 12/6/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/7/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/8/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/9/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/10/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/11/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/12/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/13/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/14/2020 | 0.99 | 0.94 | 1.05 | 1.01 | 1.06 |
| 12/15/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/16/2020 | 0.81 | 0.96 | 1.16 | 1.15 | 1.11 |
| 12/17/2020 | 0 | 0 | 0.02 | 0.02 | 0.01 |
| 12/18/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/19/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/20/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/21/2020 | 0 | 0.01 | 0.01 | 0.01 | 0.03 |
| 12/22/2020 | 0 | 0 | 0 | 0 | 0.01 |
| 12/23/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/24/2020 | 0.99 | 1.25 | 1.37 | 1.37 | 1.30 |
| 12/25/2020 | 0.22 | 0.20 | 0.20 | 0.27 | 0.18 |
| 12/26/2020 | 0.02 | 0.02 | 0 | 0.03 | 0 |
| 12/27/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/28/2020 | 0 | 0 | 0 | 0 | 0 |
| 12/29/2020 | 0 | 0 | 0 | 0 | not available |
| 12/30/2020 | 0 | 0 | 0 | 0 | not available |
| 12/31/2020 | 0 | 0 | 0 | 0 | not available |
| TOTAL | 4.17 | 4.38 | 5.04 | 5.06 | 4.96 |

5.3 Wet Weather Overflows

Combined Sewer System Model Results are summarized below.

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results

Period: October - December 2020

SCENARIO: QuarterlyReport_2020Q4 , revised Jan 19, 2021

| 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) |
|-----------------------|---|-------------------------------|-----------------------------------|--------------------------|----------------------------------|--------------------------------|------------------------------------|------------------------------------|
| Anacostia CSOs | | | | | | | | |
| 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 th Street and Ridge Place, SE | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 009 | 2nd Street, 300 feet North of N Place, SE | Metered | 1 | 0.004 | 0.50 | 0.50 | 0.50 | 0.50 |
| 010 | O Street Sewage Pumping Station, SE (pumped Overflow) | Modeled* | 3 | 14.58 | 3.50 | 1.17 | 1.50 | 0.75 |
| 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) | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 012 | North of Main Sewage Pumping Station, SE (Tiber Creek) | Modeled* | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 013 | 4th and N Streets, SE | Modeled | 1 | 0.22 | 1.50 | 1.50 | 1.50 | 1.50 |
| 014 | 6th and M Streets, SE | Modeled | 1 | 0.47 | 1.50 | 1.50 | 1.50 | 1.50 |
| 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 | Modeled* | 1 | 16.19 | 0.50 | 0.50 | 0.50 | 0.50 |
| 019A | Northeast Boundary - Tunnel OF | Metered | 1 | 0.32 | 0.25 | 0.25 | 0.25 | 0.25 |
| | SUBTOTAL | | | 31.79 | | | | |
| Potomac CSOs | | | | | | | | |
| 003A | JBAB Tunnel OF | Metered | 1 | 0.93 | 0.92 | 0.92 | 0.92 | 0.92 |
| 020 | 23rd Street, North of Constitution Ave, NW (Easby Point) | Modeled | 9 | 41.65 | 37.75 | 4.19 | 8.50 | 1.50 |
| 021 | Northeast of Roosevelt Bridge, NW | Modeled | 10 | 220.99 | 43.50 | 4.35 | 8.50 | 0.50 |
| 022 | 27th and K Streets, NW | Modeled | 10 | 14.26 | 48.50 | 4.85 | 10.00 | 0.25 |
| 024 | 30th and K Streets, NW | Modeled | 9 | 17.33 | 40.00 | 4.44 | 12.50 | 0.75 |
| 025 | 31st & K St NW | Modeled | 3 | 0.11 | 2.25 | 0.75 | 1.00 | 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 | 10 | 10.31 | 57.00 | 5.70 | 11.00 | 1.75 |
| 028 | 36th and M Streets, NW | Modeled | 12 | 5.76 | 134.75 | 11.23 | 27.25 | 1.75 |
| 029 | Canal Road 1000 feet east of Rock Creek, NW | Modeled | 10 | 14.35 | 61.50 | 6.15 | 10.50 | 1.75 |
| | SUBTOTAL | | | 325.68 | | | | |
| Rock Creek | | | | | | | | |
| 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 | 9 | 0.621 | 37.00 | 4.11 | 8.25 | 1.25 |
| 037 | Northwest of Belmont and Rock Creek and Potomac Parkway | separated | | | | | | |
| 038 | North of Belmont Road east of Kalorama Circle, NW | Modeled | 0 | 0.0000 | 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 | Biltmore 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 | 2 | 0.37 | 0.75 | 0.38 | 0.50 | 0.25 |
| 044 | Kenyon Street and Adams Mill Road, NW | Modeled | 1 | 0.02 | 0.25 | 0.25 | 0.25 | 0.25 |
| 045 | Adams Mill Road and Lamont Street, NW | Modeled | 3 | 0.05 | 0.75 | 0.25 | 0.25 | 0.25 |
| 046 | Park Road south of Piney Branch Parkway, NW | Modeled | 1 | 0.02 | 0.25 | 0.25 | 0.25 | 0.25 |
| 047 | Ingleside Terrace extended and Piney Branch Parkway | Modeled | 1 | 0.07 | 0.50 | 0.50 | 0.50 | 0.50 |
| 048 | Mt. Pleasant Street extended and Piney Branch Parkway | Modeled | 1 | 0.10 | 0.25 | 0.25 | 0.25 | 0.25 |
| 049 | Piney Branch and Lamont Street, NW | Modeled | 4 | 20.40 | 4.25 | 1.06 | 2.00 | 0.25 |
| 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 th St, NW | Modeled | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | SUBTOTAL | | | 21.65 | | | | |
| | TOTAL | | | 379.12 | | | | |

* Overflow flow meter out of service; model output has been used for report

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