QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

SECOND QUARTER, 2005

Prepared By:

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

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

Monthly Operations Report For *Combined Sewer System*

Month: April, 2005

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

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

Monthly Operations Report for Combined Sewer System
Month: Aprily, 2005

Table of Contents

1. INTRODUCTION

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

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

2. OPERATION AND MAINTENACE

2.1 Regulators

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

Table 2-1
Regulator Structures

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/07/05	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/07/05	*			
5	Poplar Point Pumping Station	004	04/08/05	*			
6	Chicago Street and Railroad Ave, SE	005	04/08/05		*	Build up of sticks from rainfall, causing the flow to backup at the dam and overflow into the river.	Clean the line and remove the sticks.
7	W Street. and Railroad Ave, SE	005	04/08/05	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	04/01/05	*			
9	13th Street and Ridge Place, SE	007	04/05/05	*			
11	"O" Street Pumping Station	011(a)	04/21/05	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/21/05	*			
13	2nd Street, 300 ft. north of N Place, SE	009	04/05/05	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	04/14/05	*			
15	South Capitol and E Streets	010	04/14/05	*			
15a	Half and L Streets, SE	010	04/14/05	*			
15b	South Capitol and I Streets	010	04/26/05	*			
15c	South Capitol and I Streets	010	04/26/05	*			
16	North of Main Sewage Pumping Station	012	04/14/05	*			
17	4th and N Streets, SE, Both Extended	013	04/25/05	*			
17a	K Street between 6th Street and 7th Street, SE	013	04/26/05	*			
18	6th and M Streets, SE	014	04/05/05	*			
19	9th and M Streets, SE	015	04/05/05	*			
19a	9th and M Streets, SE	015	04/05/05	*			
20	12th and M Streets, SE	016	04/05/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
20a	12th and M Streets, SE	016	04/05/05	*			
21	14th and M Streets, SE	017	04/21/05	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	04/19/05	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	04/19/05	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	04/19/05	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/01/05	*			
22e	14th Street and Kentucky Ave, SE	018	04/01/05	*			
23	Independence Ave, 21st Street, SE, Extended	019	04/23/05	*			
24a	East Capitol St, west of RFK stadium	019	04/23/05	*			
28	21st and Constitution Ave, NW	020	04/26/05	*			
29	22nd Street, between Constitution Ave and C St, NW	020	04/26/05	*			
30	17th and D Streets, NW	020	04/11/05	*			
31	15th Street and Pennsylvania Ave, NW	020	04/11/05	*			
33	10th and F Streets, NW	020	04/11/05	*			
34	23rd Street, north of Constitution Ave, NW	020	04/26/05	*			
34a	23rd Street near C Street, NW	020	04/26/05	*			
35	Northeast of Roosevelt Bridge, NW	021	04/27/05	*			
36	27th and I Streets, NW	022	04/19/05	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/19/05	*			
36b	19th and L Streets, NW	022, 034	04/15/05	*			
36d	17th and L Streets, NW	022, 034	04/15/05	*			
36g	18th and M Streets, NW	022, 034	04/15/05	*			
36h	18th and M Streets, NW	022, 034	04/15/05	*			
37	27th and Eye Streets, NW	022	04/19/05	*			
38	29th and K Streets, NW	024	04/08/05	*			
38a	30th Street, south of K Street, NW	024	04/15/05	*			
39a	30th and K Streets, NW	024	04/15/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
39b	30th and K Streets, NW	024	04/15/05	*			
41b	31st and K Streets, NW	025	04/15/05	*			
41c	31st and K Streets, NW	025	04/15/05	*			
42	Wisconsin Ave and K Street, NW	026	04/15/05	*			
43	Potomac and Water Streets, NW	027	04/08/05	*			
43a	Potomac and Water Streets, NW	027	04/08/'05	*			
44	Water Street, west of Potomac St, NW	027	04/08/05	*			
45	36th and M Streets, NW	028	04/15/05	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/01/05	*			
47	38th Street and Reservoir Road, NW	029	04/01/05	*			
47a	37th and T Streets, NW	029	04/01/05	*			
47b	37th and T Streets, NW	029	04/01/05	*			
47c	38th and W Streets, NW	029	04/01/05	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	04/11/05	*			
50	26 and M Streets, NW	032	04/11/05	*			
51	N Street Extended, west of 25th Street, NW	033	04/11/05		*	Build up of grease clogged the 10 inches diversion connection causing the overflow to backup at the dam and overflow into the river.	Unclogged the 10 inches diversion connection at structure #51.
52	22nd Street between M and N Streets, NW	034	04/27/04	*			
52a	N Street between 22nd and 23rd Streets, NW	034	04/26/05	*			
53	22nd and M Streets, NW	022, 034	04/26/05	*			
53a	22nd and M Streets, NW	022, 034	04/26/05	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	04/26/05	*			
53c	L and 22nd Streets, NW	022	04/26/05	*			
54	23rd and O Streets, NW	034	04/27/05	*			
55	22nd Street, south of Q Street, NW	035	04/18/05	*			
55a	22nd Street, south of Q Street, NW	035	04/18/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
56	23rd and Massachusetts Ave, NW	036	04/18/05	*			
57	23rd Street, south of Q Street, NW	036	04/18/05	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	04/19/05	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	04/19/05	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/08/05	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/08/05	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/08/05	*			
63	Harvard Street and Rock Creek Parkway, NW	042	04/08/05	*			
64	Adams Mill Road, south of Irving Street, NW	043	04/12/05	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/12/05	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/12/05	*			
66	Adams Mill Road and Lamont Street, NW	045	04/12/05	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	04/12/05	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	04/12/05	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/12/05	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	04/12/05	*			
70i	5th and Quackenbos Streets, NW	049	04/08/05	*			
71	28th Street, west of Rock Creek Parkway, NW	050	04/19/05	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/18/05	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/18/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
73	O Street Extended and Rock Creek Parkway, NW	052	04/18/05	*			
74	Q Street, west of Rock Creek, NW	053	04/18/05	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	04/07/05	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	04/07/05	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	04/07/05	*			
78	28th Street Extended, west of Rock Creek, NW	057	04/07/05	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	04/12/05	*			
84	26th and P Streets, NW	060	04/18/05	*			
84a	26th and P Streets, NW	060	04/18/05	*			

Notes:

1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

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

Table 2 - Outfalls and Tide Gates

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	04/07/05	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	04/08/05	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	04/29/05	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	04/29/05	*		*		*		*		
009	O St. Sewage Pumping Station, SE	04/29/05	*		*		*		*		
010	O St. Sewage Pumping Station, SE	04/29/05	*			*			*		
011	Main Sewage Pumping Station, SE	04/29/05	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/29/05	*		*		*		*		
012	Main Sewage Pumping Station, SE	04/29/05	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	04/25/05	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	04/21/05	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/21/05	*			*			*		
016	12th and O Streets, SE	04/21/05	*		*		*		*		
017	M and Water Street, SE	04/21/05	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	04/21/05	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	04/25/05	*			*			*		
020	Rock Creek Parkway and Independence, NW	04/29/05	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/29/05	*			*			*		

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	
022	Rock Creek Parkway and G St., NW	04/28/05	*		*		*		*		
024	South of 30th and K Streets, NW	04/28/05	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	04/28/05	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	04/28/05	*		*		*		*		
027	33rd and Water Sts., NW	04/28/05	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/28/05	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	04/28/05	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	04/11/05	*			*			*		
032	26th and M Street, NW.	04/11/05	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	04/11/05	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	04/25/05	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	04/25/05	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/25/05	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	04/19/05	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	04/19/05	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	04/08/05	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	04/08/05	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/08/05	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/28/05	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	04/28/05	*		*		*		*		

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	
044	Kenyon Street and Beach Dr., NW.	04/28/05	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	04/28/05	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	04/12/05	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	04/12/05	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	04/12/05	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	04/12/05	*		*		*		*		
050	Rock Creek Parkway and L St., NW	04/19/05	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	04/21/05	* *		* *		* *		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	04/21/05	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	04/25/05	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	04/07/05	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	04/07/05	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	04/07/05	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	04/12/05	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	04/25/05	*		*		*		*		

Notes:

1. Outfall is submerged and not visible. CSO is performing acceptably as evidenced by lack of capacity/flooding issues associated with pipe.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	12	None			
Eastside	31	2	4	None			
Poplar Point	31	2 [1]	3	Screen # 1	03/18/05	Rake misaligned	07/31/05
Potomac	31	4	5	None			

Notes:

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

Table 2-4
Pumping Stations – Preventive Maintenance

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	30 days	Group A	Add oil, grease bearings and replace packing if needed.
O St	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	30 days	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens
Exercise all sump pumps
Drain condensation from air compressor storage tank
Check depth of screening in the screen room and schedule Vactor truck as required
Check all safety equipment
Issue work order requests as required

Table 2-5
Pumping Stations – Pumpage

	Sanitary Pumpage		*Storm Water/CSO Pumped To Anacostia River*		
Pumping Station	*Total Wastewater (mg)*	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	2,975.10	99.17	N/A	N/A	N/A
O St[1]	213.90	7.13	 4/2/05 4/3/05	 35.7 5.9	Normal
Eastside	130.60	4.35	N/A	N/A	N/A
Poplar Point	545.90	18.20	N/A	N/A	N/A
Potomac	4,218.50	140.62	N/A	N/A	N/A
Rock Creek	326.40	10.88	N/A	N/A	N/A
Upper Anacostia	78.80	2.63	N/A	N/A	N/A
Earle Place	0.76	0.03	N/A	N/A	N/A

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

2-6 Northeast Boundary Swirl Facility

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

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

Date Inspected	*# Screens*	*# Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
04/27/05	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	*Type of Preventive Maintenance Performed*[1]	*Comments*
4/27/05	Group A	

Notes:
1. Group A consists of:
Exercise bar screens
Exercise wash down system
Exercise knife gates full travel both directions
Check depth of grit in grit channel and schedule Vactor truck as required
Change chart paper on strip chart recorders at the end of each month
Thoroughly clean each Swirl tank and channels
Issue work order requests as required
Drain condensation from air compress
Check all safety equipment

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

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
4/2/05	10	13.49	6.2	7.29	1.20(96)
4/2/05	8	29.45	2.0	27.45	0.55(44)
4/2/05	8	15.60	2.70	12.90	1.50(120)
4/3/05	8	8.3	2.34	5.96	0.50(40)
4/8/05	6	5.81	5.81	0	0.50(40)
4/22/05	4	3.39	3.39	0	0.65(52)
4/23/05	4	1.98	1.98	0	1.75(140)
4/30/05	8	8.24	5.71	2.53	0.20(16)
4/30/05	4	5.3	5.3	0	0.65(52)
4/30/05	9	8.46	3.6	4.86	0.5.(40)

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*Enterococcus Test Results*		*Fecal Coliform Test Results*	
		NaOCl (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*	*Site*	*Count Per 100ml*
4/2/05	Yes	5	2	Mix Chamber	1.2	Mix Chamber	32,000	Mix Chamber	3,100
4/2/05	Yes	5	2	Anacostia River	0.1	Anacostia River	29,000	Anacostia River	45,000
4/2/05	Yes	5	2	Mix Chamber	0.5	Mix Chamber	13,600	Mix Chamber	24,000
4/2/05	Yes	5	2	Anacostia River	0.0	Anacostia River	23,000	Anacostia River	41,000
4/2/05	Yes	5	2	Mix Chamber	0.5	Mix Chamber	15,400	Mix Chamber	20,000
4/2/05	Yes	5	2	Anacostia River	0.0	Anacostia River	4,100	Anacostia River	11,800
4/2/05	Yes	5	2	Mix Chamber	2.5	Mix Chamber	126	Mix Chamber	54
4/2/05	Yes	5	2	Anacostia River	0.0	Anacostia River	15,400	Anacostia River	23,000
4/3/05	Yes	5	2	Mix Chamber	0.4	Mix Chamber	4,300	Mix Chamber	4,800
4/3/05	Yes	5	2	Anacostia River	0.0	Anacostia River	3,700	Anacostia River	9,091
4/30/05	Yes	5	2	Mix Chamber	0.4	Mix Chamber	49,00	Mix Chamber	160,000
4/30/05	Yes	5	2	Anacostia River	0.0	Anacostia River	38,00	Anacostia River	310,000

Notes:
1. Mix Chr.: Mixing Chamber
2. River: River Outfall

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

Date	*Flow Composited Sample Results*						
	Total suspended solids (mg/L)	Nitrite (NO2-N) mg/L	Nitrate (NO3-N)) mg/L	Total Kjeldahl Nitrogen (mg/L as N)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Carbonaceous Biological Oxygen Demand (mg/L)
4/02/05	122	< 0.05	0.80	2.38	3.18	0.43	12.5
4/03/05	86.0	< 0.05	0.97	2.60	3.57	0.51	18.5
4/30/05	63.0	0.05	0.78	3.48	4.31	0.66	28.8

2.10 Inflatable Dams

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

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

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	4/26/05	**No**	**N/A**	**N/A**	**N/A**
14 - West	4/26/05	**No**	**N/A**	**N/A**	**N/A**
15	4/26/05	**No**	**N/A**	**N/A**	**N/A**
15A	4/26/05	**No**	**N/A**	**N/A**	**N/A**
16 - East	4/26/05	**No**	**N/A**	**N/A**	**N/A**
16 - West	4/26/05	**No**	**N/A**	**N/A**	**N/A**
24 - North	4/26/05	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	4/26/05	**No**	**N/A**	**N/A**	**N/A**
24 - South	4/26/05	**No**	**N/A**	**N/A**	**N/A**
34	4/26/05	**No**	**N/A**	**N/A**	**N/A**
35	4/26/05	**No**	**N/A**	**N/A**	**N/A**
52	4/26/05	**No**	**N/A**	**N/A**	**N/A**

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

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*4/2/05* *4/3/05*	*5hr 53mins* *9hrs 48*
15A	*4/3/05* *4/17/05*	*13hrs 27mins* *5hrs 37min*
16 (E & W)	*4/2/05* *4/23/05*	*5hr 29mins* *10mins*
24	*None*	*N/A*
34	*None*	*N/A*
35	*None*	*N/A*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
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(E & W)	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1
Dry Weather Overflows

Location:	Anacostia Park, S.E. at NPDES Outfall #005 - Good Hope Road and Welsh Memorial Bridge
Cause	A build up of sticks from rainfall earlier in the day clogged the 10 inch diversion connection at structure #6, Chicago Street and Railroad St., SE, causing the flow to backup at the dam and overflow into the river
Date/ Time Discovered	4/8/05 at 3:10 p.m
Action Taken	Clean the line and remove the sticks.
Date/Time Discharge Ceased	4/8/05 at 6: 00 p.m
Estimated Volume (mg)	2.2
Did Overflow Reach Receiving water?	Yes, Anacostia River
Action taken to prevent reoccurrence	Evaluate the operation of the structure and monitor the system.

.Location:	NPDES Outfall #033 - N Street extended west of 25th Street, NW
Cause	A build up of grease clogged the 10 inch diversion connection at structure #51, (25th and N St., NW), causing the flow to backup at the dam and overflow into the river.
Date/ Time Discovered	4/11/05 at 11:20 a.m.
Action Taken	Unclogged the 10 inches diversion connection at structure #51.
Date/Time Discharge Ceased	4/11/05 at 11:30 a.m.
Estimated Volume (mg)	1.2
Did Overflow Reach Receiving water?	Yes, Rock Creek river
Action taken to prevent reoccurrence	Contract to re-line the 10 inches diversion drop connection and the 24 inch overflow is scheduled to start in the summer. Additionally, we will work with the Department of Health and DCRA's (Office of the Chief Plumbing Inspector) to identify restaurants that may be contributing to the grease problem.

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 Summaries

Ward	*Total CBs*	*CBs in CSS*	*CBs in Anacostia CSS*	*Inspections*		*Cleaning*					
				Total CBs Inspected Once this Year	*Total 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	1,591	1,568	734	734	350	2377	2327	0	0	2377	2327
2	4,714	4,112	2,316	624	0	1631	1336	0	0	1631	1336
3	3,555	461	-	0	0	1790	751	2473	303	4263	1054
4	2,782	1,985	159	14	0	131	66	0	0	131	66
5	2,167	1,035	1,035	119	0	204	119	0	0	204	119
6	1,783	1,594	1,594	149	0	193	124	27	25	220	149
7	2,313	-	-	0	0	282	0	132	0	414	0
8	1,278	116	116	65	0	416	65	0	0	416	65
WASA Subtotal	**20,183**	**10,871**	**5,954**	**1705**	**0**	**7,024**	**4,788**	**2632**	**328**	**9,656**	**5,116**
DDOT (via VMS) Subtotal				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**20,183**	**10,871**	**5,954**	**1705**	**0**	**7,024**	**4,788**	**2632**	**328**	**9,656**	**5,116**
% Cleaned/Inspected to Date				**29%**	**6%**					**48%**	**47%**

4.2 BMP Demonstration Projects

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

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

Table 4-2
BMP Demonstration Projects – Report

Facility	*Date Inspected*	*Condition*	*Work Needed*	*Work performed*	*Material Removed (CY)*
Netting System CSO 018	4/6/05 4/18/05	Good	None	Nets emptied.	150 lbs.
Bar Rack CSO 040	4/8/05	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	4/8/05	Good	None	Routine Cleaning	(1)

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

4.3 Anacostia River Floating Debris Removal Program

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

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	4
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	None
Dates	N/a
Reason	N/a
Plan to Restore to Service	N/a
Volume Material Collected	80 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

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

Status: no activities this month.

5. MONITORING

5.1 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

Table 5-1
CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries
SOLIDS AND FLOATABLES VISUAL SURVEY FORM

Date: 4/2/05 **Inspector's Initials: CD**

CSO	Time of Observation	Overflow Observed		Observed Overflow Rate			Quantity of Floatables			Quantity of Man-Made			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009	2 pm	x		x			x			x			
	3 pm	x		x			x			x			
010	4 pm	x		x			x			x			
011													
011a													
012													

Note: L= Low, M= Moderate, H= High

Date: 4/2/05 **Inspector's Initials: CD**

CSO	Time of Observation	Overflow Observed		Observed Overflow Rate			Quantity of Floatables			Quantity of Man-Made			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009	4 pm	x		x			x			x			
010													
011													
011a													
012													

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2 Rainfall Data (inches)

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS	National Airport
4/1/2005	0	0	0	0	0.3
4/2/2005	0	0	0	0	1.79
4/3/2005	0	0	0	0	0.13
4/4/2005	0	0	0	0	0
4/5/2005	0	0	0	0	0
4/6/2005	0	0	0	0	0
4/7/2005	0.16	0.27	0.13	0.11	0.12
4/8/2005	0.11	0.27	0.46	0.2	0.21
4/9/2005	0	0	0	0	0
4/10/2005	0	0	0	0	0
4/11/2005	0	0	0	0	0
4/12/2005	0	0	0	0	0.01
4/13/2005	0	0	0	0	T
4/14/2005	0	0	0	0	0
4/15/2005	0	0	0	0	0
4/16/2005	0	0	0	0	0
4/17/2005	0	0	0	0	0
4/18/2005	0	0	0	0	0
4/19/2005	0	0	0.01	0	T
4/20/2005	0	0	0	0	0
4/21/2005	0.13	0.16	0.11	0.1	0.12
4/22/2005	0.21	0.22	0.18	0.22	0.16
4/23/2005	0.36	0.25	0.35	0.27	0.32
4/24/2005	0	0	0	0	T
4/25/2005	0	0	0	0	T
4/26/2005	0	0	0	0	T
4/27/2005	0.01	0	0	0	0
4/28/2005	0	0	0	0	0
4/29/2005	0.01	0	0	0	0.01
4/30/2005	0.86	1.03	1.09	0.94	1.16
Total	1.85	2.2	2.33	1.84	4.33

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

Monthly Operations Report For *Combined Sewer System*

Month: May, 2005

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

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

Monthly Operations Report for Combined Sewer System
Month: May, 2005

Table of Contents

1. INTRODUCTION

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

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

2. OPERATION AND MAINTENACE

2.1 Regulators

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

Table 2-1
Regulator Structures

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	5/24/05	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	5/24/05	*			
5	Poplar Point Pumping Station	004	5/25/05	*			
6	Chicago Street and Railroad Ave, SE	005	5/10/05	*			
7	W Street. and Railroad Ave, SE	005	5/10/05	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	5/06/05	*			
9	13th Street and Ridge Place, SE	007	5/06/05	*			
11	"O" Street Pumping Station	011(a)	5/25/05	*			
12	Storm Pump Discharge at Main Pumping Station	011	5/25/05	*			
13	2nd Street, 300 ft. north of N Place, SE	009	5/04/05	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	5/17/05	*			
15	South Capitol and E Streets	010	5/17/05	*			
15a	Half and L Streets, SE	010	5/17/05	*			
15b	South Capitol and I Streets	010	5/17/05	*			
15c	South Capitol and I Streets	010	5/04/05	*			
16	North of Main Sewage Pumping Station	012	5/04/05	*			
17	4th and N Streets, SE, Both Extended	013	5/11/05	*			
17a	K Street between 6th Street and 7th Street, SE	013	5/25/05	*			
18	6th and M Streets, SE	014	5/11/05	*			
19	9th and M Streets, SE	015	5/06/05	*			
19a	9th and M Streets, SE	015	5/06/05	*			
20	12th and M Streets, SE	016	5/06/05	*			
20a	12th and M Streets, SE	016	5/06/05	*			
21	14th and M Streets, SE	017	5/12/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
22a	Barney Circle and Pennsylvania Ave, SE	018	5/23/05	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	5/23/05	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	5/23/05	*			
22d	Kentucky Ave and Potomac Street, SE	018	5/05/05	*			
22e	14th Street and Kentucky Ave, SE	018	5/05/05	*			
23	Independence Ave, 21st Street, SE, Extended	019	5/11/05	*			
24a	East Capitol St, west of RFK stadium	019	5/11/05	*			
28	21st and Constitution Ave, NW	020	5/27/05	*			
29	22nd Street, between Constitution Ave and C St, NW	020	5/27/05	*			
30	17th and D Streets, NW	020	5/16/05	*			
31	15th Street and Pennsylvania Ave, NW	020	5/16/05	*			
33	10th and F Streets, NW	020	5/16/05	*			
34	23rd Street, north of Constitution Ave, NW	020	5/19/05	*			
34a	23rd Street near C Street, NW	020	5/19/05	*			
35	Northeast of Roosevelt Bridge, NW	021	5/19/05	*			
36	27th and I Streets, NW	022	5/26/05	*			
36a	New Hampshire Ave and Eye Street, NW	022	5/26/05	*			
36b	19th and L Streets, NW	022, 034	5/06/05	*			
36d	17th and L Streets, NW	022, 034	5/06/05	*			
36g	18th and M Streets, NW	022, 034	5/06/05	*			
36h	18th and M Streets, NW	022, 034	5/06/05	*			
37	27th and Eye Streets, NW	022	5/26/05	*			
38	29th and K Streets, NW	024	5/04/05	*			
38a	30th Street, south of K Street, NW	024	5/04/05	*			
39a	30th and K Streets, NW	024	5/04/05	*			
39b	30th and K Streets, NW	024	5/04/05	*			
41b	31st and K Streets, NW	025	5/06/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
41c	31st and K Streets, NW	025	5/06/05	*			
42	Wisconsin Ave and K Street, NW	026	5/06/05	*			
43	Potomac and Water Streets, NW	027	5/06/05	*			
43a	Potomac and Water Streets, NW	027	5/06/05	*			
44	Water Street, west of Potomac St, NW	027	5/06/05	*			
45	36th and M Streets, NW	028	5/24/05	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	5/02/05	*			
47	38th Street and Reservoir Road, NW	029	5/02/05	*			
47a	37th and T Streets, NW	029	5/02/05	*			
47b	37th and T Streets, NW	029	5/02/05	*			
47c	38th and W Streets, NW	029	5/02/05	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	5/05/05	*			
50	26 and M Streets, NW	032	5/05/05	*			
51	N Street Extended, west of 25th Street, NW	033	5/05/05	*			
52	22nd Street between M and N Streets, NW	034	5/19/05	*			
52a	N Street between 22nd and 23rd Streets, NW	034	5/19/05	*			
53	22nd and M Streets, NW	022, 034	5/19/05	*			
53a	22nd and M Streets, NW	022, 034	5/19/05	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	5/19/05	*			
53c	L and 22nd Streets, NW	022	5/19/05	*			
54	23rd and O Streets, NW	034	5/18/05	*			
55	22nd Street, south of Q Street, NW	035	5/18/05	*			
55a	22nd Street, south of Q Street, NW	035	5/18/05	*			
56	23rd and Massachusetts Ave, NW	036	5/18/05	*			
57	23rd Street, south of Q Street, NW	036	5/18/05	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	5/11/05	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	5/11/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
60	Connecticut Ave, east of Rock Creek, NW	039	5/11/05	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	5/11/05	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	5/25/05	*			
63	Harvard Street and Rock Creek Parkway, NW	042	5/25/05	*			
64	Adams Mill Road, south of Irving Street, NW	043	5/25/05	*			
65	Kenyon Street and Adams Mill Road, NW	044	5/25/05	*			
65a	Kenyon Street and Adams Mill Road, NW	044	5/25/05	*			
66	Adams Mill Road and Lamont Street, NW	045	5/25/05	*			
67	Park Rd , South of Piney Branch Pkwy, NW	046	5/25/05	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	5/25/05	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	5/25/05	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	5/25/05	*			
70i	5th and Quackenbos Streets, NW	049	5/05/05	*			
71	28th Street, west of Rock Creek Parkway, NW	050	5/24/05	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	5/18/05	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	5/18/05	*			
73	O Street Extended and Rock Creek Parkway, NW	052	5/18/05	*			
74	Q Street, west of Rock Creek, NW	053	5/18/05	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	5/26/05	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	5/02/05	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	5/02/05	*			
78	28th Street Extended, west of Rock Creek, NW	057	5/26/05	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	5/05/05	*			
84	26th and P Streets, NW	060	5/18/05	*			
84a	26th and P Streets, NW	060	5/18/05	*			

Notes:

1. For regulators noted as “visually checked outfall”, the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

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

Table 2 - Outfalls and Tide Gates

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	5/24/05	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	5/12/05	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	5/12/05	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	5/12/05	*		*		*		*		
009	O St. Sewage Pumping Station, SE	5/04/05	*		*		*		*		
010	O St. Sewage Pumping Station, SE	5/17/05	*			*			*		
011	Main Sewage Pumping Station, SE	5/17/05	*			*			*		
011(a)	Main Sewage Pumping Station, SE	5/17/05	*		*		*		*		
012	Main Sewage Pumping Station, SE	5/17/05	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	5/26/05	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	5/26/05	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	5/26/05	*			*			*		
016	12th and O Streets, SE	5/12/05	*		*		*		*		
017	M and Water Street, SE	5/12/05	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	5/12/05	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	5/11/05	*			*			*		
020	Rock Creek Parkway and Independence, NW	5/26/05	*		*		*		*		
021	Rock Creek Parkway and C St., NW	5/26/05	*			*			*		
022	Rock Creek Parkway and G St., NW		*		*		*		*		

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	
024	South of 30th and K Streets, NW	5/26/05	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	5/26/05	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	5/26/05	*		*		*		*		
027	33rd and Water Sts., NW	5/26/05	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	5/26/05	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	5/26/05	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	5/05/05	*			*			*		
032	26th and M Street, NW.	5/05/05	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	5/05/05	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	5/18/05	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	5/18/05	*		*		*		*		
036	22nd Street, South of Q Street NW.	5/26/05	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	5/11/05	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	5/11/05	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	5/11/05	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	5/11/05	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	5/12/05	*		*		*		*		
042	Harvard St. and Beach Dr NW.	5/12/05	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	5/12/05	*		*		*		*		

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	
044	Kenyon Street and Beach Dr., NW.	5/12/05	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	5/12/05	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	5/25/05	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	5/25/05	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	5/25/05	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	5/25/05	*		*		*		*		
050	Rock Creek Parkway and L St., NW	5/24/05	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	5/05/05	* *		* *		* *		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	5/05/05	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	5/24/05	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	5/26/05	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	5/26/05	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	5/26/05	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	5/05/05	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	5/24/05	*		*		*		*		

Notes:

1. Outfall is submerged and not visible. CSO is performing acceptably as evidenced by lack of capacity/flooding issues associated with pipe.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	12	None			
Eastside	31	2	4	None			
Poplar Point	31	2 [1]	3	Screen # 1	03/18/05	Rake misaligned	07/31/05
Potomac	31	4	5	None			

Notes:

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

Table 2-4
Pumping Stations – Preventive Maintenance

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

Notes:

1. Group A consists of:

Exercise bar screens
Exercise all sump pumps
Drain condensation from air compressor storage tank
Check depth of screening in the screen room and schedule Vactor truck as required
Check all safety equipment
Issue work order requests as required

Table 2-5
Pumping Stations – Pumpage

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	2,411.70	77.80	N/A	N/A	N/A
O St[1]	162.90	5.25	5/14/05 5/20/05	32.76 10.6	Normal
Eastside	116.40	3.75	N/A	N/A	N/A
Poplar Point	604.90	19.51	N/A	N/A	N/A
Potomac	4,425.30	142.75	N/A	N/A	N/A
Rock Creek	339.20	10.94	N/A	N/A	N/A
Upper Anacostia	65.10	2.10	N/A	N/A	N/A
Earle Place	1.921	0.062	N/A	N/A	N/A

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

2-6 Northeast Boundary Swirl Facility

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

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

Date Inspected	*# Screens*	*# Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
05/27/05	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Note
May 1, 2005 event was an extension of the April 30, 2005 event; composite sample was collected and reported on April 30, 2005.

Table 2-7

Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	*Type of Preventive Maintenance Performed*[1]	*Comments*
05/27/05	Group A	

Notes:

1. Group A consists of:

Exercise bar screens
Exercise wash down system
Exercise knife gates full travel both directions
Check depth of grit in grit channel and schedule Vactor truck as required
Change chart paper on strip chart recorders at the end of each month
Thoroughly clean each Swirl tank and channels
Issue work order requests as required
Drain condensation from air compress
Check all safety equipment

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

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
5/1/05	6.00	8.46	3.6	4.86	0.50(40)
5/14/05	3.00	1.73	1.73	0	1.70(136)
5/20/05	5.50	28.09	6.66	21.43	1.30(104)
5/20/05	8.00	53.59	5.81	47.78	1.0(80)
5/20/05	5.00	1.0	1.0	0	0.50(40)
5/24/05	0.40	2.92	2.92	0	0.10(8)
5/24/05	5.00	4.74	4.74	0	0.25(20)

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*Enterococcus Test Results*		*Fecal Coliform Test Results*	
		NaOCl (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*	*Site*	*Count Per 100ml*
5/1/05	Yes	5	2	Mix Chamber	0.3	Mix Chamber	130,000	Mix Chamber	250,000
5/1/05	Yes	5	2	Anacostia River	0.0	Anacostia River	80,000	Anacostia River	52,000
5/20/05	Yes	5	2	Mix Chamber	0.7	Mix Chamber	991	Mix Chamber	250
5/20/05	Yes	5	2	Anacostia River	0.0	Anacostia River	11,800	Anacostia River	3,700
5/20/05	Yes	5	2	Mix Chamber	0.3	Mix Chamber	11,800	Mix Chamber	27,000
5/20/05	Yes	5	2	Anacostia River	0.0	Anacostia River	25,000	Anacostia River	38,000

Notes:
1. Mix Chr.: Mixing Chamber
2. River: River Outfall

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

Date	*Flow Composited Sample Results*						
	Total suspended solids (mg/L)	Nitrite (NO2-N) mg/L	Nitrate (NO3-N)) mg/L	Total Kjeldahl Nitrogen (mg/L as N)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Carbonaceous Biological Oxygen Demand (mg/L)
5/20/05	71.0	< 0.05	0.60	1.77	2.37	0.63	63.6

Notes:
1. The May 1, 2005 event was a continuation of the April 30, 2005 event. Samples were collected for this event and are reported in the April 2005 monthly report.

2.10 Inflatable Dams

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

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

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	5/26/05	**No**	**N/A**	**N/A**	**N/A**
14 - West	5/26/05	**No**	**N/A**	**N/A**	**N/A**
15	5/26/05	**No**	**N/A**	**N/A**	**N/A**
15A	5/26/05	**No**	**N/A**	**N/A**	**N/A**
16 - East	5/26/05	**No**	**N/A**	**N/A**	**N/A**
16 - West	5/26/05	**No**	**N/A**	**N/A**	**N/A**
24 - North	5/26/05	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	5/26/05	**No**	**N/A**	**N/A**	**N/A**
24 - South	5/26/05	**No**	**N/A**	**N/A**	**N/A**
34	5/26/05	**No**	**N/A**	**N/A**	**N/A**
35	5/26/05	**No**	**N/A**	**N/A**	**N/A**
52	5/26/05	**No**	**N/A**	**N/A**	**N/A**

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

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*5/14/05* *5/20/05*	*3hr 33mins* *9hrs 08mins*
15A	*None*	*N/A*
16 (E & W)	*5/14/05* *5/15/05* *5/20/05*	*33mins* *5mins* *3hrs 44mins*
24	*None*	*N/A*
34	*None*	*N/A*
35	*None*	*N/A*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
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(E & W)	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1
Dry Weather Overflows

Location:	**NONE**
Cause	
Date/ Time Discovered	
Action Taken	
Date/Time Discharge Ceased	
Estimated Volume (mg)	
Did Overflow Reach Receiving water?	
Action taken to prevent reoccurrence	

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 Summaries

Ward	*Total CBs*	*CBs in CSS*	*CBs in Anacostia CSS*	*Inspections*		*Cleaning*					
				Total CBs Inspected Once this Year	*Total 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	1,591	1,568	734	734	734	2377	2327	11	11	2388	2338
2	4,714	4,112	2,316	725	0	1631	1336	101	101	1732	1437
3	3,555	461	-	0	0	4263	1054	419	250	4682	1304
4	2,782	1,985	159	159	63	131	66	1777	720	1908	786
5	2,167	1,035	1,035	119	0	204	119	0	0	204	119
6	1,783	1,594	1,594	149	0	220	149	0	0	220	149
7	2,313	-	-	0	0	414	0	0	0	414	0
8	1,278	116	116	65	0	416	65	0	0	416	65
WASA Subtotal	**20,183**	**10,871**	**5,954**	**1951**	**797**	**9,656**	**5,116**	**2,308**	**1,082**	**11,964**	**6,198**
DDOT (via VMS) Subtotal				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**20,183**	**10,871**	**5,954**	**1951**	**797**	**9,656**	**5,116**	**2,308**	**1,082**	**11,964**	**6,198**
% Cleaned/Inspected to Date				**33%**	**13%**					**59%**	**57%**

4.2 BMP Demonstration Projects

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

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

Table 4-2
BMP Demonstration Projects – Report

Facility	*Date Inspected*	*Condition*	*Work Needed*	*Work performed*	*Material Removed (CY)*
Netting System CSO 018	5/2/05 5/10/05	Good	None	Nets emptied.	160 lbs.
Bar Rack CSO 040	5/11/05	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	5/12/05	Good	None	Routine Cleaning	(1)

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

4.3 Anacostia River Floating Debris Removal Program

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

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	4
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	None
Dates	N/a
Reason	N/a
Plan to Restore to Service	N/a
Volume Material Collected	10 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

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

Status: no activities this month.

5. MONITORING

5.1 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

Table 5-1
CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries
SOLIDS AND FLOATABLES VISUAL SURVEY FORM

Date:5/14/05 **Inspector's Initials: TC**

		Overflow Observed		Observed Overflow Rate			Quantity of Floatables			Quantity of Man-Made			
CSO	Time of Observation	Y	N	L	M	H	L	M	H	L	M	H	REMARKS/OTHER
009	7:00 am	x		x			x			x			
	9:00 am	x		x			x			x			
	11:00 am		x										
010	7:00 am	x		x			x			x			
	9:00 am	x		x			x			x			
	11:00 am		x				x			x			
011													
011a													
012													

Note: L= Low, M= Moderate, H= High

Date: 4/2/05 **Inspector's Initials: CD**

CSO	Time of Observation	Overflow Observed		Observed Overflow Rate			Quantity of Floatables			Quantity of Man-Made			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009	9:00 am		x	x			x			x			
010	10:00 am		x	x			x			x			
011	11:00 am		x	x			x			x			
011a													
012	12:00 am		x	x			x			x			

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2 Rainfall Data (inches)

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS	National Airport
5/1/2005	0.02	0.02	0.02	0.02	0.11
5/2/2005	0.02	0.02	0.03	0.01	0.01
5/3/2005	0	0	0	0	T
5/4/2005	0	0	0	0	T
5/5/2005	0	0	0	0	0
5/6/2005	0	0	0	0	0
5/7/2005	0	0	0	0	0
5/8/2005	0	0	0	0	0
5/9/2005	0	0	0	0	0
5/10/2005	0	0	0	0	0
5/11/2005	0	0	0	0	0
5/12/2005	0	0	0	0	T
5/13/2005	0	0	0	0	0
5/14/2005	0.67	1.05	1.05	0.74	1.13
5/15/2005	0	0	0	0	T
5/16/2005	0	0	0	0	T
5/17/2005	0	0	0	0	0
5/18/2005	0	0	0	0	0
5/19/2005	0.02	0.01	0.01	0.01	0.24
5/20/2005	2.72	1.98	2.77	1.98	2.63
5/21/2005	0	0.01	0	0.01	0
5/22/2005	0	0	0	0	0.02
5/23/2005	0.01	0.02	0.01	0.02	0.01
5/24/2005	0.62	0.46	0.53	0.46	0.44
5/25/2005	0	0	0	0	T
5/26/2005	0	0	0	0	0
5/27/2005	0	0	0	0	0
5/28/2005	0	0	0	0	T
5/29/2005	0	0	0	0	0
5/30/2005	0	0	0	0	0.02
5/31/2005	0	0	0.0001	0	T

Total	4.08	3.57	4.4201	3.25	4.61

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

Monthly Operations Report
For
Combined Sewer System
Month: June, 2005

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

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

Monthly Operations Report for Combined Sewer System
Month: June, 2005

Table of Contents

1. INTRODUCTION

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

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

2. OPERATION AND MAINTENACE

2.1 Regulators

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

Table 2-1
Regulator Structures

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/16/05	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/16/05	*			
5	Poplar Point Pumping Station	004	06/14/05	*			
6	Chicago Street and Railroad Ave, SE	005	06/07/05	*			
7	W Street and Railroad Ave, SE	005	06/06/05	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	06/06/05	*			
9	13th Street and Ridge Place, SE	007	06/01/05	*			
11	"O" Street Pumping Station	011(a)	06/14/05	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/14/05	*			
13	2nd Street, 300 ft. north of N Place, SE	009	06/01/05	*			
14	2nd Street, 250 ft. north of N Place, SE	011(a)	06/14/05	*			
15	South Capitol and E Streets	010	06/09/05	*			
15a	Half and L Streets, SE	010	06/09/05	*			
15b	South Capitol and I Streets	010	06/14/05	*			
15c	South Capitol and I Streets	010	06/14/05	*			
16	North of Main Sewage Pumping Station	012	06/14/05	*			
17	4th and N Streets, SE, Both Extended	013	06/08/05	*			
17a	K Street between 6th Street and 7th Street, SE	013	06/23/05	*			
18	6th and M Streets, SE	014	06/01/05	*			
19	9th and M Streets, SE	015	06/03/05	*			
19a	9th and M Streets, SE	015	06/03/05	*			
20	12th and M Streets, SE	016	06/03/05	*			
20a	12th and M Streets, SE	016	06/03/05	*			
21	14th and M Streets, SE	017	06/03/05	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	06/22/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	06/22/05	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	06/20/05	*			
22d	Kentucky Ave and Potomac Street, SE	018	06/08/05	*			
22e	14th Street and Kentucky Ave, SE	018	06/08/05	*			
23	Independence Ave, 21st Street, SE, Extended	019	06/08/05	*			
24a	East Capitol St, west of RFK stadium	019	06/08/05	*			
28	21st and Constitution Ave, NW	020	06/23/05	*			
29	22nd Street, between Constitution Ave and C St, NW	020	06/23/05	*			
30	17th and D Streets, NW	020	06/20/05	*			
31	15th Street and Pennsylvania Ave, NW	020	06/20/05	*			
33	10th and F Streets, NW	020	06/03/05	*			
34	23rd Street, north of Constitution Ave, NW	020	06/09/05	*			
34a	23rd Street near C Street, NW	020	06/09/05	*			
35	Northeast of Roosevelt Bridge, NW	021	06/09/05	*			
36	27th and I Streets, NW	022	06/23/05	*			
36a	New Hampshire Ave and Eye Street, NW	022	06/23/05	*			
36b	19th and L Streets, NW	022, 034	06/07/05	*			
36d	17th and L Streets, NW	022, 034	06/07/05	*			
36g	18th and M Streets, NW	022, 034	06/07/05	*			
36h	18th and M Streets, NW	022, 034	06/07/05	*			
37	27th and Eye Streets, NW	022	06/22/05	*			
38	29th and K Streets, NW	024	06/01/05	*			
38a	30th Street, south of K Street, NW	024	06/01/05	*			
39a	30th and K Streets, NW	024	06/01/05	*			
39b	30th and K Streets, NW	024	06/01/05	*			
41b	31st and K Streets, NW	025	06/20/05	*			
41c	31st and K Streets, NW	025	06/20/05	*			
42	Wisconsin Ave and K Street, NW	026	06/03/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
43	Potomac and Water Streets, NW	027	06/03/05	*			
43a	Potomac and Water Streets, NW	027	06/03/05	*			
44	Water Street, west of Potomac St, NW	027	06/03/05	*			
45	36th and M Streets, NW	028	06/08/05	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	06/01/05	*			
47	38th Street and Reservoir Road, NW	029	06/01/05	*			
47a	37th and T Streets, NW	029	06/01/05	*			
47b	37th and T Streets, NW	029	06/01/05	*			
47c	38th and W Streets, NW	029	06/01/05	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	06/06/05	*			
50	26 and M Streets, NW	032	06/06/05	*			
51	N Street Extended, west of 25th Street, NW	033	06/06/05	*			
52	22nd Street between M and N Streets, NW	034	06/09/05	*			
52a	N Street between 22nd and 23rd Streets, NW	034	06/10/05	*			
53	22nd and M Streets, NW	022, 034	06/13/05	*			
53a	22nd and M Streets, NW	022, 034	06/13/05	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	06/13/05	*			
53c	L and 22nd Streets, NW	022	06/13/05	*			
54	23rd and O Streets, NW	034	06/10/05	*			
55	22nd Street, south of Q Street, NW	035	06/20/05	*			
55a	22nd Street, south of Q Street, NW	035	06/20/05	*			
56	23rd and Massachusetts Ave, NW	036	06/20/05	*			
57	23rd Street, south of Q Street, NW	036	06/20/05	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	06/08/05	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	06/08/05	*			
60	Connecticut Ave, east of Rock Creek, NW	039	06/07/05	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	06/07/05	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	06/10/05	*			

Struct No.	*Location*	*Associated NPDES Outfall*	*Date Inspected*	*Condition*		*Work Needed*	*Work performed*
				Good	Needs Work		
63	Harvard Street and Rock Creek Parkway, NW	042	06/10/05	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/13/05	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/13/05	*			
65a	Kenyon Street and Adams Mill Road, NW	044	06/13/05	*			
66	Adams Mill Road and Lamont Street, NW	045	06/13/05	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	06/13/05	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	06/13/05	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/13/05	*			
70	Piney Branch Parkway, west of 16th Street, NW	049	06/13/05	*			
70i	5th and Quackenbos Streets, NW	049	06/10/05	*			
71	28th Street, west of Rock Creek Parkway, NW	050	06/01/05	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/21/05	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/21/05	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/21/05	*			
74	Q Street, west of Rock Creek, NW	053	06/20/05	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	06/23/05	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	06/23/05	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	06/07/05	*			
78	28th Street Extended, west of Rock Creek, NW	057	06/23/05	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	06/07/05	*			
84	26th and P Streets, NW	060	06/21/05	*			
84a	26th and P Streets, NW	060	06/21/05	*			

Notes:

1. For regulators noted as "visually checked outfall", the outfall was visually observed to confirm no DWO was occurring.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

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

Table 2 - Outfalls and Tide Gates

NPDES Outfall	*Location*	*Date Inspected*	*Outfall Condition*		*Tide Gate Present?*		*Tide Gate Condition*		*CSO Sign*		*Notes, Work Needed or Performed*
			OK	Needs Work	Yes	No	OK	Needs Work	OK	Needs Work	
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	06/16/05	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/21/05	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	06/02/05	*		*		*		*		
007	Between 11th St. and Anacostia Bridges, SE	06/02/05	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/01/05	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/09/05	*			*			*		
011	Main Sewage Pumping Station, SE	06/09/05	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/09/05	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/09/05	*		*		*		*		
013	Southeast Federal Center, aligned with 4th St.	06/27/05	*		*		*		*		
014	Navy Yard, aligned with 6th St., SE	06/27/05	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/27/05	*			*			*		
016	12th and O Streets, SE	06/10/05	*		*		*		*		
017	M and Water Street, SE	06/10/05	*		*		*		*		
018	East of Barney Circle and South of Pennsylvania Avenue Bridge, SE	06/10/05	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility and D.C. General Hospital	06/24/05	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/23/05	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/23/05	*			*			*		
022	Rock Creek Parkway and G St., NW	06/23/05	*		*		*		*		

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	
024	South of 30th and K Streets, NW	06/21/05	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
025	South of 31st and K Streets, NW	06/21/05	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	06/21/05	*		*		*		*		
027	33rd and Water Sts., NW	06/21/05	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	06/21/05	*			*			*		
029	Adjacent to C&O Canal, aligned with 38th St. NW	06/21/05	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	06/06/05	*			*			*		
032	26th and M Street, NW.	06/06/05	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	06/06/05	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/10/05	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	06/24/05	*		*		*		*		
036	22nd Street, South of Q Street NW.	06/22/05	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	06/08/05	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/08/05	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/07/05	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/07/05	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	06/24/05	*		*		*		*		
042	Harvard St. and Beach Dr NW.	06/22/05	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/22/05	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/22/05	*		*		*		*		

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	
045	North of Beach Dr. and Walbridge Pl, NW.	06/22/05	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	06/13/05	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	06/13/05	*		*		*		*		
048	South of Piney Branch Parkway and 17th St.	06/13/05	*		*		*		*		
049	North of Piney Branch Parkway and 17th St.	06/13/05	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/13/05	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.	06/13/05	*		*		*		*		
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	06/13/05	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	06/22/05	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	06/23/05	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	06/23/05	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	06/23/05	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	06/10/05	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	06/22/05	*		*		*		*		

Notes:

1. Outfall is submerged and not visible. CSO is performing acceptably as evidenced by lack of capacity/flooding issues associated with pipe.

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

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

Pumping Station	*No. of Inspections*	*No. Screens*	*No. Pumps*	*Screens or Pumps Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
Main	31	4	12	Screen # 2	6/18/05	#2 Screen jammed	7/31/05
Eastside	31	2	4	None			
Poplar Point	31	2 [1]	3	Screen # 1	03/18/05	Rake misaligned	07/31/05
Potomac	31	4	5	None			

Notes:

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

Table 2-4
Pumping Stations – Preventive Maintenance

Pumping Station	*Date Performed*	*Type of Preventive Maintenance Performed*[1]	*Comments*
Main	30 days	Group A	Add oil, grease bearings and replace packing if needed.
O St	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	30 days	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	30 days	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens
Exercise all sump pumps
Drain condensation from air compressor storage tank
Check depth of screening in the screen room and schedule Vactor truck as required
Check all safety equipment
Issue work order requests as required

Table 2-5
Pumping Stations – Pumpage

Pumping Station	*Sanitary Pumpage*		*Storm Water/CSO Pumped To Anacostia River*		
	Total Wastewater (mg)	*Daily Average Wastewater (mg)*	*Date*	*Volume (mg)*	*Screenings Collected (units)*
Main	2,169.40	72.31	N/A	N/A	N/A
O St[1]	162.40	5.41	N/A	None	Normal
Eastside	88.80	2.96	N/A	N/A	N/A
Poplar Point	513.70	17.12	N/A	N/A	N/A
Potomac	3,866.30	128.88	N/A	N/A	N/A
Rock Creek	308.80	10.29	N/A	N/A	N/A
Upper Anacostia	61.50	2.05	N/A	N/A	N/A
Earle Place	3.17	0.11	N/A	N/A	N/A

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

2-6 Northeast Boundary Swirl Facility

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

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

Date Inspected	*# Screens*	*# Swirls*	*Screens or Swirls Out of Service*	*Dates*	*Reason*	*Schedule to Restore to Service*
06/22/05	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	*Type of Preventive Maintenance Performed*[1]	*Comments*
06/22/05	Group A	

Notes:
1. Group A consists of:
Exercise bar screens
Exercise wash down system
Exercise knife gates full travel both directions
Check depth of grit in grit channel and schedule Vactor truck as required
Change chart paper on strip chart recorders at the end of each month
Thoroughly clean each Swirl tank and channels
Issue work order requests as required
Drain condensation from air compress
Check all safety equipment

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

Date	*Approx. Storm Duration[1] (Hours)*	*Total Influent Volume (mg)*	*Total Foul Sewer Volume (mg)*	*Total Effluent Volume[2] (mg)*	*Approx. Screenings Volume[3] # of bins (cu ft)*
6/3/05	3.83	9.72	4.96	4.75	1.0(80)
6/6/05	3.50	3.33	2.68	0.63	0.75(60)
6/7/05	7.50	6.4	4.15	2.25	0.85(68)
6/29/05	3.25	9.12	7.29	1.82	2.0(160)
6/30/05	2.0	0.49	0.49	0	0.20(16)

Chlorination/Dechlorination Systems.

The table below summarizes the information about operation of Swirl Facility chlorination and dechlorination systems during storm events. Chemical feed systems were activated during the storms in which flows were substantial enough to overflow the mix chamber weir. Included in the table are results of residual chlorine, enterococcus and fecal coliform testing for samples taken in the Swirl Facility mix chamber and at the facility effluent outfall to the Anacostia River.

Taking a grab sample and immediately testing it with a portable analyzing kit obtain test results for residual chlorine. Samples for fecal coliform and enterococcus are taken from the designated sample point, treated with sodium bisulfate to remove any residual chlorine, and conveyed to the Blue Plains Wastewater Treatment Plant Laboratory for testing.

Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance

Date	*Chlor/ Dechlor System Used?*	*Dosages*		*Residual Chlorine Test Results*		*Enterococcus Test Results*		*Fecal Coliform Test Results*	
		NaOCl (mg/l)	*$NaHSO_3$ (mg/l)*	*Location*	*Conc. (mg/l)*	*Site*	*Count Per 100ml*	*Site*	*Count Per 100ml*
6/3/05	Yes	5	2	Mix Chamber	0.2	Mix Chamber	54,000	Mix Chamber	180,000
6/3/05	Yes	5	2	Anacostia River	0.0	Anacostia River	58,000	Anacostia River	160,000
6/6/05	Yes	5	2	Mix Chamber	0.3	Mix Chamber	24,000	Mix Chamber	34,000
6/6/05	Yes	5	2	Anacostia River	0.0	Anacostia River	44,000	Anacostia River	60,000
6/29/05	Yes	5	2	Mix Chamber	0.1	Mix Chamber	120,000	Mix Chamber	110,000
6/29/05	Yes	5	2	Anacostia River	0.0	Anacostia River	150,000	Anacostia River	140,000

Notes:
1. Mix Chr.: Mixing Chamber
2. River: River Outfall

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

Date	*Flow Composited Sample Results*						
	Total suspended solids (mg/L)	Nitrite (NO2-N) mg/L	Nitrate (NO3-N)) mg/L	Total Kjeldahl Nitrogen (mg/L as N)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Carbonaceous Biological Oxygen Demand (mg/L)
6/03/05	84.0	0.05	0.38	3.58	4.01	0.51	25.5
6/06/05	182	0.07	0.41	1.84	2.32	0.58	109
6/29/05	72.0	0.070	0.63	2.89	3.59	0.65	31.0

2.10 Inflatable Dams

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

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

Inflatable Dam Structure No	*Date Inspected*	*Was Dam Out of Service During the Month?*	*Dates out of Service*	*Reason*	*Schedule to Restore to Service*
14 - East	06/21/05	**No**	**N/A**	**N/A**	**N/A**
14 - West	06/21/05	**No**	**N/A**	**N/A**	**N/A**
15	06/21/05	**No**	**N/A**	**N/A**	**N/A**
15A	06/21/05	**No**	**N/A**	**N/A**	**N/A**
16 - East	06/21/05	**No**	**N/A**	**N/A**	**N/A**
16 - West	06/21/05	**No**	**N/A**	**N/A**	**N/A**
24 - North	06/21/05	**No**	**N/A**	**N/A**	**N/A**
24 - Middle	06/21/05	**No**	**N/A**	**N/A**	**N/A**
24 - South	06/21/05	**No**	**N/A**	**N/A**	**N/A**
34	06/21/05	**No**	**N/A**	**N/A**	**N/A**
35	06/21/05	**No**	**N/A**	**N/A**	**N/A**
52	06/21/05	**No**	**N/A**	**N/A**	**N/A**

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

Inflatable Dam Structure No.	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
14 (E & W)	*None*	*N/A*
15	*None*	*N/A*
15A	*None*	*N/A*
16 (E & W)	*None*	*N/A*
24	*None*	*N/A*
34	*None*	*N/A*
35	*None*	*N/A*
52	*None*	*N/A*
Structures on Outfall Sewers	*Overflow Dates*	*Estimated Duration of Overflow (hrs)*
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(E & W)	None	None
Outfall Sewer Control Gates	*Operational Status*	*Position*
Outfall Sewer Control Gate No. 1	Operational	Open
Outfall Sewer Control Gate No.2	Operational	Open

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Table 3-1
Dry Weather Overflows

Location:	NONE
Cause	
Date/ Time Discovered	
Action Taken	
Date/Time Discharge Ceased	
Estimated Volume (mg)	
Did Overflow Reach Receiving water?	
Action taken to prevent reoccurrence	

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 Summaries

Ward	*Total CBs*	*CBs in CSS*	*CBs in Anacostia CSS*	*Inspections*		*Cleaning*					
				Total CBs Inspected Once this Year	*Total 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	1,591	1,568	734	734	734	2388	2338	46	38	2434	2376
2	4,714	4,112	2,316	974	223	1732	1437	289	249	2021	1686
3	3,555	461	-	0	0	4682	1304	157	0	4839	1304
4	2,782	1,985	159	159	159	1908	786	1704	1154	3612	1940
5	2,167	1,035	1,035	168	0	204	119	58	49	262	168
6	1,783	1,594	1,594	175	0	220	149	33	26	253	175
7	2,313	-	-	0	0	414	0	132	0	546	0
8	1,278	116	116	65	60	416	65	88	60	504	125
WASA Subtotal	**20,183**	**10,871**	**5,954**	**2,275**	**1,176**	**11,964**	**6,198**	**2,507**	**1,576**	**14,471**	**7,774**
DDOT (via VMS) Subtotal				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**20,183**	**10,871**	**5,954**	**2,275**	**1,176**	**11,964**	**6,198**	**2,507**	**1,576**	**14,471**	**7,774**
% Cleaned/Inspected to Date				**38%**	**20%**					**72%**	**71%**

4.2 BMP Demonstration Projects

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

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

Table 4-2
BMP Demonstration Projects – Report

Facility	*Date Inspected*	*Condition*	*Work Needed*	*Work performed*	*Material Removed (CY)*
Netting System CSO 018	6/10/05 6/24/05	Good	None	Nets emptied.	300 lbs.
Bar Rack CSO 040	6/7/05	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	6/24/05	Good	None	Routine Cleaning	(1)

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

4.3 Anacostia River Floating Debris Removal Program

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

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

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	21
Days not Operating	5
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	6/7/05 to present
Reason	To replace left wing motor.
Plan to Restore to Service	asap
Volume Material Collected	50 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

4.4 CSS Litter Control

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

Status: no activities this month.

5. MONITORING

5.1 Visual Wet Weather Surveys at Main & O

WASA performs visual surveys of the CSO overflows at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharged. Results are as follows:

Table 5-1
CSO 010, 011, 011, 012 Visual Wet Weather Survey Summaries
SOLIDS AND FLOATABLES VISUAL SURVEY FORM

Date: **Inspector's Initials:**

CSO	Time of Observation	Overflow Observed		Observed Overflow Rate			Quantity of Floatables			Quantity of Man-Made			REMARKS/OTHER
		Y	N	L	M	H	L	M	H	L	M	H	
009													
010				NONE									
011													
011a													
012													

Note: L= Low, M= Moderate, H= High

5.2 Rain Data

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

Table 5-2 Rainfall Data (inches)

Date	Brentwood Reservoir	Bryant St PS	Main PS	Rock Creek PS	National Airport
6/1/2005	0	0	0	0	0
6/2/2005	0.01	0.01	0.01	0.01	0.04
6/3/2005	0.66	0.87	0.63	0.51	0.64
6/4/2005	0	0	0	0	0
6/5/2005	0	0	0	0	0
6/6/2005	0.48	0.58	0.59	0.52	1
6/7/2005	0.64	1.47	0.44	0.67	0.01
6/8/2005	0	0	0	0	0
6/9/2005	0	0	0	0	T
6/10/2005	0	0	0	0	0
6/11/2005	0	0	0	0	0
6/12/2005	0	0	0	0	0
6/13/2005	0	0	0.01	0.02	0.05
6/14/2005	0	0	0	0	0
6/15/2005	0	0	0	0	0
6/16/2005	0	0	0	0	T
6/17/2005	0	0	0	0.01	0
6/18/2005	0	0	0	0	0
6/19/2005	0	0	0	0	0
6/20/2005	0	0	0	0	0
6/21/2005	0	0	0	0	0
6/22/2005	0.05	0.09	0.03	0.04	0.03
6/23/2005	0	0	0	0	0
6/24/2005	0	0	0	0	0
6/25/2005	0	0	0	0	0
6/26/2005	0	0	0	0	0
6/27/2005	0.11	0.11	0.08	0	0.06
6/28/2005	0.01	0.01	0	0.01	0.01
6/29/2005	0.34	0.34	1.01	0.68	1.03
6/30/2005	0	0	0.01	0.01	0
Total	2.3	3.48	2.81	2.48	2.87

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: April, May, June 2005
SCENARIO: Q2_Y2005, 7-19-05

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
Anacostia CSOs							
005	Chicago St and Railroad Station SE	12	11.4	96.3	8.0	20.8	0.5
006	Good Hope Road, West of Nichols Ave.,SE	4	0.1	3.0	0.8	1.0	0.5
007	13th Street and Ridge Place,SE	11	29.6	84.3	7.7	18.3	1.8
009	2nd Street, 300 feet North of N Place, SE	10	9.0	47.0	4.7	12.8	1.3
010	O Street SewagePumping Station, SE (pumped Overflow)	8	258.5	25.0	3.1	8.3	0.5
011	South of Main Sewage Pumping Station, SE (pumped overflow)	0	0.0	0.0	0.0	0.0	0.0
011a	South of Main SewagePumping Station, SE (gravity overflow)	0	0.0	0.0	0.0	0.0	0.0
012	North of Main SewagePumping Station, SE (Tiber Creek)	4	19.8	3.8	0.9	1.5	0.5
013	4th and N Streets, SE	10	6.3	32.0	3.2	9.5	0.8
014	6th and M Streets, SE	11	26.3	67.3	6.1	17.3	1.3
015	9th and M Streets, SE	10	1.3	17.5	1.8	8.0	0.3
016	12th and M Streets, SE	10	11.4	24.8	2.5	8.5	0.8
017	14th and M Streets, SE	10	16.5	29.8	3.0	9.0	1.0
018	Barney Circle andPennsylvania Ave, SE	10	5.2	37.0	3.7	10.3	1.0
019	Northeast Boundary - Swirl Effluent	10	467.7	79.3	7.9	21.0	1.8
019	Northeast Bound. - Swirl Bypass	6	108.3	16.5	2.8	7.8	0.8
	SUBTOTAL		**971**				
Potomac CSOs							
003	Bolling AFB	0	0.0	0.0	0.0	0.0	0.0
020	23rd Street, North ofConstitution Ave, NW (Easby Point)	5	44.6	15.3	3.1	7.3	1.0
021	Northeast ofRoosevelt Bridge, NW	10	407.2	48.3	4.8	13.5	1.0
022	27th and K Streets, NW	10	43.4	43.5	4.4	11.8	0.5
024	30th and K Streets, NW	9	58.4	46.5	5.2	17.0	0.8
025	31st & K St NW	5	0.2	8.3	1.7	2.8	1.0
026	Wisconsin Avenue andK St., NW	0	0.0	0.0	0.0	0.0	0.0
027	Water Street West ofStreet, NW	11	32.5	102.0	9.3	22.5	2.5
028	36th and M Streets, NW	5	0.9	12.5	2.5	5.8	1.0
029	Canal Road 1000 feet east of Rock Creek,NW	11	22.7	71.0	6.5	17.8	1.8
	SUBTOTAL		**610**				
Rock Creek							
031	Pennsylvania Avenue, East Rock Creek, NW	5	0.3	17.8	3.6	7.3	1.3
032	26th and M Streets, NW	0	0.0	0.0	0.0	0.0	0.0
033	N Street extendedwest of 25th Street,NW	5	5.8	7.3	1.5	3.0	0.3
034	23rd and O Streets, SW	0	0.0	0.0	0.0	0.0	0.0
035	22nd Street south of Q Street, NW	1	0.5	0.3	0.3	0.3	0.3
036	22nd Street South of Q Street, NW	11	1.9	38.8	3.5	10.5	0.5
037	Northwest of Belmontand Rock Creek and Potomac Parkway	3	0.1	3.3	1.1	1.5	0.8
038	North of Belmont Road,east of Kalorama Circle, NW	0	0.0	0.0	0.0	0.0	0.0
039	Connecticut Avenue east of Rock Creek, NW	1	0.1	0.5	0.5	0.5	0.5
040	Biltmore Street extended east of RockCreek, NW	2	0.1	1.0	0.5	0.8	0.3
041	Ontario extended and Rock Creek Parkway	0	0.0	0.0	0.0	0.0	0.0

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: April, May, June 2005
SCENARIO: Q2_Y2005, 7-19-05

NPDES No.	Description	Number of Overflows (Occurrences)	CSO Overflow Volume (mg)	Total Duration of Overflow (hrs)	Avg Duration of Overflow (hrs)	Maximum Duration of Overflow (hrs)	Minimum Duration of Overflow (hrs)
042	Harvard Street and RockCreek Parkway, NW	1	0.0	0.3	0.3	0.3	0.3
043	Adams Mill Road South of Irving Street, NW	2	0.6	1.0	0.5	0.8	0.3
044	Kenyon Street and Adams Mill Road, NW	1	0.1	0.5	0.5	0.5	0.5
045	Adams Mill Road and Lamont Street, NW	2	0.1	1.8	0.9	1.0	0.8
046	Park Road south of Piney Branch Parkway, NW	1	0.0	1.0	1.0	1.0	1.0
047	Ingleside Terrace extended and Piney Branch Parkway	2	0.6	1.8	0.9	1.0	0.8
048	Mt. Pleasant Street extended and Piney Branch Parkway	2	0.3	1.8	0.9	1.0	0.8
049	Piney Branch and LamontStreet, NW	10	51.2	29.8	3.0	9.0	0.8
050	28th Street west of 16th Street, NW	0	0.0	0.0	0.0	0.0	0.0
051	Olive Street extended and Rock Creek Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
052	O Street extended and Rock Creek Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
053	O Street west of Rock Creek Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
054	West Side of Rock Creek300 ft. south of Mass. Ave, NW	0	0.0	0.0	0.0	0.0	0.0
056	Normanstone Drive extended west of Rock Creek, NW	0	0.0	0.0	0.0	0.0	0.0
057	28th Street extended west of Rock Creek, NW	5	3.2	12.3	2.5	5.5	1.0
058	Connecticut Avenue and Rock Creek Parkway, NW	1	0.0	1.0	1.0	1.0	1.0
060	P St and 26th St, NW	0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL		**65**				
	TOTAL		**1,646**				

C:\Documents and Settings\jcassidy\Local Settings\Temporary Internet Files\OLK64E\[Q2Y2005 Report 7-19-05.xls]formatted

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