QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

FOURTH 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: October 2005

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D.C. Water and Sewer Authority Department of Sewer Services Washington, D.C. 20003 DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Washington, D.C.

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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

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/03/05	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/03/05	*			
5	Poplar Point Pumping Station	004	10/20/05	*			
6	Chicago Street and Railroad Ave, SE	005	10/12/05	*			
7	W Street and Railroad Ave, SE	005	10/12/05	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	10/12/05	*			
9	13 th Street and Ridge Place, SE	007	10/13/05	*			
11	"O" Street Pumping Station	011(a)	10/20/05	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/20/05	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/03/05	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/20/05	*			
15	South Capitol and E Streets	010	10/20/05	*			
15a	Half and L Streets, SE	010	10/20/05	*			
15b	South Capitol and I Streets	010	10/17/05	*			
15c	South Capitol and I Streets	010	10/17/05	*			
16	North of Main Sewage Pumping Station	012	10/20/05	*			
17	4 th and N Streets, SE, Both Extended	013	10/07/05	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	10/31/05	*			
18	6 th and M Streets, SE	014	10/05/05	*			
19	9 th and M Streets, SE	015	10/05/05	*			
19a	9 th and M Streets, SE	015	10/05/05	*			
20	12 th and M Streets, SE	016	10/06/05	*			
20a	12 th and M Streets, SE	016	10/06/05	*			
21	14 th and M Streets, SE	017	10/13/05	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	10/05/05	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
22b	Barney Circle and Pennsylvania Ave, SE	018	10/05/05	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/05/05	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/05/05	*			
22e	14 th Street and Kentucky Ave, SE	018	10/05/05	*			
23	Independence Ave, 21 st Street, SE, Extended	019	10/21/05	*			
24a	East Capitol St, west of RFK stadium	019	10/06/05	*			
28	21 st and Constitution Ave, NW	020	10/24/05	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/24/05	*			
30	17 th and D Streets, NW	020	10/18/05	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/18/05	*			
33	10 th and F Streets, NW	020	10/12/05	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/20/05	*			
34a	23 rd Street near C Street, NW	020	10/24/05	*			
35	Northeast of Roosevelt Bridge, NW	021	10/20/05	*			
36	27 th and I Streets, NW	022	10/18/05	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/21/05	*			
36b	19 th and L Streets, NW	022, 034	10/14/05	*			
36d	17 th and L Streets, NW	022, 034	10/14/05	*			
36g	18 th and M Streets, NW	022, 034	10/14/05	*			
36h	18 th and M Streets, NW	022, 034	10/14/05	*			
37	27 th and Eye Streets, NW	022	10/21/05	*			
38	29 th and K Streets, NW	024	10/03/05	*			
38a	30 th Street, south of K Street, NW	024	10/03/05	*			
39a	30 th and K Streets, NW	024	10/03/05	*			
39b	30 th and K Streets, NW	024	10/03/05	*			
41b	31 st and K Streets, NW	025	10/21/05	*			
41c	31 st and K Streets, NW	025	10/21/05	*			
42	Wisconsin Ave and K Street, NW	026	10/24/05	*			

		Associated NPDES	Data	(Condition		
Struct No.	Location	Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	10/21/05	*			
43a	Potomac and Water Streets, NW	027	10/21/05	*			
44	Water Street, west of Potomac St, NW	027	10/21/05	*			
45	36 th and M Streets, NW	028	10/21/05	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/17/05	*			
47	38 th Street and Reservoir Road, NW	029	10/17/05	*			
47a	37 th and T Streets, NW	029	10/17/05	*			
47b	37 th and T Streets, NW	029	10/17/05	*			
47c	38 th and W Streets, NW	029	10/17/05	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	10/18/05	*			
50	26 and M Streets, NW	032	10/18/05	*			
51	N Street Extended, west of 25 th Street, NW	033	10/31/05	*			
52	22 nd Street between M and N Streets, NW	034	10/18/05	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	10/18/05	*			
53	22 nd and M Streets, NW	022, 034	10/31/05	*			
53a	22 nd and M Streets, NW	022, 034	10/31/05	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	10/31/05	*			
53c	L and 22 nd Streets, NW	022	10/31/05	*			
54	23 rd and O Streets, NW	034	10/26/05	*			
55	22 nd Street, south of Q Street, NW	035	10/26/05	*			
55a	22 nd Street, south of Q Street, NW	035	10/26/05	*			
56	23 rd and Massachusetts Ave, NW	036	10/26/05	*			
57	23 rd Street, south of Q Street, NW	036	10/26/05	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	10/27/05	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/27/05	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/12/05	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/12/05	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/12/05	*			

		Associated NPDES	Date	(Condition		
Struct No.	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	042	10/12/05	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/14/05	*			
65	Kenyon Street and Adams Mill Road, NW	044	10/12/05	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/14/05	*			
66	Adams Mill Road and Lamont Street, NW	045	10/12/05	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	10/12/05	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/14/05	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/14/05	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/14/05	*			
70i	5 th and Quackenbos Streets, NW	049	10/06/05	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/21/05	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/26/05	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/26/05	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/26/05	*			
74	Q Street, west of Rock Creek, NW	053	10/26/05	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/27/05	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	10/27/05	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	10/06/05	*			
78	28th Street Extended, west of Rock Creek, NW	057	10/27/05	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	10/04/05	*			
84	26 th and P Streets, NW	060	10/26/05	*			
84a	26 th and P Streets, NW	060	10/26/05	*			

- 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.

				2 4 11		<i>a</i>		~			
				Dutfall		Gate	Tide G				
NDDEC				ondition	Pres	ent?	Condit	1	(CSO Sign	
NPDES Outfall	Location	Date Inspected		Needs				Needs			Notes, Work Needed or Performed
5		Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, work Needed or Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	10/03/05	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
	Ave., SE	10/06/05	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	10/06/05	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	10/06/05	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/31/05	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/31/05	*			*			*		
011	Main Sewage Pumping Station, SE	10/31/05	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/31/05	*		*		*		*		
	Main Sewage Pumping Station, SE										
012		10/31/05	*		*		*		*		
	Southeast Federal Center, aligned with 4 th St.	10/07/05	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	10/13/05	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/13/05	*			*			*		
016	12th and O Streets, SE	10/13/05	*		*		*		*		
017	M and Water Street, SE	10/13/05	*		*		*		*		
	East of Barney Circle and South of										
018	Pennsylvania Avenue Bridge, SE	10/13/05	*		*		*		*		
	Adjacent to Service Drive behind swirl facility										
019	and D.C. General Hospital	10/06/05	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/31/05	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/31/05	*			*			*		
022	Rock Creek Parkway and G St., NW	10/31/05	*		*		*		*		

 Table 2 - Outfalls and Tide Gates

				Outfall ondition		Gate sent?	Tide C Condi	tion		CSO Sign	
NPDES Outfall	Location	Date Inspected	ОК	Needs Work	Yes	No	OK	Needs Work		Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	10/27/05	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
-	Courth of 21st and K Streats NW		*		*		*	.,.	*		performance.
025	South of 31st and K Streets, NW	10/27/05	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	10/27/05	_		*		*				
027	33 rd and Water Sts., NW	10/27/05	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/27/05	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	10/27/05	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	10/18/05	*			*			*		
032	26th and M Street, NW.	10/18/05	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/31/05	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/03/05	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/26/05	*		*		*		*		
036	22nd Street, South of Q Street NW.	10/27/05	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	10/27/05	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	10/27/05	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/12/05	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	10/12/05	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	10/12/05	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/13/05	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/13/05	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/13/05	*		*		*		*		

				Outfall ondition		Gate sent?	Tide C Condi			CSO Sign	
NPDES		Date		Needs	TTes	seni :	Conui	Needs		CSO Sign	
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work		Needs Work	Notes, Work Needed or Performed
045	North of Beach Dr. and Walbridge Pl, NW.	10/13/05	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	10/14/05	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	10/14/05	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	10/14/05	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/14/05	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/21/05	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		10/06/05									
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	10/06/05	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	10/27/05	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	10/27/05	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	10/27/05	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	10/27/05	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	10/04/05	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	10/27/05	*		*		*		*		

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.

	Pumping Stations – Inspections and Equipment in Service										
Pumping	No. of	No.	No.	Screens or Pumps							
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service				
Main	31	4	12	None							
Eastside	31	2	4	None							
Poplar Point	31	2^{1}	3	None							
Potomac	31	4	5	None							

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

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.

Pumping Stations – Preventive Maintenance										
		Type of Preventive Maintenance								
Pumping Station	Date Performed	Performed ¹	Comments							
Main	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							
O St	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							
Eastside	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							
Poplar Point	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							
Potomac	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							
Rock Creek	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							
Upper Anacostia	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							
Earle Place	10/25/05	Group A	Add oil, grease bearings and replace packing if needed.							

 Table 2-4

 Pumping Stations – Preventive Maintenance

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

	Sanitary	Pumpage		Storm Water/CSO Pumped To Anacostia River					
	Total	Daily Average			Screenings Collected				
Pumping Station	Wastewater (mg)	Wastewater (mg)	Date	Volume (mg)	(units)				
Main	2,730.70	88.09	N/A	N/A	N/A				
O St ¹	219.20	7.07	10/07/05	98 MG	Normal				
			10/08/05	207 MG					
			10/24/05	7.6 MG					
			10/25/05	29 MG					
Eastside	184.80	5.96	N/A	N/A	N/A				
Poplar Point	534.30	17.24	N/A	N/A	N/A				
Potomac	5,841.90	188.45	N/A	N/A	N/A				
Rock Creek	331.20	10.68	N/A	N/A	N/A				
Upper Anacostia	62.70	2.62	N/A	N/A	N/A				
Earle Place	0.46	0.01	N/A	N/A	N/A				

Table 2-5Pumping Stations – Pumpage

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

2-4 Northeast Boundary Swirl Facility

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

		THUI LINEAS	st Doulluar y Swift	i Facility -	= mspections and Eq	
Date	#		Screens or Swirls			
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service
10/19/05	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
10/19/05	Group A	

 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

	Approx. Storm	•	•		Approx. Screenings
	Duration ¹	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
10/07/05	5	20.15	5.50	14.65	0.45(36)
10/7/05	6	49.30	6.80	42.50	0.75(60)
10/8/05	8	34.92	7.05	27.87	0.55(44)
10/08/05	8	5.74	4.05	1.7	0.20(16)
10/08/05	8	1.72	0.822	0.90	0.15(12)
10/21/05	3	1.79	1.79	0	0.60(48)
10/22/05	6	10.53	10.53	0	0.15(12)
10/24/05	8	5.07	2.75	2.32	0.40(32)
10/25/05	8	7.58	4.57	3.01	0.40(32)
10/25/05	8	7.58	7.58	0	0.15(12)

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

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.

	Chlor/			Residual Chlori	·				
		D			ne rest				
	Dechl	Do	sages	Results		Enterococcus Test Results		Fecal Coliform T	est Results
	or								
	Syste						Count		Count
	m	NaOCl	NaHSO ₃		Conc.		Per		Per
Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(mg/l)	Site	100ml	Site	100ml
10/07/05	Yes	5	2	Mix Chamber	0.3	Mix Chamber	26,400	Mix Chamber	47,000
10/07/05	Yes	5	2	Anacostia River	0.1	Anacostia River	26,000	Anacostia River	42,000
10/07/05	Yes	5	2	Mix Chamber	0.1	Mix Chamber	22,000	Mix Chamber	41,000
10/07/05	Yes	5	2	Anacostia River	0.3	Anacostia River	19,090	Anacostia River	49,000
10/08/05	Yes	5	2	Mix Chamber	0.5	Mix Chamber	20,000	Mix Chamber	70,000
10/08/05	Yes	5	2	Anacostia River	0.0	Anacostia River	25,000	Anacostia River	100,000
10/08/05	Yes	5	2	Mix Chamber	0.2	Mix Chamber	13,600	Mix Chamber	27,000
10/08/05	Yes	5	2	Anacostia River	0.0	Anacostia River	17,300	Anacostia River	40,000
10/08/05	Yes	5	2	Mix Chamber	0.2	Mix Chamber	14,500	Mix Chamber	12,700
10/08/05	Yes	5	2	Anacostia River	0.0	Anacostia River	50,000	Anacostia River	50,000
10/24/05	Yes	5	2	Mix Chamber	0.7	Mix Chamber	31,000	Mix Chamber	40,000
10/24/05	Yes	5	2	Anacostia River	0.2	Anacostia River	35,000	Anacostia River	48,000
10/25/05	Yes	5	2	Mix Chamber	0.2	Mix Chamber	13,600	Mix Chamber	90,000
10/25/05	Yes	5	2	Anacostia River	0.0	Anacostia River	23,000	Anacostia River	170,000

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

<u>Notes:</u> 1. Mix Chr.: Mixing Chamber

River: River Outfall 2.

 Table 2-10

 Northeast Boundary Swirl Facility – Effluent Sampling Results

		Flow Composite Sample Results											
		Nitrite	Nitrate	Total Kjeldahl		Total	Carbonaceous						
	Total suspended	(NO2-N)	(NO3-N))	Nitrogen	Total Nitrogen	Phosphorus	Biological Oxygen						
Date	solids (mg/L)	mg/L	mg/L	(mg/L as N)	(mg/L)	(mg/L)	Demand (mg/L)						
10/07/05	94.0	0.12	0.50	1.56	2.18	0.43	18.8						
10/08/05	34.0	0.05	0.77	0.95	1.77	0.42	21.2						
10/24/05	53.0	0.09	0.65	4.86	5.60	0.83	32.0						
10/25/05	47.0	0.07	0.86	4.99	5.92	0.58	26.8						

October 2005

Notes:

Effluent samples taken every two hours and flow composited for a maximum of 24 hours per storm.

2.5 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:

Inflatable Dam		Was Dam Out of Service			Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	10/20/05	No	N/A	N/A	N/A
14 - West	10/20/05	No	N/A	N/A	N/A
15	10/20/05	No	N/A	N/A	N/A
15A	10/20/05	No	N/A	N/A	N/A
16 - East	10/20/05	No	N/A	N/A	N/A
16 - West	10/20/05	No	N/A	N/A	N/A
24 - North	10/20/05	No	N/A	N/A	N/A
24 - Middle	10/20/05	No	N/A	N/A	N/A
24 - South	10/20/05	No	N/A	N/A	N/A
34	10/20/05	No	N/A	N/A	N/A
35	10/20/05	No	N/A	N/A	N/A
52	10/20/05	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	10/07/05	0:39
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

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

 Dry Weather Overflows

 Location:
 Location:

 Cause
 Cause

 Date/Time Discovered
 NO DRY WEATHER OVERFLOW IN

 Action Taken
 OCTOBER

 Date/Time Discharge Ceased
 OCTOBER

 Estimated Volume (mg)
 Did Overflow Reach Receiving water?

 Action taken to prevent reoccurrence
 Kease State Sta

Table 3-1 Dry Weather Overflows

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 Dasin Summaries													
				Inspe	ections			Clea	ning	1			
Ward	Total CBs	CBs in CSS	CBs in Anacostia CSS	Total CBs Inspected Once this Year	Total CBs Inspected Twice this Year	CBs Cleaned Thru Last Month Total In CSS		CB's Cleaned this Month Total In CSS		Total CBs Cleaned This Year to Date Total In CSS			
<i></i>	Total CD5	000	000	1601	Teur	10141	III CSS	Total	III CSS	Total	III CSS		
1	1,591	1,568	734	734	734	2571	2495	25	20	2596	2515		
2	4,714	4,112	2,316	1818	1352	2871	2420	422	392	3293	2812		
3	3,555	461	-	0	0	5162	1319	21	0	5183	1319		
4	2,782	1,985	159	159	159	4493	2417	7	2	4500	2419		
5	2,167	1,035	1,035	1035	1035	2776	1323	168	168	2944	1491		
6	1,783	1,594	1,594	1594	1594	1468	1206	789	542	2257	1748		
7	2,313	-	-	0	0	925	0	122	0	1047	0		
8	1,278	116	116	116	116	685	215	448	149	1133	364		
WASA Subtotal	20,183	10,871	5,954	5,456	4,990	20,951	11,395	2,002	1,273	22,953	12,668		
DDOT (via VMS) Subtotal				0	0	0	0	0	0	0	0		
Grand Total	20,183	10,871	5,954	5,456	4,990	20,951	11,395	2,002	1,122	22,953	12,668		
% Cleaned/Inspected to Date				92%	84%					>100%	>100%		

Table 4-1 Catch Basin Summaries

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 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	10/12/05	Good	Minor	Nets changed.	Right Net – 290 lb.
	10/27/05		Maintenance		Left Net - 350 lb.
Bar Rack CSO 040	10/12/05	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	10/12/05	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:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	2
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	8/17/05 to present
Reason	Skimmer was removed from the water for comprehensive PM.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	70 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

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: DC WASA sent correspondence to the Department of Public Works and US National Park Service requesting the identification of a contact person to help with the coordination of each agency's activities.

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:

			Date: 1	0/08/0		Inspector's Initials: VB							
		Ove	rflow	0	Observed			antity	of	Qua	ntity o	of	
CSO	Time of Observa tion	Y	N	L	М	Н	L	М	Н	L	М	Н	REMARKS/OTHER
	2.00	Х			Х								None
009													
010	2.00	X			Х								None
011	2:00	Х			Х								None
011a													
010													

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

		[Date:1	0/08/0		Inspector's Initials: VB							
		Ove	rflow	Observed			Qu	Quantity of			ntity c	of	
CSO	Time of Observa tion	Y	N	L	м	н	L	М	н	L	М	н	REMARKS/OTHER
	7.00	Х			Х								None
009													
010	7.00	X			X								None
	7:00	Х			Х								None
011													
011a													
••••													
010													

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 5-2Rainfall Data (inches)

Table 5-2		all Data (inches)			0 1 50		
Date	В	rentwood Reservoir Bryant St PS	Ma	in PS Rock C	reek PS		
10/	1/2005	0	0	0	0		
10/	2/2005	0	0	0	0		
10/	3/2005	0	0	0	0		
10/	4/2005	0	0	0	0		
10/	5/2005	0	0	0	0		
10/	6/2005	0	0.01	0	0.01		
10/	7/2005	2.99	2.96	0.83	3.11		
10/	8/2005	3.74	3.57	0.14	3.57		
10/	9/2005	0	0	0.03	0		
10/1	0/2005	0	0	0.02	0		
10/1	1/2005	0.06	0.08	0.01	0.09		
10/1	2/2005	0	0.01	0.01	0		
10/1	3/2005	0.23	0.28	0.03	0.1		
10/1	4/2005	0	0	0.01	0		
10/1	5/2005	0	0	0	0		
10/1	6/2005	0	0	0	0		
10/1	7/2005	0	0	0	0		
10/1	8/2005	0	0	0	0		
10/1	9/2005	0	0	0	0		
10/2	0/2005	0	0	0	0		
10/2	1/2005	0.19	0.19	0.04	0.04		
10/2	2/2005	0.6	0.62	0.52	0.52		
	3/2005	0	0	0	0		
	4/2005	0.41	0.43	0.4	0.4		
10/2	5/2005	0.75	0.75	0.6	0.6		
10/2	6/2005	0.01	0.02	0.01	0.01		
10/2	7/2005	0	0	0	0		
10/2	8/2005	0	0	0	0		
	9/2005	0	0	0	0		
	0/2005	0	0	0	0		
10/3	1/2005	0	0	0	0		
Total		8.98	8.92	2.65	8.45		



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

Monthly Operations Report For Combined Sewer System Month: November 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: November 2005

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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.

Tabl	le 2-1
Regulator	Structures

		Associated NPDES	Data	(Condition		
Struct No.	Location	Associated NFDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/17/05	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/17/05	*			
5	Poplar Point Pumping Station	004	11/10/05	*			
6	Chicago Street and Railroad Ave, SE	005	11/02/05	*			
7	W Street and Railroad Ave, SE	005	11/02/05	*			
8	Good Hope Rd, west of Nichols Ave, SE	006	11/02/05	*			
9	13 th Street and Ridge Place, SE	007	11/01/05	*			
11	"O" Street Pumping Station	011(a)	11/10/05	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/10/05	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/07/05	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/10/05	*			
15	South Capitol and E Streets	010	11/10/05	*			
15a	Half and L Streets, SE	010	11/10/05	*			
15b	South Capitol and I Streets	010	11/09/05	*			
15c	South Capitol and I Streets	010	11/09/05	*			
16	North of Main Sewage Pumping Station	012	11/10/05	*			
17	4 th and N Streets, SE, Both Extended	013	11/09/05	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	11/29/05	*			
18	6 th and M Streets, SE	014	11/01/05	*			
19	9 th and M Streets, SE	015	11/01/05	*			
19a	9 th and M Streets, SE	015	11/01/05	*			
20	12 th and M Streets, SE	016	11/01/05	*			
20a	12 th and M Streets, SE	016	11/01/05	*			
21	14 th and M Streets, SE	017	11/01/05	*			
22a	Barney Circle and Pennsylvania Ave, SE	018	11/08/05	*			

	Location	A appointed NDDES		(Condition	Work Needed	Work performed
Struct No.		Associated NPDES Outfall	Date Inspected	Good	Needs Work		
22b	Barney Circle and Pennsylvania Ave, SE	018	11/08/05	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/08/05	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/07/05	*			
22e	14 th Street and Kentucky Ave, SE	018	11/07/05	*			
23	Independence Ave, 21 st Street, SE, Extended	019	11/15/05	*			
24a	East Capitol St, west of RFK stadium	019	11/29/05	*			
28	21 st and Constitution Ave, NW	020	11/18/05	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/18/05	*			
30	17 th and D Streets, NW	020	11/08/05	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/08/05	*			
33	10 th and F Streets, NW	020	11/08/05	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/10/05	*			
34a	23 rd Street near C Street, NW	020	11/18/05	*			
35	Northeast of Roosevelt Bridge, NW	021	11/10/05	*			
36	27 th and I Streets, NW	022	11/09/05	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/18/05	*			
36b	19 th and L Streets, NW	022, 034	11/17/05	*			
36d	17 th and L Streets, NW	022, 034	11/17/05	*			
36g	18 th and M Streets, NW	022, 034	11/17/05	*			
36h	18 th and M Streets, NW	022, 034	11/17/05	*			
37	27 th and Eye Streets, NW	022	11/09/05	*			
38	29 th and K Streets, NW	024	11/07/05	*			
38a	30 th Street, south of K Street, NW	024	11/07/05	*			
39a	30 th and K Streets, NW	024	11/07/05	*			
39b	30 th and K Streets, NW	024	11/07/05	*			
41b	31 st and K Streets, NW	025	11/07/05	*			
41c	31 st and K Streets, NW	025	11/07/05	*			
42	Wisconsin Ave and K Street, NW	026	11/09/05	*			

Struct No.				0	Condition	Work Needed	Work performed
	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work		
43	Potomac and Water Streets, NW	027	11/16/05	*			
43a	Potomac and Water Streets, NW	027	11/16/05	*			
44	Water Street, west of Potomac St, NW	027	11/16/05	*			
45	36 th and M Streets, NW	028	11/17/05	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/01/05	*			
47	38 th Street and Reservoir Road, NW	029	11/01/05	*			
47a	37 th and T Streets, NW	029	11/01/05	*			
47b	37 th and T Streets, NW	029	11/01/05	*			
47c	38 th and W Streets, NW	029	11/01/05	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	11/18/05	*			
50	26 and M Streets, NW	032	11/15/05	*			
51	N Street Extended, west of 25 th Street, NW	033	11/15/05	*			
52	22 nd Street between M and N Streets, NW	034	11/23/05	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	11/23/05	*			
53	22 nd and M Streets, NW	022, 034	11/23/05	*			
53a	22 nd and M Streets, NW	022, 034	11/23/05	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	11/18/05	*			
53c	L and 22 nd Streets, NW	022	11/18/05	*			
54	23 rd and O Streets, NW	034	11/08/05	*			
55	22 nd Street, south of Q Street, NW	035	11/21/05	*			
55a	22 nd Street, south of Q Street, NW	035	11/21/05	*			
56	23 rd and Massachusetts Ave, NW	036	11/21/05	*			
57	23 rd Street, south of Q Street, NW	036	11/21/05	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	11/21/05	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/21/05	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/17/05	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/17/05	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/17/05	*			

			Dirta	(Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
63	Harvard Street and Rock Creek Parkway, NW	042	11/04/05	*			
64	Adams Mill Road, south of Irving Street, NW	043	11/04/05	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/04/05	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/04/05	*			
66	Adams Mill Road and Lamont Street, NW	045	11/04/05	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	11/04/05	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/04/05	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/04/05	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/04/05	*			
70i	5 th and Quackenbos Streets, NW	049	11/16/05	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	11/18/05	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/08/05	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/08/05	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/08/05	*			
74	Q Street, west of Rock Creek, NW	053	11/21/05	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/28/05	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	11/28/05	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	11/15/05	*			
78	28th Street Extended, west of Rock Creek, NW	057	11/28/05	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	11/01/05	*			
84	26 th and P Streets, NW	060	11/08/05	*			
84a	26 th and P Streets, NW	060	11/08/05	*			

- 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.

				Dutfall		Gate	Tide Gate				
		_	Ca	ondition	Pres	ent?	Condi	1		CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	11/17/05	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
005	Ave., SE	11/29/05	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	11/29/05	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	11/29/05	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/04/05	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/29/05	*			*			*		
011	Main Sewage Pumping Station, SE	11/29/05	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/29/05	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/29/05	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	11/09/05	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	11/09/05	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/09/05	*			*			*		
016	12th and O Streets, SE	11/29/05	*		*		*		*		
017	M and Water Street, SE	11/29/05	*		*		*		*		
	East of Barney Circle and South of										
018	Pennsylvania Avenue Bridge, SE	11/29/05	*		*		*		*		
	Adjacent to Service Drive behind swirl facility										
019	and D.C. General Hospital	11/29/05	*			*			*		
020	Rock Creek Parkway and Independence, NW	11/29/05	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/28/05	*			*			*		
022	Rock Creek Parkway and G St., NW	11/28/05	*		*		*		*		

 Table 2 - Outfalls and Tide Gates

				Outfall ondition		Gate sent?	Tide C Condi	tion		CSO Sign	
NPDES Outfall	Location	Date Inspected	ОК	Needs Work	Yes	No	OK	Needs Work		Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	11/28/05	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
-	South of 31st and K Streets, NW	11/28/05	*		*		*		*		performance.
025 026	Wisconsin Avenue and Water Street, NW	11/28/05	*		*		*		*		
026	33 rd and Water Sts., NW	11/28/05	*		*	*			*		
		11/28/05	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW Adjacent to C&O Canal, aligned with 38 th St.	11/28/05	*			*			*		
029	NW	11/28/05	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	11/18/05	*			*			*		
032	26th and M Street, NW.	11/29/05	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/29/05	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/08/05	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/08/05	*		*		*		*		
036	22nd Street, South of Q Street NW.	11/23/05	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	11/21/05	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	11/21/05	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/17/05	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	11/17/05	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	11/17/05	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/17/05	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/17/05	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/17/05	*		*		*		*		

				Outfall ondition		Gate sent?	Tide C Condi			CSO Sign	
NPDES		Date		Needs	Fies	sent?	Conui	Needs		CSO Sign	
Outfall	Location	Inspected	OK	Work	Yes	No	ОК	Work		Needs Work	Notes, Work Needed or Performed
045	North of Beach Dr. and Walbridge Pl, NW.	11/17/05	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	11/04/05	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/04/05	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	11/04/05	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/04/05	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/18/05	*		*		*		*		
051	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		11/03/05									
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	11/03/05	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	11/23/05	*		*		*		*		
054	Massachusetts Avenue and Rock Creek Parkway, NW.	11/28/05	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	11/28/05	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	11/28/05	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	11/17/05	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	11/23/05	*		*		*		*		

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.

				Pumping Station	ıs – Insp	ections and Equipment in Service	
Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service
Main	30	4	12	None			
Eastside	30	2	4	None			
Poplar Point	30	2^{1}	3	None			
Potomac	30	4	5	None			

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

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.

		Pumping Stations – Preventr	ve Maintenance
		Type of Preventive Maintenance	
Pumping Station	Date Performed	Performed ¹	Comments
Main	11/21/05	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/21/05	Group A	Add oil, grease bearings and replace packing if needed.
Eastside	11/16/05	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/18/05	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/18/05	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/18/05	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/21/05	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/18/05	Group A	Add oil, grease bearings and replace packing if needed.

 Table 2-4

 Pumping Stations – Preventive Maintenance

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

		I umping biu	uons – 1 umpa	5	
	Sanitary .	Pumpage	Storm V	Vater/CSO Pumped To	Anacostia River
	Total	Daily Average			Screenings Collected
Pumping Station	Wastewater (mg)	Wastewater (mg)	Date	Volume (mg)	(units)
Main	2,373.50	79.12	N/A	N/A	N/A
O St ¹	185.30	6.18	N/A	None	Normal
Eastside	152.40	5.08	N/A	N/A	N/A
Poplar Point	408.10	13.60	N/A	N/A	N/A
Potomac	5,113.30	170.44	N/A	N/A	N/A
Rock Creek	208.00	6.93	N/A	N/A	N/A
Upper Anacostia	53.50	1.73	N/A	N/A	N/A
Earle Place	0.37	0.01	N/A	N/A	N/A

Table 2-5Pumping Stations – Pumpage

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

2-4 Northeast Boundary Swirl Facility

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

	Northeast Doundary Swift Facility – inspections and Equipment in Service								
Date	#		Screens or Swirls						
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service			
11/21/05	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a			

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
11/22/05	Group A	

 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

	Approx. Storm				Approx. Screenings
	$Duration^{1}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
11/16/05	8	11.75	7.08	4.67	0.50(40)
11/21/05	8	9.69	2.43	7.262	0.50(40)
11/22/05	4	2.91	2.91	0	0.25(20)
11/30/05	10	8.81	8.81	0	0.80(64)

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

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.

_				1101011	ast Doundary Dwin		Distinction 1 ci loi n			
		Chlor/			Residual Chlorin	ne Test				
		Dechl	Do	sages	Results		Enterococcus Test Results		Fecal Coliform Test Results	
		or								
		Syste						Count		Count
		т	NaOCl	NaHSO3		Conc.		Per		Per
	Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	Site	100ml
	11/16/05	Yes	5	2	Mix Chamber	0.7	Mix Chamber	43,000	Mix Chamber	120,000
	11/16/05	Yes	5	2	Anacostia River	0.0	Anacostia River	38,000	Anacostia River	160,000
	11/21/05	Yes	5	2	Mix Chamber	0.9	Mix Chamber	28,000	Mix Chamber	27,000
	11/21/05	Yes	5	2	Anacostia River	0.0	Anacostia River	25,000	Anacostia River	37,000

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

<u>Notes:</u> 1. Mix Chr.: Mixing Chamber

River: River Outfall 2.

Table 2-10 Northeast Boundary Swirl Facility – Effluent Sampling Results November 2005

Date	Flow Composite San	Flow Composite 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)		
11/16/05	47.0	0.11	0.67	7.68	8.46	0.61	41.0		
11/21/05	90.0	< 0.05	0.61	3.93	4.54	0.63	29.3		

Notes: Effluent samples taken every two hours and flow composited for a maximum of 24 hours per storm.

2.5 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:

Inflatable Dam		Was Dam Out of Service			Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	11/24/05	No	N/A	N/A	N/A
14 - West	11/24/05	No	N/A	N/A	N/A
15	11/24/05	No	N/A	N/A	N/A
15A	11/24/05	No	N/A	N/A	N/A
16 - East	11/24/05	No	N/A	N/A	N/A
16 - West	11/24/05	No	N/A	N/A	N/A
24 - North	11/24/05	No	N/A	N/A	N/A
24 - Middle	11/24/05	No	N/A	N/A	N/A
24 - South	11/24/05	No	N/A	N/A	N/A
34	11/24/05	No	N/A	N/A	N/A
35	11/24/05	No	N/A	N/A	N/A
52	11/24/05	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

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

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Dry Weather OverflowsLocation:CauseCauseDate/Time DiscoveredAction TakenDate/Time Discharge CeasedEstimated Volume (mg)Did Overflow Reach Receiving water?Action taken to prevent reoccurrence

Table 3-1 Dry Weather Overflows

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:

			1 a.	te +-1 Catel	i dasin Suim	narics							
				Inspe	ections	Cleaning							
Ward	Total CBs	CBs in CSS	CBs in Anacostia CSS	Total CBs Inspected Once this Year	Total CBs Inspected Twice this Year	CBs Clea Last I Total	ned Thru Month In CSS		eaned this onth In CSS		s Cleaned tr to Date In CSS		
, wara	Total CDS	000	CDD	Teur	Teur	Total	III CSS	Total	111 C22	Total	III CSS		
1	1,591	1,568	734	734	734	2571	2495	0	0	2571	2495		
2	4,714	4,112	2,316	2316	1339	2871	2420	1408	1228	4279	3648		
3	3,555	461	-	0	0	5162	1319	0	0	5162	1319		
4	2,782	1,985	159	159	159	4493	2417	0	0	4493	2417		
5	2,167	1,035	1,035	1035	1035	2776	1323	0	0	2776	1323		
6	1,783	1,594	1,594	1206	1206	1468	1206	0	0	1468	1206		
7	2,313	-	-	0	0	925	0	982	0	1907	0		
8	1,278	116	116	116	116	685	215	148	51	833	266		
WASA Subtotal	20,183	10,871	5,954	5,566	4,589	20,951	11,395	2,538	1,279	23,489	12,674		
DDOT (via VMS) Subtotal				0	0								
Grand Total	20,183	10,871	5,954	5,566	4,589								
% Cleaned/Inspected to Date				93%	77%					>100%	>100%		

Table 4-1 Catch Basin Summaries

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 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	11/1/05	Good	Minor	Nets 2/3 full.	280 lbs.
	11/14/05		Maintenance		
Bar Rack CSO 040	11/17/05	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	11/17/05	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:

Program Operation	5-day work week, excluding holidays, weather permitting
Work Days this month:	20
Days not Operating	6
Reason not Operating	Strong winds
# Skimmer in Fleet	2 skimmers
# Skimmers Out of Service	One
Dates	8/17/05 to present
Reason	(B-28) Skimmer was removed from the water for comprehensive
	PM.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	40 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

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: WASA sent correspondence to the other agencies to help set up their coordination efforts. Awaiting reply.

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:

Date:										Inspector's Initials:				
		Ove	rflow	0	bserv	ed	Qı	antity	y of Quantity of					
CSO	Time of Observa tion	Y	N	L	м	н	L	М	Н	L	М	н	REMARKS/OTHER	
009														
010				NC	DN	E								
011														
011a														
012														

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

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 5-2Rainfall Data (inches)

Table 5-2	Kaint	all Data (inches)			
Date		Brentwood Reservoir B	Bryant St PS	Main PS	Rock Creek PS
	11/1/2005	0	0	0	0
	11/2/2005	0	0	0	0
	11/3/2005	0	0	0	0
	11/4/2005	0	0	0	0
	11/5/2005	0	0	0	0
	11/6/2005	0	0	0	0
	11/7/2005	0	0	0	0
	11/8/2005	0.07	0.06	0.04	0.13
	11/9/2005	0	0	0.01	0
1 <i>'</i>	1/10/2005	0	0	0	0
1 <i>'</i>	1/11/2005	0	0	0	0
1 <i>'</i>	1/12/2005	0	0	0	0
1 <i>'</i>	1/13/2005	0	0	0	0
11	1/14/2005	0	0	0	0
11	1/15/2005	0	0	0	0
1 <i>'</i>	1/16/2005	0.57	0.57	0.4	0.56
1 <i>'</i>	1/17/2005	0	0	0	0
11	1/18/2005	0	0	0	0
1 <i>'</i>	1/19/2005	0	0	0	0
1 <i>*</i>	1/20/2005	0	0	0	0
11	1/21/2005	0.72	0.71	0.5	0.58
1 <i>'</i>	1/22/2005	0.22	0.2	0.2	0.12
11	1/23/2005	0.01	0.02	0.05	0.05
1 <i>'</i>	1/24/2005	0.04	0	0.01	0
1 <i>'</i>	1/25/2005	0	0	0	0
1 <i>*</i>	1/26/2005	0	0	0	0
1 <i>'</i>	1/27/2005	0	0	0	0
1	1/28/2005	0.02	0.02	0.02	0.01
1	1/29/2005	0.62	0.64	0.46	0.56
1	1/30/2005	0	0	0	0
Total		2.27	2.22	1.69	2.01



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

Monthly Operations Report For Combined Sewer System Month: December 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: December 2005

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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

		Associated NPDES	Date	0	Condition		
Struct No.	Location		Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/28/05	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/28/05	*			
5	Poplar Point Pumping Station	004	12/09/05	*			
6	Chicago Street and Railroad Ave, SE	005	12/12/05	*			
7	W Street and Railroad Ave, SE	005	12/12/05	*			
8	Good Hope Rd, west of Nichols Ave, SE			*			
		006	12/12/05				
9	13 th Street and Ridge Place, SE	007	12/09/05	*			
11	"O" Street Pumping Station	011(a)	12/14/05	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/14/05	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/05/05	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/13/05	*			
15	South Capitol and E Streets	010	12/13/05	*			
15a	Half and L Streets, SE	010	12/13/05	*			
15b	South Capitol and I Streets	010	12/14/05	*			
15c	South Capitol and I Streets	010	12/14/05	*			
16	North of Main Sewage Pumping Station	012	12/13/05	*			
17	4 th and N Streets, SE, Both Extended	013	12/15/05	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	12/29/05	*			
18	6 th and M Streets, SE	014	12/18/05	*			
19	9 th and M Streets, SE	015	12/07/05	*			
19a	9 th and M Streets, SE	015	12/07/05	*			
20	12 th and M Streets, SE	016	12/07/05	*			
20a	12 th and M Streets, SE	016	12/07/05	*			
21	14 th and M Streets, SE	017	12/07/05	*			

		A appointed NDDES	Data	0	Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
22a	Barney Circle and Pennsylvania Ave, SE	018	12/09/05	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/16/05	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/16/05	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/16/05	*			
22e	14 th Street and Kentucky Ave, SE	018	12/16/05	*			
23	Independence Ave, 21 st Street, SE, Extended	019	12/07/05	*			
24a	East Capitol St, west of RFK stadium	019	12/07/05	*			
28	21 st and Constitution Ave, NW	020	12/19/05	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/19/05	*			
30	17 th and D Streets, NW	020	12/28/05	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/05/05	*			
33	10 th and F Streets, NW	020	12/05/05	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/14/05	*			
34a	23 rd Street near C Street, NW	020	12/19/05	*			
35	Northeast of Roosevelt Bridge, NW	021	12/14/05	*			
36	27 th and I Streets, NW	022	12//07/05	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/07/05	*			
36b	19 th and L Streets, NW	022, 034	12/09/05	*			
36d	17 th and L Streets, NW	022, 034	12/09/05	*			
36g	18 th and M Streets, NW	022, 034	12/09/05	*			
36h	18 th and M Streets, NW	022, 034	12/09/05	*			
37	27 th and Eye Streets, NW	022	12/07/05	*			
38	29 th and K Streets, NW	024	12/05/05	*			
38a	30 th Street, south of K Street, NW	024	12/05/05	*			
39a	30 th and K Streets, NW	024	12/05/05	*			
39b	30 th and K Streets, NW	024	12/05/05	*			
41b	31 st and K Streets, NW	025	12/05/05	*			
41c	31 st and K Streets, NW	025	12/05/05	*			

			Data	0	Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Good	Needs Work	Work Needed	Work performed
42	Wisconsin Ave and K Street, NW	026	12/05/05	*			
43	Potomac and Water Streets, NW	027	12/12/05	*			
43a	Potomac and Water Streets, NW	027	12/12/05	*			
44	Water Street, west of Potomac St, NW	027	12/12/05	*			
45	36 th and M Streets, NW	028	12/12/05	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/01/05	*			
47	38 th Street and Reservoir Road, NW	029	12/01/05	*			
47a	37 th and T Streets, NW	029	12/01/05	*			
47b	37 th and T Streets, NW	029	12/01/05	*			
47c	38 th and W Streets, NW	029	12/01/05	*			
49	Pennsylvania Ave, east side of Rock Creek, NW	031	12/19/05	*			
50	26 and M Streets, NW	032	12/19/05	*			
51	N Street Extended, west of 25 th Street, NW	033	12/19/05	*			
52	22 nd Street between M and N Streets, NW	034	12/19/05	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/14/05	*			
53	22 nd and M Streets, NW	022, 034	12/14/05	*			
53a	22 nd and M Streets, NW	022, 034	12/19/05	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	12/09/05	*			
53c	L and 22 nd Streets, NW	022	12/09/05	*			
54	23 rd and O Streets, NW	034	12/09/05	*			
55	22 nd Street, south of Q Street, NW	035	12/27/05	*			
55a	22 nd Street, south of Q Street, NW	035	12/27/05	*			
56	23 rd and Massachusetts Ave, NW	036	12/27/05	*			
57	23 rd Street, south of Q Street, NW	036	12/27/05	*			
58	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	12/22/05	*			
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/22/05	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/21/05	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/21/05	*			

		Associated NPDES	Data	0	Condition		
Struct No.	Location	Associated NPDES Outfall	Date Inspected	Cood	Needs Work	Work Needed	Work performed
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/21/05	G000		Work Weddud	nonk perjormed
63	Harvard Street and Rock Creek Parkway, NW	041	12/21/05	*			
64	•	-		*			
	Adams Mill Road, south of Irving Street, NW	043	12/27/05	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/27/05	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/27/05	-			
66	Adams Mill Road and Lamont Street, NW	045	12/27/05	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	12/27/05	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/27/05	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/27/05	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/01/05	*			
70i	5 th and Quackenbos Streets, NW	049	12/01/05	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	12/09/05	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/09/05	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/09/05	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/09/05	*			
74	Q Street, west of Rock Creek, NW	053	12/27/05	*			
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/29/05	*			
77	Normanstone Dr Extended, west of Rock Creek, NW	056	12/29/05	*			
77a	Normanstone Dr and Normanstone Lane, NW	056	12/29/05	*			
78	28th Street Extended, west of Rock Creek, NW	057	12/29/05	*			
79	Connecticut Ave and Rock Creek Parkway, NW	058	12/01/05	*			
84	26 th and P Streets, NW	060	12/09/05	*			
84a	26 th and P Streets, NW	060	12/09/05	*			

- 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.

-			1	0 4 11		<i>a</i>		~			
				Dutfall		Gate		Tide Gate			
NDDEC		D	Ca	ondition	Pres	ent?	Condi	1		CSO Sign	
NPDES	x .	Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
	Bolling Air Force Base, at Giavanolli and										
003	Chanute, SW	12/28/05	*		*		*		*		
	Across from Navy Yard, aligned with Parsons										
005	Ave., SE	12/01/05	*		*		*		*		
006	Good Hope Road and Welsh Memorial Bridge	12/01/05	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	12/01/05	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/15/05	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/15/05	*			*			*		
011	Main Sewage Pumping Station, SE	12/15/05	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/15/05	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/15/05	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	12/15/05	*		*		*		*		
014	Navy Yard, aligned with 6 th St., SE	12/15/05	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/15/05	*			*			*		
016	12th and O Streets, SE	12/15/05	*		*		*		*		
017	M and Water Street, SE	12/15/05	*		*		*		*		
	East of Barney Circle and South of										
018	Pennsylvania Avenue Bridge, SE	12/15/05	*		*		*		*		
	Adjacent to Service Drive behind swirl facility										
019	and D.C. General Hospital	12/07/05	*			*			*		
020	Rock Creek Parkway and Independence, NW	12/29/05	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/29/05	*			*			*		
022	Rock Creek Parkway and G St., NW	12/29/05	*		*		*		*		

 Table 2 - Outfalls and Tide Gates

				Outfall ondition		Gate sent?	Tide C Condi	tion		CSO Sign	
NPDES Outfall	Location	Date Inspected	ОК	Needs Work	Yes	No	OK	Needs Work		Needs Work	Notes, Work Needed or Performed
024	South of 30 th and K Streets, NW	12/29/05	*		*			*	*		WASA has developed a capitol project to design and construct a replacement gate for improved performance.
-	South of 31st and K Streets, NW	12/29/05	*		*		*		*		performance.
025	,		*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	12/29/05	*		*	*	*		*		
027	33 rd and Water Sts., NW	12/29/05				-					
028	Key Bridge and Whitehurst Freeway, NW	12/29/05	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	12/29/05	*		*		*		*		
031	Rock Creek Pkwy and Pennsylvania Avenue, NW.	12/19/05	*			*			*		
032	26th and M Street, NW.	12/19/05	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/19/05	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/29/05	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	12/29/05	*		*		*		*		
036	22nd Street, South of Q Street NW.	12/01/05	*		*		*		*		
037	Waterside Dr. and Rock Creek Parkway	12/22/05	*		*		*		*		
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/22/05	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/21/05	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/21/05	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/08/05	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/08/05	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/08/05	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/08/05	*		*		*		*		

				Outfall ondition		Gate sent?	Tide C Condi			CSO Sign	
NPDES		Date		Needs				Needs			
Outfall	Location	Inspected	OK	Work	Yes	No	OK	Work	OK	Needs Work	Notes, Work Needed or Performed
045	North of Beach Dr. and Walbridge Pl, NW.	12/27/05	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	12/27/05	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/27/05	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	12/27/05	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	12/01/05	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/01/05	*		*		*		*		
	Across Rock Creek Parkway, aligned with Olive St., NW.		*		*		*		*		
		12/15/05									
	Between P and Penna. Ave Bridges, aligned with O Street, NW.	12/15/05	*		*		*		*		
053	Q St. Bridge and Rock Creek Parkway, NW.	12/01/05	*		*		*		*		
	Massachusetts Avenue and Rock Creek Parkway, NW.	12/29/05	*		*		*		*		
056	Normanstone Dr. and Rock Creek Parkway, NW.	12/29/05	*		*		*		*		
057	28th Street and Rock Creek Parkway, NW	12/29/05	*		*		*		*		
058	Connecticut Avenue and Rock Creek Parkway, NW.	12/01/05	*			*			*		
060	North of P Street Bridge and Rock Creek Pkwy, NW	12/01/05	*		*		*		*		

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.

	Pumping Stations – Inspections and Equipment in Service											
Pumping	No. of	No.	No.	Screens or Pumps								
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service					
Main	31	4	12	Screen #4	12/1/05	Out of alignment	1/31/06					
				Sanitary Pump #2	12/1/05	Needs packing sleeve	2/28/06					
Eastside	31	2	4			Motor leaking oil						
				Sanitary Pump # 3	12/20/05	Motor removed for repair by maintenance crew	2/28/06					
Poplar Point	31	2^{1}	3	Screen # 2	12/3/05	Screen off track	12/30/05					
				Sanitary Pump # 1	12/4/05	Mechanical seal needs to be install	1/31/06					
Potomac	31	4	5	None								

 Table 2-3

 Pumping Stations – Inspections and Equipment in Service

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.

	Pumping Stations – Preventive Maintenance										
		<i>Type of Preventive Maintenance</i>									
Pumping Station	Date Performed	Performed ¹	Comments								
Main	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								
O St	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								
Eastside	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								
Poplar Point	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								
Potomac	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								
Rock Creek	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								
Upper Anacostia	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								
Earle Place	12/23/05	Group A	Add oil, grease bearings and replace packing if needed.								

 Table 2-4

 Pumping Stations – Preventive Maintenance

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

Sanitary I Total Wastewater (mg)	Daily Average	Storm W	Vater/CSO Pumped To	
Wastewater (mg)			1	Screenings Collected
(Wastewater (mg)	Date	Volume (mg)	(units)
2,076	66.97	N/A	N/A	N/A
166.00	5.35	N/A	None	Normal
176.80	5.70	N/A	N/A	N/A
457.30	14.75	N/A	N/A	N/A
5,087.50	164.11	N/A	N/A	N/A
216.00	6.97	N/A	N/A	N/A
59.30	1.91	N/A	N/A	N/A
0.39	0.01	N/A	N/A	N/A
	2,076 166.00 176.80 457.30 5,087.50 216.00 59.30	2,076 66.97 166.00 5.35 176.80 5.70 457.30 14.75 5,087.50 164.11 216.00 6.97 59.30 1.91	2,076 66.97 N/A 166.00 5.35 N/A 176.80 5.70 N/A 457.30 14.75 N/A 5,087.50 164.11 N/A 216.00 6.97 N/A 59.30 1.91 N/A	2,076 66.97 N/A N/A 166.00 5.35 N/A None 176.80 5.70 N/A N/A 457.30 14.75 N/A N/A 5,087.50 164.11 N/A N/A 216.00 6.97 N/A N/A 59.30 1.91 N/A N/A

Table 2-5Pumping Stations – Pumpage

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

2-4 Northeast Boundary Swirl Facility

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

		Normeast boundary Swift Facinty – inspections and Equipment in Service										
Date	#		Screens or Swirls									
Inspected	Screens	# Swirls	Out of Service	Dates	Reason	Schedule to Restore to Service						
12/14/05	1,2 & 3	1,2 & 3	None	N/a	N/a	N/a						

 Table 2-6

 Northeast Boundary Swirl Facility – Inspections and Equipment in Service

 Table 2-7

 Northeast Boundary Swirl Facility – Preventive Maintenance

Date Performed	<i>Type of Preventive Maintenance Performed¹</i>	Comments
12/14/05	Group A	

 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

	Normeast Doundary Swill Facility – Wet Weather Operations												
	Approx. Storm				Approx. Screenings								
	$Duration^{1}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume³</i>								
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)								
12/09/05	5	6.34	6.34	0	0.80(64)								
12/15/05	8	23.07	5.25	17.83	0.50(40)								
12/16/05	8	9.86	9.86	0	0.30(24)								
12/25/05	5	7.59	3.93	3.65	2.50(200)								
12/25/05	6	10.44	2.34	8.10	0.15(12)								

 Table 2-8

 Northeast Boundary Swirl Facility – Wet Weather Operations

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.

				ast Doundary Swift							
	Chlor/			Residual Chlorin	ne Test						
	Dechl	Do	sages	Results		Enterococcus Test	t Results	Fecal Coliform Test Results			
	or										
	Syste						Count		Count		
	т	NaOCl	NaHSO ₃		Conc.		Per		Per		
Date	Used?	(<i>mg/l</i>)	(mg/l)	Location	(<i>mg/l</i>)	Site	100ml	Site	100ml		
12/15/05	Yes	5	2	Mix Chamber	0.4	Mix Chamber	35,000	Mix Chamber	260,000		
12/15/05	Yes	5	2	Anacostia River	0.0	Anacostia River	38,000	Anacostia River	220,000		
12/25/05	Yes	5	2	Mix Chamber	0.3	Mix Chamber	46,000	Mix Chamber	58,000		
12/25/05	Yes	5	2	Anacostia River	0.2	Anacostia River	23,000	Anacostia River	4,500		
12/25/05	Yes	5	2	Mix Chamber	0.5	Mix Chamber	31,000	Mix Chamber	43,000		
12/25/05	Yes	5	2	Anacostia River	0.0	Anacostia River	28,000	Anacostia River	41,000		

Table 2-9 Northeast Boundary Swirl Facility – Disinfection Performance

<u>Notes:</u> 1. Mix Chr.: Mixing Chamber

2. River: River Outfall

				-			
		Nitrite	Nitrate	Total Kjeldahl		Total	Carbonaceous
	Total suspended	(NO2-N)	(NO3)	Nitrogen	Total Nitrogen	Phosphorus	Biological Oxygen
Date	solids (mg/L)	mg/L	mg/L	(mg/L as N)	(mg/L)	(mg/L)	Demand (mg/L)
12/15/05	114	0.13	0.53	6.24	6.90	0.93	21.5
12/25/05	95.0	< 0.05	0.52	3.71	4.23	0.52	43.8

 Table 2-10

 Northeast Boundary Swirl Facility – Effluent Sampling Results

2.5 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:

Inflatable Dam		Was Dam Out of Service			Schedule to Restore to
Structure No	Date Inspected	During the Month?	Dates out of Service	Reason	Service
14 - East	12/13/05	No	N/A	N/A	N/A
14 - West	12/13/05	No	N/A	N/A	N/A
15	12/13/05	No	N/A	N/A	N/A
15A	12/13/05	No	N/A	N/A	N/A
16 - East	12/13/05	No	N/A	N/A	N/A
16 - West	12/13/05	No	N/A	N/A	N/A
24 - North	12/13/05	No	N/A	N/A	N/A
24 - Middle	12/13/05	No	N/A	N/A	N/A
24 - South	12/13/05	No	N/A	N/A	N/A
34	12/13/05	No	N/A	N/A	N/A
35	12/13/05	No	N/A	N/A	N/A
52	12/13/05	No	N/A	N/A	N/A

 Table 2-11

 Inflatable Dams – Inspections and Equipment in Service

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

 Table 2-12

 Inflatable Dams & SCADA Sites - Wet Weather Operations

3. DRY WEATHER OVERFLOWS

Dry weather overflows (DWOs), are summarized below:

Dry Weather OverflowsLocation:CauseCauseDate/Time DiscoveredAction TakenDate/Time Discharge CeasedEstimated Volume (mg)Did Overflow Reach Receiving water?Action taken to prevent reoccurrence

Table 3-1 Dry Weather Overflows

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:

			1 a.	te +-1 Catel	i dasin Suim	narics					
				Inspe	ections			Clea	ning		
Ward	Total CBs	CBs in CSS	CBs in Anacostia CSS	Total CBs Inspected Once this Year	Total CBs Inspected Twice this Year	CBs Clea Last I Total			eaned this onth In CSS		s Cleaned tr to Date In CSS
						Totur	III COD	Totur	III COD	Total	III COD
1	1,591	1,568	734	734	734	2571	2495	90	63	2661	2558
2	4,714	4,112	2,316	2316	2316	4279	3648	501	473	4780	4121
3	3,555	461	-	0	0	5162	1319	23	0	5185	1319
4	2,782	1,985	159	159	159	4493	2417	9	0	4502	2417
5	2,167	1,035	1,035	1035	1035	2776	1323	292	0	3068	1323
6	1,783	1,594	1,594	1594	1594	1468	1206	412	391	1880	1597
7	2,313	-	-	0	0	1907	0	449	0	2356	0
8	1,278	116	116	116	116	833	266	120	33	953	299
WASA Subtotal	20,183	10,871	5,954	5,954	5,954	23,489	12,674	1,896	960	25,385	13,634
DDOT (via VMS) Subtotal				0	0						
Grand Total	20,183	10,871	5,954	5,954	5,954						
% Cleaned/Inspected to Date				100%	100%					>100%	>100%

Table 4-1 Catch Basin Summaries

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 4-2BMP Demonstration Projects – Report

Facility	Date Inspected	Condition	Work Needed	Work performed	Material Removed (CY)
Netting System CSO 018	12/7/05 12/21/05	Good	Minor Maintenance	None	280 lbs.
			(Boom)		
Bar Rack CSO 040	12/21/05	Good	None	Routine Cleaning	(1)
Bar Rack CSO 041	12/08/05	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:

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	One
Dates	8/17/05 to present
Reason	(B-28) Skimmer was removed from the water for comprehensive
	PM.
Plan to Restore to Service	As soon as possible.
Volume Material Collected	60 ton.
Nature of Material	Bottles, cans, natural debris and plastics.

 Table 4-3

 Anacostia River Floating Debris Removal Program – Summary

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: DC WASA sent correspondence to the other agencies to help set up their coordination efforts. Awaiting reply.

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:

			Date	:								li	nspector's Initials:
		Ove	rflow	Observed			Quantity of Quar			ntity c	of		
CSO	Time of Observa tion	Y	N	L	м	н	L	м	н	L	м	н	REMARKS/OTHER
009													
010				NC	NONE					Π			
011													
011a													
012													

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

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)

Table 5-2

Table 5-2		II Data (inches)	Drugent St DS	Main DC	Bee	k Creek PS
Date		Brentwood Reservoir	Bryant St PS	Main PS	RUC	K CIEEK PS
	2/1/2005		0	0	0	0
	2/2/2005		C	0	0	0
	2/3/2005		0	0	0.01	0.01
	2/4/2005	0.29			0.2	0.23
	2/5/2005		0	0	0	0
	2/6/2005	0.22			0.19	0.12
	2/7/2005		0	0	0.01	0
	2/8/2005		0	0	0	0
	2/9/2005	0.5		56	0.51	0.42
	/10/2005		0	0	0	0
	/11/2005		0	0	0	0
12/	/12/2005	()	0	0	0
12/	/13/2005		0	0	0	0
12/	/14/2005		0	0	0	0
12/	/15/2005	0.9			0.78	0.91
12/	/16/2005	0.20	6 0.2	28	0.22	0.17
12/	/17/2005	0.10	6	0	0	0
12/	/18/2005	0.0	1	0	0	0
12/	/19/2005	0.0	1	0	0	0
12/	/20/2005		0	0	0	0
12/	/21/2005		0	0	0	0
12/	/22/2005		0	0	0	0
12/	/23/2005		0	0	0	0
12/	/24/2005		0	0	0.02	0
12/	/25/2005	0.03	3 0.0	67	0.68	0.51
12/	/26/2005		0.0	02	0.02	0.02
12/	/27/2005		0	0	0	0
12/	/28/2005		0	0	0	0
	/29/2005		0.2		0.29	0.27
	/30/2005		0	0	0	0
12/	/31/2005		0	0	0	0
Total		2.5	1 3.	18	2.93	2.66

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results Period: October, November, December 2005 SCENARIO: Q4_Y2005, 1-18-06

1				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Overflow	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
Anacostia CSC	Ds						
005	Chicago St and Railroad Station SE	13	13.7	120.3	9.3	32.8	2.3
006	Good Hope Road, West of Nichols Ave.,SE	2	0.0	1.3	0.6	0.8	0.5
007	13 th Street and Ridge Place,SE	13	35.8	103.3	7.9	31.3	1.3
	2nd Street, 300 feet North of N Place,						
009	SE	12	11.0	65.0	5.4	30.0	0.8
010	O Street SewagePumping Station, SE (pumped Overflow)	8	393.4	40.8	5.1	29.0	0.5
010	South of Main Sewage Pumping		000.1	1010	0.1	20.0	0.0
011	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
UTTa	North of Main SewagePumping Station,	0	0.0	0.0	0.0	0.0	0.0
012	SE (Tiber Creek)	1	16.3	10.5	10.5	10.5	10.5
013 014	4th and N Streets, SE 6th and M Streets, SE	9 13	6.5 34.9	42.3 87.3	4.7 6.7	26.0 32.5	0.5
014	9th and M Streets, SE	4	1.0	21.3	5.3	20.0	0.5
016	12th and M Streets, SE	8	12.0	34.3	4.3	24.8	0.3
017	14th and M Streets, SE	9	21.4	44.5	4.9	27.3	1.0
018	Barney Circle andPennsylvania Ave, SE	9	6.0	53.3	5.9	29.3	1.3
018	Northeast Boundary - Swirl Effluent	10	659.7	91.0	9.1	33.0	0.5
019	Northeast Bound Swirl Bypass	3	155.1	26.0	8.7	24.0	0.8
	SUBTOTAL		1,367				
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)	4	81.0	28.0	7.0	24.3	0.5
020	Northeast ofRoosevelt Bridge, NW	10	615.0	63.0	6.3	31.0	0.5
022	27th and K Streets, NW	10	73.4	58.0	5.8	30.0	0.3
024	30th and K Streets, NW	8	95.6	55.3	6.9	34.3	1.3
025 026	31st & K St NW Wisconsin Avenue andK St., NW	1	0.4	14.0 0.0	14.0 0.0	14.0 0.0	14.0 0.0
027	Water Street West of Street, NW	12	46.3	117.5	9.8	33.0	2.3
028	36th and M Streets, NW	3	1.4	20.3	6.8	18.8	0.5
029	Canal Road 1000 feet east of Rock Creek,NW	12	34.8	92.0	7.7	31.5	0.3
023	SUBTOTAL	12	948	32.0	7.7	51.5	0.5
Book Crook							
Rock Creek	Pennsylvania Avenue, East Rock						
031	Creek, NW	2	0.6	26.3	13.1	25.0	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	2	11.2	16.5	8.3	16.3	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	0	0.0	0.0	0.0	0.0	0.0
036	22nd Street South of Q Street, NW Northwest of Belmontand Rock Creek	10	3.8	54.5	5.5	29.5	0.3
037	and Potomac Parkway	3	0.1	3.8	1.3	2.5	0.3
	North of Belmont Road,east of						
038	Kalorama Circle, NW Connecticut Avenue east of Rock	0	0.0	0.0	0.0	0.0	0.0
039	Creek, NW	0	0.0	0.0	0.0	0.0	0.0
	Biltmore Street extended east of						
040	RockCreek, NW Ontario extended and Rock Creek	0	0.0	0.0	0.0	0.0	0.0
041	Parkway	0	0.0	0.0	0.0	0.0	0.0
	Harvard Street and RockCreek						
042	Parkway, NW Adams Mill Road South of Irving	0	0.0	0.0	0.0	0.0	0.0
043	Street, NW	0	0.0	0.0	0.0	0.0	0.0
	Kenyon Street and Adams Mill Road,						
044	NW	0	0.0	0.0	0.0	0.0	0.0
045	Adams Mill Road and Lamont Street, NW	0	0.0	0.0	0.0	0.0	0.0
	Park Road south of Piney Branch	v	0.0	0.0	0.0	0.0	0.0
046	Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
047	Ingleside Terrace extended and Piney Branch Parkway	2	0.1	1.3	0.6	0.8	0.5
047	Mt. Pleasant Street extended and	۷	0.1	1.3	0.0	0.0	0.0
048	Piney Branch Parkway	0	0.0	0.0	0.0	0.0	0.0
040	Binov Branch and LamontOtrast NIM	0	60.2	47 5	5.2	20.0	1.0
049 050	Piney Branch and LamontStreet, NW 28th Street west of 16th Street, NW	9	60.3 0.0	47.5 0.0	5.3 0.0	28.8 0.0	1.0 0.0
	Olive Street extended and Rock Creek						
051	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
	O Street west of Rock Creek Parkway,		0.0	0.0	0.0	0.0	0.0
053	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
004	01 111000. AVG, 1111	0	0.0	0.0	0.0	0.0	0.0

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results Period: October, November, December 2005 SCENARIO: Q4_Y2005, 1-18-06

				Total		Maximum	Minimum
		Number of	CSO	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Overflow	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
	Normanstone Drive extended west of						
056	Rock Creek, NW	0	0.0	0.0	0.0	0.0	0.0
	28th Street extended west of Rock						
057	Creek, NW	3	4.6	20.3	6.8	18.8	0.5
	Connecticut Avenue and Rock Creek						
058	Parkway, NW	0	0.0	0.0	0.0	0.0	0.0
060	P St and 26 th St, NW	0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL		81				
	TOTAL		2,395				

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