

Washington Suburban Sanitary Commission (WSSC)

AGENCY DESCRIPTION

The Washington Suburban Sanitary Commission (WSSC) is a bi-county agency directed by a board of six commissioners, three each from Prince George's County and Montgomery County. The commissioners are appointed by the respective jurisdiction's Executive and confirmed by its County Council.

The WSSC is responsible for providing water and sanitary sewer service within the Washington Suburban Sanitary District, which includes most of Montgomery and Prince George's counties and which, in Montgomery County, excludes the Town of Poolesville and portions of the City of Rockville.

PROGRAM DESCRIPTION AND OBJECTIVES

The principal objective of the Capital Improvements Program (CIP) is the programming of planning, design, land acquisition, and construction activities on a yearly basis for major water and sewerage facilities. These facilities may be necessary for system improvements and/or service to existing customers, to comply with Federal and/or State environmental mandates, and to support new development in accordance with the counties' approved plans and policies for orderly growth and development.

The CIP submission includes all major projects, defined as extensions, projects, or programs involving water and sewer facilities. Major projects include: sewer lines 15 inches in diameter or larger; sewage pumping stations, storage facilities, and force mains; sewage treatment facilities; water mains 16 inches in diameter or larger; water pumping stations; water storage facilities for raw and potable water; water treatment facilities; and other major facilities.

The section following this narrative shows only the WSSC project description forms (PDFs) for which the Executive recommends changes to the Commission's request. Those PDFs are preceded by project briefs which provide a description of the change and the Executive's rationale. The complete set of PDFs submitted by the Commission can be found on the WSSC web site at http://www.wsscwater.com/file/Finance/Budget/FY13_ProposedCIP_rollup.pdf.

PROGRAM CONTACTS

Contact Mark Brackett of WSSC's Budget Group at 301.206.8179 or John Greiner of the Office of Management

and Budget at 240.777.2765 for more information regarding this agency's capital budget.

CAPITAL PROGRAM REVIEW

This narrative applies only to the Montgomery County and Bi-County water and sewerage projects. Projects that serve only Prince George's County are not included.

Agency Request

The total of \$1,249.3 million in six-year expenditures proposed by the WSSC for FY13-18 is \$88.6 million (6.6 percent) less than the FY12-17 approved total of \$1,337.9 million. The decrease in six-year costs is primarily attributable to a number of large projects that are moving through construction and are expected to be wholly or largely completed within the next six years. These include the Potomac Water Filtration Plant (WFP) Improvements Project, the Bi-County Water Tunnel, the Anacostia Storage Facility, the Seneca Waste Water Treatment Plant (WWTP) Expansion Part 2 and Enhanced Nutrient Removal projects, and the Blue Plains WWTP Biosolids Management Part 2, Biological Nutrient Removal, and Enhanced Nutrient Removal projects.

The FY13-18 CIP request includes 48 ongoing and 3 closeout projects (there are no pending closeout projects). There is one new project: the Potomac WFP Main Zone Pipeline.

The following table compares the six-year expenditures and funding approved for FY12-17, requested by WSSC for FY13-18, and recommended by the County Executive for FY13-18.

WSSC CIP COMPARISON: FY13-18 vs. FY12-17					
(S000)					
(SIX-YEAR DATA)	CURRENT APPROVED FY12-17	AGENCY REQUEST FY13-18	CHANGE FROM APPROVED	CE RECOMMENDED FY11-16	CHANGE FROM APPROVED
EXPENDITURES					
MONTGOMERY COUNTY SEWERAGE	60,509	37,976	(22,533)	37,976	(22,533)
BI-COUNTY SEWERAGE	927,602	835,781	(91,821)	832,303	(95,299)
MONTGOMERY COUNTY WATER	23,641	26,190	2,549	26,190	2,549
BI-COUNTY WATER	326,157	349,343	23,186	349,343	23,186
TOTAL EXPENDITURES	1,337,909	1,249,290	(88,619)	1,245,812	(92,097)
FUNDING					
WSSC BONDS	976,715	969,118	(7,597)	994,344	17,629
SYSTEMS DEVELOPMENT CHARGE	123,111	84,009	(39,102)	84,009	(39,102)
CONTRIBUTIONS	11,130	12,068	938	12,068	938
ALL OTHER SOURCES	226,953	184,095	(42,858)	155,391	(71,562)
TOTAL FUNDING	1,337,909	1,249,290	(88,619)	1,245,812	(92,097)

Executive Recommendations

The Executive's recommended FY13-18 CIP is identical to the Commission's proposed CIP except for the six Blue Plains Advanced Wastewater Treatment Plant projects, which have been adjusted to reflect the cost estimates included in the Proposed FY11-20 CIP for the District of Columbia Water and Sewer Authority (WASA, now doing business as DC Water). The revised amounts were not incorporated into WSSC's Proposed FY13-18 CIP because DC Water's Proposed FY11-20 CIP was received after WSSC's CIP was published.

Because of the revised estimates for the Blue Plains projects, the Executive's recommended six-year expenditures for WSSC's CIP total \$1,245.8 million, which is a \$92.1 million (6.9 percent) decrease from the approved FY12-17 CIP of \$1,337.9 million and a \$3.5 million decrease from WSSC's proposed FY13-18 CIP. The decrease in total FY13-18 Blue Plains project costs is largely due to lower cost estimates for the Enhanced Nutrient Removal Project as various sub-projects move into design and become more precisely defined, plus minor changes to sub-projects in the Liquid Train, Biosolids Management, and Biological Nutrient Removal projects. These reductions were partially offset by cost increases for Pipelines and Appurtenances and for Plant Wide Projects due to the addition of new sub-projects.

The following table summarizes the recommended changes for each of the Blue Plains projects.

BLUE PLAINS WWTP PROJECTS - COST COMPARISON							
(S000)							
Projects	TOTAL 6 YR	FY13	FY14	FY15	FY16	FY17	FY18
WSSC REQUEST							
Liquid Train Projects, Part 2	30,080	7,803	4,668	1,619	3,171	7,643	5,176
Biosolids Management, Part 2	162,931	111,139	38,977	4,714	5,141	2,491	469
Biological Nutrient Removal	17,314	11,894	4,497	717	206	0	0
Plant Wide Projects	29,502	7,801	6,230	3,656	2,242	2,518	7,055
Enhanced Nutrient Removal	299,101	84,395	56,537	75,743	60,577	19,778	2,071
Pipelines and Appurtenances	68,769	13,263	12,645	15,353	13,488	9,244	4,776
WSSC REQUEST TOTAL	607,697	236,295	123,554	101,802	84,825	41,674	19,547
CE RECOMMENDED							
Liquid Train Projects, Part 2	30,296	9,458	4,985	1,799	2,524	6,833	4,697
Biosolids Management, Part 2	164,941	110,339	40,225	8,904	3,659	1,613	201
Biological Nutrient Removal	18,989	10,559	5,629	2,490	311	0	0
Plant Wide Projects	32,232	10,166	7,795	3,384	1,813	2,204	6,870
Enhanced Nutrient Removal	285,666	73,377	59,813	46,120	50,593	43,635	12,128
Pipelines and Appurtenances	72,095	12,857	14,873	17,812	13,741	8,683	4,129
CE RECOMMENDED TOTAL	604,219	226,756	133,320	80,509	72,641	62,968	28,025
CE Recommended - WSSC Request	(3,478)	(9,539)	9,766	(21,293)	(12,184)	21,294	8,478

HIGHLIGHTS

- Continue to enhance wastewater treatment and solids handling facilities at the regional Blue Plains Advanced Wastewater Treatment Plant in order to achieve environmental goals and greater efficiency.
- Continue to improve reliability and reduce treatment costs at the Potomac Water Filtration plant, including the new

Potomac WFP Main Zone Pipeline Project which is needed to provide greater redundancy.

- Move forward with the Bi-County Water Tunnel, which is scheduled for completion in December, 2013.
- Increase the miles of large cast iron and pre-stressed concrete cylinder pipe (PCCP) water mains repaired, replaced, and protected under the Large Diameter Water Pipe Rehabilitation Program, and prepare to extend these efforts to 42- and 36-inch diameter PCCP mains.
- Increase replacement of small water mains from 41 miles in FY12 to 46 miles in FY13 and the rehabilitation of small sewer lines from 22 miles to 55 miles.
- Continue to upgrade the Blue Plains, Seneca, and Damascus wastewater treatment plants for enhanced nutrient removal to meet the environmental goals in the Chesapeake 2000 plan.
- Begin planning for the system-wide implementation of automated meter reading technology by 2017.

SPENDING CONTROL LIMITS

In order to reduce the magnitude of water and sewer rate increases, the Montgomery and Prince George's County councils adopted a spending affordability process in April 1994. The process requires the counties to set annual ceilings on WSSC's water and sewer rates and debt (both bonded indebtedness and debt service), and then to adopt corresponding limits on the size of the capital and operating budgets.

While the spending limits technically apply only to the first year of the six-year program, the purpose of the limits includes controlling debt, debt service, and rate increases over the longer term. The FY13 spending control limits adopted by the Montgomery County Council are shown below with their outyear projections. The Prince George's County Council adopted identical FY13 spending control limits for WSSC. The first year of the Commission's proposed CIP is consistent with the approved FY13 spending control limits shown below, as is the County Executive's recommended CIP for WSSC.

FY13 WSSC SPENDING CONTROL LIMITS ADOPTED BY THE MONTGOMERY COUNTY COUNCIL (AND OUTYEAR PROJECTIONS)						
	FY13	FY14	FY15	FY16	FY17	FY18
New Debt Requirement (\$000)	\$481,764	\$390,331	\$379,274	\$391,085	\$361,941	\$319,495
Total W/S Operating Budget (\$000)	\$628,999	\$681,916	\$730,408	\$786,990	\$843,305	\$894,128
Debt Service (\$000)	\$212,714	\$252,299	\$286,530	\$321,879	\$353,329	\$379,986
Average Rate Increase	8.5%	12.2%	9.1%	9.1%	7.7%	6.2%

Source: Montgomery County Council Resolution 17-285 and WSSC Budget Group.

An estimate of the impact on the water or sewer rate (i.e., the charge to users) is calculated for each project for which the estimated annual debt service and operating and maintenance (O&M) costs would result in at least a one cent increase per 1,000 gallons of total consumption. The WSSC Budget Group estimates the relationship between annual debt service and O&M costs and the water and sewer rates. For water projects, approximately \$506,560 of debt service and/or O&M costs

equates to a one cent increase in the water rate. For sewer projects, approximately \$463,520 of debt service and/or O&M costs equates to a one cent increase in the sewer rate.

WSSC has cautioned that the calculated impact on water and sewer rates represents only a broad indication of the effect that a particular project has on the rate schedule. The impact on water and sewer rates is influenced by a number of factors, including the actual interest rate on the bonds sold to fund the project, the availability of grants for sewer projects, and fluctuations in water usage (which affect sales revenue).

WSSC'S LEVEL OF BONDED INDEBTEDNESS

Debt Service

The Executive and Council monitor the WSSC's bonded indebtedness and debt service level. Total outstanding water and sewer bond debt has risen 29.8 percent since FY08, and total water and sewer debt service is up 11.7 percent over the same period, as shown in the following table. However debt service as a percentage of water and sewer operating expenditures remained relatively stable between FY08 and FY11, averaging 31.5 percent.

WSSC BONDED INDEBTEDNESS AND DEBT SERVICE								
(\$ in Millions)	ACTUAL FY05	ACTUAL FY06	ACTUAL FY07	ACTUAL FY08	ACTUAL FY09	ACTUAL FY10	ACTUAL FY11	ESTIMATED FY12
End of Fiscal Year - Total Outstanding Bond Debt (includes Storm Water Drainage Bonds)	\$1,454.1	\$1,425.4	\$1,342.0	\$1,336.4	\$1,346.7	\$1,366.2	\$1,421.8	\$1,785.1
Outstanding Water and Sewer Bond Debt	\$755.4	\$788.3	\$768.8	\$829.4	\$890.5	\$954.0	\$1,076.8	\$1,469.0
Total Debt Service - All Operating Funds	\$196.6	\$214.6	\$218.6	\$212.4	\$214.0	\$217.1	\$239.6	\$235.8
Debt Service as a % of Total Operating Exp.	44.8%	43.9%	45.1%	41.8%	40.3%	40.4%	41.8%	37.7%
Debt Service in Water/Sewer Operating Exp.	\$133.0	\$139.5	\$141.4	\$136.5	\$141.1	\$149.2	\$152.5	\$185.9
Water/Sewer Debt Service as a % of Total Water/Sewer Operating Expenditures	35.6%	33.9%	34.8%	31.7%	30.9%	31.8%	31.9%	32.3%

Source: WSSC Budget Group

The debt service ratio is projected to rise to 33.8% in FY13 and to exceed 40% in FY16 (see below). WSSC has convened a bi-county working group on infrastructure funding that is exploring ways to keep the debt service ratio under 40%.

PROJECTED WSSC DEBT SERVICE RATIO UNDER THE COUNTY'S APPROVED SPENDING CONTROL LIMITS						
	FY13	FY14	FY15	FY16	FY17	FY18
Debt Service as a % of Total Water and Sewer Operating Expenditures	33.8%	37.0%	39.2%	40.9%	41.9%	42.5%

Debt Capacity

State law provides for the option of a tax levy against all assessable property in the Washington Suburban Sanitary District by Montgomery and Prince George's counties to pay for the principal and interest on WSSC bonds. This provision, which would be exercised only if requested by the WSSC, does not constitute a pledge of the full faith and credit of the two counties. However, WSSC bonds are part of the overlapping debt of county agencies. As of June 30, 2011, WSSC debt represented 46.3 percent of Montgomery County's gross

overlapping debt. The amount of debt that the WSSC issues is therefore a factor in rating agency assessments of the credit worthiness of Montgomery County. In addition, increasing levels of debt service can lead to increases in the combined water and sewer rate.

"INFORMATION ONLY" PROJECTS

The WSSC is obligated by State law to submit for CIP review and approval only major water and sewerage projects. However, the Commission undertakes other kinds of capital projects as well which are shown separately in the CIP. These "Information Only" projects may be included for any number of reasons, including fiscal planning purposes; to improve the reader's understanding of the full scope of a specific set of projects; or in response to a request from one or both of the county governments. "Information Only" projects are subject to review and approval as part of the annual WSSC Operating and Capital Budget, which is acted on by the Council in the spring.

The FY13-18 "Information Only" projects include the Water and Sewer Reconstruction projects, the Anaerobic Digestion/Combined Heat and Power project, Engineering Support, the Energy Performance Program, Entrepreneurial Projects, the Water Storage Facility Rehabilitation Program, the Asset Management Program, the Pressure Reducing Valve Rehabilitation Program, the Sewer Basin Planning Program, and the Advanced Metering Infrastructure Program (new for the FY13-18 CIP). The latter program provides for system-wide implementation of automated meter reading infrastructure by FY17.

The total FY13-18 budget for the Information Only projects is \$1,596.8 million, a 40.9% increase from the \$1,133.5 million approved for the FY12-17 CIP. The increase is largely due to increased spending on the reconstruction of small water and sewer mains (see below) and the new Advanced Metering Infrastructure Program.

Total proposed FY13-18 spending on the Water and Sewer Reconstruction "Information Only" projects will increase by \$321.8 million (33.9%). This will allow small water main replacement to increase from 41 miles in FY12 to 46 miles in FY13, and small sewer rehabilitation to increase from 22 miles in FY12 to 55 miles in FY13 (see the following table).

SMALL WATER AND SEWER MAIN RECONSTRUCTION INCLUDED IN WSSC'S PROPOSED FY13-18 CIP								
	Approved FY12	Proposed FY13-18						FY13-18 Total
		FY13	FY14	FY15	FY16	FY17	FY18	
Water Main Replacement (mi.)	41	46	51	55	55	55	55	317
Sewer Main Rehabilitation (mi.)	22	55	35	30	30	30	30	210

Source: WSSC Budget Group

PROGRAM FUNDING

The WSSC Capital Improvements Program is funded through a variety of sources described below.

WSSC Bonds

The WSSC raises revenue for CIP projects by issuing water and sewer bonds. These bonds are amortized through periodic charges to the users of water and sewer services. Bond funding for the FY13-18 CIP, as recommended by the Executive, is \$994.3 million.

System Development Charge

The System Development Charge (SDC) is a charge to new development to pay for the part of the CIP which is needed to accommodate growth. The WSSC collects SDC revenue from charges to builders based on the number and type of plumbing fixtures installed in new construction projects. The Executive recommends that \$84.0 million in SDC funds be used to fund growth projects in FY13-18.

State Aid

For sewerage projects such as Blue Plains Wastewater Treatment Plant (WWTP) Enhanced Nutrient Removal, Blue Plains WWTP Biological Nutrient Removal, Seneca WWTP Enhanced Nutrient Removal, and Damascus WWTP Enhanced Nutrient Removal, State funds are recommended to cover \$129.0 million of the costs in FY13-18. WSSC asserts that all Commission projects receiving State aid conform to the requirements of local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Municipal Financing

The WSSC CIP contains projects in which neighboring jurisdictions such as the District of Columbia and Rockville join the Commission in financing the construction of sewerage facilities serving the metropolitan area. These jurisdictions contribute an agreed-upon share of the project cost. A total of \$26.4 million in project expenditures is recommended to be financed by these jurisdictions during FY13-18.

Contributions

When the actual costs of water and sewerage facilities required to serve new development are estimated to exceed expected revenues, the difference may be financed by developers in the form of contributions. Contributions toward CIP projects are estimated at \$12.1 million for FY13-18.

STATUTORY AUTHORITY

The Montgomery County CIP review process for the WSSC is governed by laws and regulations of the State of Maryland, the Montgomery County Charter, and the Montgomery County Code. Relevant projects authorized for Montgomery County review include only Montgomery and Bi-County water and sewer projects.

The Montgomery County Executive reviews relevant WSSC CIP proposals and includes them, along with comments and recommendations, in the Executive's Recommended Capital Improvements Program. After a public hearing and subsequent committee work sessions, the Montgomery County Council approves by resolution WSSC's six-year capital

program and annual operating and capital budgets, with modifications as desired.

Bi-County projects are projects located completely or partially within Montgomery County or Prince George's County that are designed to provide service in whole or in substantial part to the other county. A proposed Bi-County project may be disapproved only with the concurrence of the governing body of the county which is to receive the designated service. However, the county in which the project is to be physically located has the authority to direct modifications in project location and scheduling, provided that such modifications or changes do not prevent the service from being available when needed.

This authority to modify location may only be exercised during the year in which the project is first introduced. Thereafter, the authority to make modifications is limited to those changes that would not result in substantial net additional costs to the WSSC, unless the county directing the modification reimburses the WSSC for any additional net cost increases resulting from the modification.

The WSSC is responsible for constructing approved capital projects on a schedule as close as possible to the schedule set forth in the adopted CIP. The Commission is limited to undertaking only those projects which are scheduled in the first year of the program. However, it is not obligated to implement any project determined to be not financially feasible.

EXECUTIVE RECOMMENDATION

Blue Plains WWTP: Biological Nutrient Removal - No. 973817

Category: **WSSC**
 Agency: **W.S.S.C.**
 Planning Area: **Bi-County**
 Relocation Impact: **None**

Date Last Modified: **December 16, 2011**
 Required Adequate Public Facility: **No**

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru 6 Year						Beyond			
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years
Planning, Design and Supervision	19,045	15,981	1,049	2,015	1,187	554	274	0	0	0	0
Construction	68,772	48,457	3,530	16,785	9,267	5,019	2,191	308	0	0	0
Other	235	0	46	189	105	56	25	3	0	0	0
Total	88,052	64,438	4,625	18,989	10,559	5,629	2,490	311	0	0	0

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	2,417	1,769	127	521	290	154	68	9	0	0	0
State Aid	44,028	32,219	2,313	9,496	5,280	2,815	1,245	156	0	0	0
WSSC Bonds	41,607	30,450	2,185	8,972	4,989	2,660	1,177	146	0	0	0

COMPARISON (\$000)

	Total	Thru 6 Year						Beyond		Approp. Request		
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17		FY18	6 Years
Current Approved	84,265	64,478	8,264	11,523	9,440	1,074	650	359	0	0	0	0
Agency Request	87,744	64,438	5,992	17,314	11,894	4,497	717	206	0	0	0	11,894
Recommended	88,052	64,438	4,625	18,989	10,559	5,629	2,490	311	0	0	0	10,559
CHANGE			TOTAL	%	6-YEAR	%				APPROP.		
Agency Request vs Approved			3,479	4.1%	5,791	50.3%				11,894	0.0%	
Recommended vs Approved			3,787	4.5%	7,466	64.8%				10,559	0.0%	
Recommended vs Request			308	0.4%	1,675	9.7%				(1,335)	(11.2%)	

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Biological Nutrient Removal" capital project. The Executive recommends changes in project estimates to align with the amounts proposed by the District of Columbia Water and Sewer Authority (now doing business as DC Water) in its Proposed FY2011-2020 CIP. The changes reflect minor adjustments to the cost estimates for some of the sub-projects included in the Biological Nutrient Removal project.

A. Identification and Coding Information

1. Project Number: 973817 | Agency Number: S-22.08 | Update Code: Change

2. Date: October 1, 2011 | Revised: _____

3. Project Name: Blue Plains WWTP: Biological Nutrient Removal

4. Program: Sanitation | 5. Agency: WSSC | 6. Planning Area: BI-County

7. Pre PDF Pg.No.: _____ | 8. Req. Adeq. Pub. Fac. _____

E. Annual Operating Budget Impact (000's)

			FY of Impact
Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	3616	17
Total Costs		3616	17
Impact on Water or Sewer Rate		8¢	17

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
Planning, Design & Supervision	18,850	15,981	1,151	1,718	1,108	609					
Land											
Site Improvements & Utilities											
Construction	68,663	48,457	4,782	16,424	10,667	3,843	710	204			
Other	231		59	172	118	45	7	2			
Total	87,744	64,438	5,992	17,314	11,894	4,497	717	206			

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 96
Date First Approved	FY 96
Initial Cost Estimate	12,189
Cost Estimate Last FY	84,265
Present Cost Estimate	87,744
Approved Request, Last FY	8,264
Total Expenditures & Encumbrances	64,438
Approval Request FY 13	11,894
Supplemental Approval Request Current FY (12)	

C. Funding Schedule (000's)

WSSC Bonds	41,464	30,450	2,832	8,182	5,821	2,125	339	97			
State Aid	43,872	32,219	2,996	8,657	5,947	2,249	358	103			
City of Rockville	2,408	1,769	164	475	326	123	20	6			

G. Status Information

Land Status: Not applicable

% Project Completion: C-90%

Est. Completion Date: FY 2016

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of the Blue Plains Biological Nutrient Removal Pilot Project and BNR Permanent Facility design and construction. The project includes modifications to the nitrification basins, methanol storage and feed facilities, a control building, addition of fine bubble diffusers, and improvements to the nitrification facilities (Phase II). This project is stipulated in the 1995 Consent Decree signed by the District of Columbia and the United States Department of Justice.

Service Area BI-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies
Porter, MacNamee & Seely Study (1992); Civil Action No. 90-163; Civil Action No. 84-2842 JGP; the DCWASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data
The initial \$12.1 million Pilot Project was planned as a phased, four year, half-plant trial. For the Pilot, portions of the nitrification basins were converted to anoxic zones with methanol added as the carbon source. After the Pilot Project proved successful in the first two years, the third and fourth years were not required and the design and construction of permanent BNR facilities commenced. The Consent Decree acknowledged that applying this technology was experimental.

Cost Change
Cost increase is based upon actual expenditure data as Nitrification/Denitrification facilities progress through construction.

STATUS Under Construction

OTHER
The project scope has remained the same. The expenditure schedule shown above reflects the cost of permanent BNR facilities as required under the Consent Decree. Phase I and portions of Phase II are complete. The Maryland Department of the Environment (MDE) has, by agreement, committed to providing 50% grant funding for eligible costs.

COORDINATION
City of Rockville (responsible for a share of funding), Maryland Department of the Environment and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.

H. Map Map Reference Code:

MAP NOT AVAILABLE

EXECUTIVE RECOMMENDATION

Blue Plains WWTP: Biosolids Mgmt PT2 - No. 954812

Category: **WSSC**
 Agency: **W.S.S.C.**
 Planning Area: **Bi-County**
 Relocation Impact: **None**

Date Last Modified: **December 16, 2011**
 Required Adequate Public Facility: **No**

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru		Rem. 6 Year			Beyond				
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years
Planning, Design and Supervision	85,955	57,488	11,732	16,735	7,998	6,334	1,533	357	372	141	0
Construction	286,642	84,957	55,111	146,574	101,249	33,493	7,283	3,266	1,225	58	0
Other	2,300	0	668	1,632	1,092	398	88	36	16	2	0
Total	374,897	142,445	67,511	164,941	110,339	40,225	8,904	3,659	1,613	201	0

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	20,580	7,819	3,706	9,055	6,057	2,208	489	201	89	11	0
System Development Charge	0	0	0	0	0	0	0	0	0	0	0
WSSC Bonds	354,317	134,626	63,805	155,886	104,282	38,017	8,415	3,458	1,524	190	0

COMPARISON (\$000)

	Total	Thru		Rem. 6 Year			Beyond					Approp. Request
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years	
Current Approved	340,420	142,707	62,573	135,077	88,830	37,326	5,668	2,861	392	0	63	0
Agency Request	376,062	142,445	70,684	162,931	111,139	38,977	4,714	5,141	2,491	469	2	111,139
Recommended	374,897	142,445	67,511	164,941	110,339	40,225	8,904	3,659	1,613	201	0	110,339
CHANGE												
Agency Request vs Approved			35,642	10.5%	27,854	20.6%	111,139	0.0%				
Recommended vs Approved			34,477	10.1%	29,864	22.1%	110,339	0.0%				
Recommended vs Request			(1,165)	(0.3%)	2,010	1.2%	(800)	(0.7%)				

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Biosolids Management Part 2" capital project. The Executive recommends changes in project estimates to align with the amounts proposed by the District of Columbia Water and Sewer Authority (now doing business as DC Water) in its Proposed FY2011-2020 CIP. The changes reflect minor adjustments to the cost estimates for some of the sub-projects included in the Biosolids Management project.

A. Identification and Coding Information

1. Project Number: 954812 Agency Number: S-22.07 Update Code: Change

2. Date: October 1, 2011 Revised:

3. Project Name: Blue Plains WWTP: Biosolids Management, Part 2

4. Program: Sanitation 5. Agency: WSSC 6. Planning Area: BI-County

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	.....	30992
Total Costs		.....	30992
Impact on Water or Sewer Rate		.....	67¢

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
Planning, Design & Supervision	86,416	57,488	10,538	18,389	8,889	6,528	1,397	611	628	338	1
Land											
Site Improvements & Utilities											
Construction	287,332	84,957	59,446	142,928	101,150	32,063	3,270	4,479	1,840	126	1
Other	2,314		700	1,614	1,100	386	47	51	25	5	
Total	376,062	142,445	70,684	162,931	111,139	38,977	4,714	5,141	2,491	469	2

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	77,296
Cost Estimate Last FY	340,420
Present Cost Estimate	376,062
Approved Request, Last FY	62,573
Total Expenditures & Encumbrances	142,445
Approval Request FY 13	111,139
Supplemental Approval Request Current FY (12)	

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	355,418	134,626	66,804	153,986	105,038	36,837	4,455	4,859	2,354	443	2
City of Rockville	20,644	7,819	3,880	8,945	6,101	2,140	259	282	137	26	

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of the Blue Plains biosolids handling projects for which construction began after June 30, 1993. Major projects include: new digestion facilities; gravity and centrifuge thickener facilities; area electrical substation #6; and solids processing building/dewatered sludge loading facility.

Service Area BI-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies

The Blue Plains Intermunicipal Agreement of 1985; the DCWASA Master Plan (1998); EPMC IV Facility Plan (CH2MHILL, 2001); the Biosolids Management at DCWASA Blue Plains Wastewater Treatment Plant Phase II - Design and Cost Considerations for Treatment Alternatives Report (December 2007); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data

This project is needed to implement a set of facilities which will provide a permanent biosolids management program for Blue Plains.

Cost Change

Cost increase is primarily due to refined estimates as the Anaerobic Digesters and Gravity Thickening Facilities progress through design, and higher costs associated with program management.

STATUS Not Applicable

OTHER

The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast of spending and DCWASA's latest project management data, and fully reflect DCWASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

City of Rockville (responsible for a share of funding) and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% System Improvement.

G. Status Information

Land Status: Not applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

EXECUTIVE RECOMMENDATION

Blue Plains WWTP: Enhanced Nutrient Removal - No. 083800

Category: **WSSC**
 Agency: **W.S.S.C.**
 Planning Area: **Bi-County**
 Relocation Impact: **None**

Date Last Modified: **December 16, 2011**
 Required Adequate Public Facility: **No**

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru			Rem. 6 Year			Beyond			
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years
Planning, Design and Supervision	100,061	33,850	15,940	47,965	17,780	12,461	7,261	4,256	3,257	2,950	2,306
Construction	291,727	7,967	48,648	234,873	54,871	46,760	38,402	45,836	39,946	9,058	239
Other	3,499	0	646	2,828	726	592	457	501	432	120	25
Total	395,287	41,817	65,234	285,666	73,377	59,813	46,120	50,593	43,635	12,128	2,570

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	11,123	498	1,100	9,387	1,556	1,362	1,198	2,454	2,196	621	138
State Aid	192,638	32,740	45,194	114,664	45,037	35,023	24,295	5,890	3,612	807	40
WSSC Bonds	191,526	8,579	18,940	161,615	26,784	23,428	20,627	42,249	37,827	10,700	2,392

COMPARISON (\$000)

	Total	Thru	Rem. 6 Year								Beyond	Approp.
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years	Request
Current Approved	405,761	36,896	61,080	302,563	79,145	79,813	42,818	56,664	44,123	0	5,222	0
Agency Request	427,912	36,659	89,325	299,101	84,395	56,537	75,743	60,577	19,778	2,071	2,827	84,395
Recommended	395,287	41,817	65,234	285,666	73,377	59,813	46,120	50,593	43,635	12,128	2,570	73,377
CHANGE				TOTAL	%	6-YEAR	%			APPROP.		
Agency Request vs Approved				22,151	5.5%	(3,462)	(1.1%)			84,395	0.0%	
Recommended vs Approved				(10,474)	(2.6%)	(16,897)	(5.6%)			73,377	0.0%	
Recommended vs Request				(32,625)	(7.6%)	(13,435)	(4.5%)			(11,018)	(13.1%)	

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Enhanced Nutrient Removal" capital project. The Executive recommends changes in project estimates to align with the amounts proposed by the District of Columbia Water and Sewer Authority (now doing business as DC Water) in its Proposed FY2011-2020 CIP. The changes are due to improved cost estimates as sub-projects move into design and become more precisely defined.

EXECUTIVE RECOMMENDATION

Blue Plains WWTP: Liquid Train PT 2 - No. 954811

Category: **WSSC**
 Agency: **W.S.S.C.**
 Planning Area: **Bi-County**
 Relocation Impact: **None**

Date Last Modified: **December 16, 2011**
 Required Adequate Public Facility: **No**

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru		Rem. 6 Year		Beyond					
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years
Planning, Design and Supervision	52,781	40,769	2,671	8,829	3,388	2,634	741	670	704	692	512
Construction	212,795	181,638	5,785	21,166	5,976	2,302	1,040	1,829	6,061	3,958	4,206
Other	433	0	85	301	94	49	18	25	68	47	47
Total	266,009	222,407	8,541	30,296	9,458	4,985	1,799	2,524	6,833	4,697	4,765

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	14,604	12,209	469	1,664	519	274	99	139	375	258	262
System Development Charge	0	0	0	0	0	0	0	0	0	0	0
WSSC Bonds	251,405	210,198	8,072	28,632	8,939	4,711	1,700	2,385	6,458	4,439	4,503

COMPARISON (\$000)

	Total	Thru		Rem. 6 Year		Beyond						Approp. Request
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years	
Current Approved	260,854	222,443	9,454	22,162	7,742	4,038	2,006	1,971	6,405	0	6,795	0
Agency Request	265,857	222,407	8,592	30,080	7,803	4,668	1,619	3,171	7,643	5,176	4,778	7,803
Recommended	266,009	222,407	8,541	30,296	9,458	4,985	1,799	2,524	6,833	4,697	4,765	9,458
CHANGE				TOTAL	%	6-YEAR	%			APPROP.		
Agency Request vs Approved				5,003	1.9%	7,918	35.7%			7,803	0.0%	
Recommended vs Approved				5,155	2.0%	8,134	36.7%			9,458	0.0%	
Recommended vs Request				152	0.1%	216	0.7%			1,655	21.2%	

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Liquid Train Part 2" capital project. The Executive recommends changes in project estimates to align with the amounts proposed by the District of Columbia Water and Sewer Authority (now doing business as DC Water) in its Proposed FY2011-2020 CIP. The changes reflect minor adjustments to the cost estimates for some of the sub-projects included in the Liquid Train Part 2 project.

A. Identification and Coding Information

2. Date: October 1, 2011 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

1. Project Number	Agency Number	Update Code	Revised:	
954811	S-22.08	Change		

3. Project Name: Blue Plains WWTP: Liquid Train Projects, Part 2 5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: **BI-County**

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	21910
Total Costs.....		21910
Impact on Water or Sewer Rate.....		47¢

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
Planning, Design & Supervision	52,660	40,769	2,098	9,179	1,884	2,296	1,148	1,355	1,361	1,135	514
Land											
Site Improvements & Utilities											
Construction	212,868	181,838	6,409	20,604	5,842	2,326	455	1,785	6,206	3,990	4,217
Other	429		85	297	77	46	18	31	76	51	47
Total	265,857	222,407	8,592	30,080	7,803	4,668	1,619	3,171	7,643	5,176	4,778

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	251,263	210,198	8,120	28,429	7,375	4,412	1,530	2,997	7,223	4,892	4,516
City of Rockville	14,594	12,209	472	1,651	428	256	89	174	420	284	262

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of Blue Plains liquid train projects for which construction began after June 30, 1993. Major projects include: Filtration and Disinfection Rehabilitation, Raw Wastewater Pumping Station No. 2, and Dual Purpose Sedimentation Basins Rehabilitation.

Service Area: BI-County Area Capacity: 370 MGD

JUSTIFICATION

Plans & Studies
The Blue Plains Intermunicipal Agreement of 1985; the DCWASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data
This is a continuation of the DCWASA's upgrading of the Blue Plains Wastewater Treatment Plant.

Cost Change
Cost increase is primarily due to further revised higher estimates for the Primary Treatment Facilities Phase II Upgrade and Grit Chamber Phase II Upgrade projects in later years.

STATUS Not Applicable

OTHER
The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast of spending and DCWASA's latest project management data, and fully reflect DCWASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION
City of Rockville (responsible for a share of funding), District of Columbia Water & Sewer Authority (responsible for design and construction) and WSSC Projects S-22.08, Blue Plains WWTP: Biological Nutrient Removal and S-22.10, Blue Plains WWTP: Enhanced Nutrient Removal.

NOTE This project supports 100% System Improvement.

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	69,745
Cost Estimate Last FY	260,854
Present Cost Estimate	265,857
Approved Request, Last FY	9,454
Total Expenditures & Encumbrances	222,407
Approval Request FY 13	7,803
Supplemental Approval Request Current FY (12)	

G. Status Information

Land Status: Not applicable
 % Project Completion: On-Going
 Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

40-12

EXECUTIVE RECOMMENDATION

Blue Plains WWTP:Plant Wide Projects - No. 023805

Category: **WSSC**
 Agency: **W.S.S.C.**
 Planning Area: **Bi-County**
 Relocation Impact: **None**

Date Last Modified: **December 16, 2011**
 Required Adequate Public Facility: **No**

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru			Rem. 6 Year			Beyond			
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years
Planning, Design and Supervision	49,184	42,066	1,233	5,310	1,949	1,346	675	284	629	427	575
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	154,162	115,758	7,777	26,602	8,116	6,372	2,675	1,511	1,553	6,375	4,025
Other	456	0	90	320	101	77	34	18	22	68	46
Total	203,802	157,824	9,100	32,232	10,166	7,795	3,384	1,813	2,204	6,870	4,646

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	11,189	8,664	500	1,770	558	428	186	100	121	377	255
State Aid	0	0	0	0	0	0	0	0	0	0	0
System Development Charge	0	0	0	0	0	0	0	0	0	0	0
WSSC Bonds	192,613	149,160	8,600	30,462	9,608	7,367	3,198	1,713	2,083	6,493	4,391

COMPARISON (\$000)

	Total	Thru			Rem. 6 Year			Beyond				Approp.
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years	Request
Current Approved	198,769	157,934	7,731	22,304	10,117	5,297	3,353	1,920	1,617	0	10,800	0
Agency Request	201,943	157,824	9,894	29,502	7,801	6,230	3,656	2,242	2,518	7,055	4,723	7,801
Recommended	203,802	157,824	9,100	32,232	10,166	7,795	3,384	1,813	2,204	6,870	4,646	10,166
CHANGE												
Agency Request vs Approved			3,174		1.6%	7,198	32.3%		7,801	0.0%		
Recommended vs Approved			5,033		2.5%	9,928	44.5%		10,166	0.0%		
Recommended vs Request			1,859		0.9%	2,730	9.3%		2,365	30.3%		

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Plant Wide Projects" capital project. The Executive recommends changes in project estimates to align with the amounts proposed by the District of Columbia Water and Sewer Authority (now doing business as DC Water) in its Proposed FY2011-2020 CIP. The changes reflect minor adjustments to the cost estimates for some of the sub-projects included under Plant Wide Projects.

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
023805	S-22.09	Change

2. Date: October 1, 2011

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

Revised:

5. Agency: **WSSC**

3. Project Name: Blue Plains WWTP: Plant-wide Projects

4. Program: **Sanitation** 6. Planning Area: **BI-County**

E. Annual Operating Budget Impact (000's)

FY of Impact

Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	16643
Total Costs.....		16643
Impact on Water or Sewer Rate.....		36¢

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 95
Date First Approved	FY 02
Initial Cost Estimate	84,650
Cost Estimate Last FY	198,769
Present Cost Estimate	201,943
Approved Request, Last FY	7,731
Total Expenditures & Encumbrances	157,824
Approval Request FY 13	7,801
Supplemental Approval Request Current FY (12)	

G. Status Information

Land Status:	Not applicable
% Project Completion:	On-Going
Est. Completion Date:	On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
Planning, Design & Supervision	48,738	42,066	981	5,114	1,027	941	978	693	899	578	577
Land											
Site Improvements & Utilities											
Construction	152,768	115,758	8,815	24,096	6,697	5,227	2,644	1,527	1,594	6,407	4,099
Other	437		98	292	77	62	36	22	25	70	47
Total	201,943	167,824	9,894	29,502	7,801	6,230	3,656	2,242	2,618	7,055	4,723

C. Funding Schedule (000's)

	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
WSSC Bonds	190,858	149,160	9,351	27,883	7,373	5,888	3,455	2,119	2,380	6,668	4,464
City of Rockville	11,085	8,664	543	1,619	428	342	201	123	138	387	259

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of Blue Plains plant-wide projects for which construction began after June 30, 1993. Major projects include: Process Control Computer Systems; Electrical Power Systems Additions, Phases I & II; High Priority Rehabilitation Program; and Plant-wide Fine Bubble Aeration Conversion.

Service Area BI-County Area

Capacity 370 MGD

JUSTIFICATION

Plans & Studies

The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data

This is a continuation of the DCWASA's upgrading of the Blue Plains Wastewater Treatment Plant.

Cost Change

Not applicable.

STATUS Not Applicable

OTHER

The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect DCWASA's current expenditure estimates and schedules. Given the open-ended nature of the project, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

City of Rockville (responsible for a share of funding) and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% System Improvement.

EXECUTIVE RECOMMENDATION

Blue Plains: Pipelines and Appurtenances - No. 113804

Category: **WSSC**
 Agency: **W.S.S.C.**
 Planning Area: **Bi-County**
 Relocation Impact: **None**

Date Last Modified: **December 16, 2011**
 Required Adequate Public Facility: **No**

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru		6 Year						Beyond	
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years
Planning, Design and Supervision	33,056	6,847	4,079	17,260	3,813	3,254	2,656	2,469	2,571	2,497	4,870
Construction	83,264	18,321	6,219	54,122	8,917	11,472	14,980	11,136	6,026	1,591	4,602
Other	911	0	103	713	127	147	176	136	86	41	95
Total	117,231	25,168	10,401	72,095	12,857	14,873	17,812	13,741	8,683	4,129	9,567

FUNDING SCHEDULE (\$000)

Contributions	0	0	0	0	0	0	0	0	0	0	0
Municipal (WSSC only)	6,436	1,382	571	3,958	706	816	978	754	477	227	525
WSSC Bonds	110,795	23,786	9,830	68,137	12,151	14,057	16,834	12,987	8,206	3,902	9,042

COMPARISON (\$000)

	Total	Thru		6 Year						Beyond		Approp. Request
		FY11	FY12	Total	FY13	FY14	FY15	FY16	FY17	FY18	6 Years	
Current Approved	95,868	25,253	10,139	51,170	12,612	9,297	9,831	9,190	10,240	0	9,306	0
Agency Request	113,466	25,168	10,466	68,769	13,263	12,645	15,353	13,488	9,244	4,776	9,063	13,263
Recommended	117,231	25,168	10,401	72,095	12,857	14,873	17,812	13,741	8,683	4,129	9,567	12,857
CHANGE				TOTAL	%	6-YEAR	%			APPROP.		
Agency Request vs Approved				17,598	18.4%	17,599	34.4%			13,263	0.0%	
Recommended vs Approved				21,363	22.3%	20,925	40.9%			12,857	0.0%	
Recommended vs Request				3,765	3.3%	3,326	4.8%			(406)	(3.1%)	

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Pipelines and Appurtenances" capital project. The Executive recommends changes in project estimates to align with the amounts proposed by the District of Columbia Water and Sewer Authority (now doing business as DC Water) in its Proposed FY2011-2020 CIP. The changes are due to the inclusion of some new sub-projects in the Pipelines and Appurtenances project.

A. Identification and Coding Information

1. Project Number: 113804 Agency Number: S-22.11 Update Code: Change

2. Date: October 1, 2011 Revised: _____

3. Project Name: Blue Plains: Pipelines & Appurtenances

4. Program: Sanitation 5. Agency: WSSC 6. Planning Area: BI-County

7. Pre PDF Pg.No.: _____ 8. Req. Adeq. Pub. Fac. _____

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
Planning, Design & Supervision	28,518	6,847	3,034	14,261	2,085	2,384	2,485	2,468	2,542	2,297	4,376
Land											
Site Improvements & Utilities											
Construction	84,073	18,321	7,328	53,827	11,047	10,136	12,716	10,886	6,610	2,432	4,597
Other	875		104	681	131	125	152	134	92	47	90
Total	113,466	25,168	10,466	68,769	13,263	12,645	15,353	13,488	9,244	4,776	9,063

C. Funding Schedule (000's)

	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
WSSC Bonds	107,237	23,786	9,891	64,995	12,535	11,951	14,510	12,748	8,737	4,514	8,565
City of Rockville	6,229	1,382	575	3,774	728	694	843	740	507	262	498

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of Blue Plains-associated projects which are "outside the fence" of the treatment plant. Major projects include: Potomac Interceptor Rehabilitation; Upper Potomac Interceptor; Potomac Sewage Pumping Station Rehabilitation; Influent Sewers Rehabilitation; and the new projects associated with the Combined Sewer Overflow (CSO) Long Term Control Plan (e.g. Anacostia Tunnel).

Service Area BI-County Area **Capacity** Various

JUSTIFICATION

Plans & Studies
The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DCWASA Approved FY 2010 - FY 2019 Capital Improvement Program (February 3, 2011).

Specific Data
This is a continuation of DCWASA's upgrading of the Blue Plains-associated projects outside the fence.

Cost Change
Cost increase is due to the increased attention to DC sewers, including new projects to rehabilitate interceptor sewers that carry WSSC wastewater through DC to the Blue Plains WWTP, especially: Upper Rock Creek Interceptor, Anacostia Force Main, and Oxon Run Sewer.

STATUS Not Applicable

OTHER
The project scope has remained the same. Project costs are derived from the DC-WASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect WASA's current expenditure estimates and schedules. Given the open-ended nature of the project, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION
City of Rockville (responsible for a share of funding) and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 45% System Improvement and 55% Environmental Regulation.

E. Annual Operating Budget Impact (000's)

	FY of Impact	
Program Costs	Staff Other .....	........
Facility Costs	Maintenance .....	....
	Debt Service	9351
Total Costs		9351
Impact on Water or Sewer Rate		20¢

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 11
Date First Approved	FY 02
Initial Cost Estimate	102,833
Cost Estimate Last FY	95,868
Present Cost Estimate	113,466
Approved Request, Last FY	10,139
Total Expenditures & Encumbrances	25,168
Approval Request FY 13	13,263
Supplemental Approval Request Current FY (12)	

G. Status Information

Land Status: Not Applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

40-16

Expenditure Detail by Category, Sub-Category, and Project (\$000s)

WSSC

Project	Total	Thru FY11	Rem. FY12	6 Year Total	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6-yrs.	Approp.
<i>Sewerage Bi-County</i>												
093802 Anacostia No. 2 Screenings Handling Facilities	2,557	293	2,172	92	92	0	0	0	0	0	0	92
083807 Anacostia Storage Facility	19,358	3,861	5,500	9,997	6,050	3,947	0	0	0	0	0	6,050
973817 Blue Plains WWTP: Biological Nutrient Removal	88,052	64,438	4,625	18,989	10,559	5,629	2,490	311	0	0	0	10,559
954812 Blue Plains WWTP: Biosolids Mgmt PT2	374,897	142,445	67,511	164,941	110,339	40,225	8,904	3,659	1,613	201	0	110,339
083800 Blue Plains WWTP: Enhanced Nutrient Removal	395,287	41,817	65,234	285,666	73,377	59,813	46,120	50,593	43,635	12,128	2,570	73,377
954811 Blue Plains WWTP: Liquid Train PT 2	266,009	222,407	8,541	30,296	9,458	4,985	1,799	2,524	6,833	4,697	4,765	9,458
023805 Blue Plains WWTP: Plant Wide Projects	203,802	157,824	9,100	32,232	10,166	7,795	3,384	1,813	2,204	6,870	4,646	10,166
113804 Blue Plains: Pipelines and Appurtenances	117,231	25,168	10,401	72,095	12,857	14,873	17,812	13,741	8,683	4,129	9,567	12,857
103802 Septage Discharge Facility Planning & Implement.	11,166	785	41	10,340	330	330	7,260	2,420	0	0	0	330
113805 Trunk Sewer Reconstruction Program	228,982	1,381	19,946	207,655	52,286	43,120	18,435	32,890	30,462	30,462	0	52,286
*093805 Wastewater Pumping Station Capacity Evaluation	158	158	0	0	0	0	0	0	0	0	0	0
Sub-Category Total	1,707,499	660,577	193,071	832,303	285,514	180,717	106,204	107,951	93,430	58,487	21,548	285,514
<i>Sewerage Montgomery County</i>												
023807 Cabin Branch WWPS	2,207	12	10	2,185	30	535	1,620	0	0	0	0	30
023808 Cabin Branch WWPS Force Main	399	0	17	382	134	228	20	0	0	0	0	134
*053800 Casey West Property Sewer Main	428	428	0	0	0	0	0	0	0	0	0	0
*023806 Clarksburg Triangle Outfall Sewer, Part 1	1,652	1,652	0	0	0	0	0	0	0	0	0	0
023811 Clarksburg Triangle Outfall Sewer, Part 2	2,393	80	579	1,734	1,306	388	40	0	0	0	0	1,306
063802 Damascus Centre WWPS Replacement	1,282	0	24	1,258	28	254	976	0	0	0	0	28
073801 Damascus WWTP Enhanced Nutrient Removal	7,301	1,138	3,800	2,363	2,363	0	0	0	0	0	0	2,363
983854 Land & Rights-of-Way Acquisition-Mont County (S)	320	0	300	20	10	10	0	0	0	0	0	10
123800 Montgomery College Germantown Campus Sewer	746	178	284	284	284	0	0	0	0	0	0	284
103800 Preserve at Rock Creek Wastewater Pumping Station	1,159	0	667	492	492	0	0	0	0	0	0	492
103801 Preserve at Rock Creek WWPS Force Main	370	16	15	339	171	168	0	0	0	0	0	171

* Pending Close Out or Close Out

Expenditure Detail by Category, Sub-Category, and Project (\$000s)

WSSC

Project	Total	Thru	Rem.	6 Year	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6-yrs.	Approp.
		FY11	FY12	Total								
113801 Reddy Branch WWPS Augmentation	180	0	90	90	90	0	0	0	0	0	0	90
073800 Seneca WWTP Enhanced Nutrient Removal	13,221	2,202	4,048	6,971	5,330	1,090	551	0	0	0	0	5,330
083802 Seneca WWTP Expansion, Part 2	32,134	2,905	8,422	20,807	11,691	6,366	2,750	0	0	0	0	11,691
083803 Tapestry Wastewater Pumping Station	644	7	299	338	169	169	0	0	0	0	0	169
083804 Tapestry WWPS Force Main	126	8	46	72	47	25	0	0	0	0	0	47
083801 Twinbrook Commons Sewer	951	566	55	330	110	97	93	30	0	0	0	110
063803 White Flint East (No. Bethesda Center) Sewer Main	2,269	218	1,740	311	292	19	0	0	0	0	0	292
Sub-Category Total	67,782	9,410	20,396	37,976	22,547	9,349	6,050	30	0	0	0	22,547
<i>Water Bi-County</i>												
934855 Bi-County Water Tunnel	157,606	57,758	44,961	54,887	44,072	10,815	0	0	0	0	0	44,072
073802 Duckett and Brighton Dam Upgrades	18,464	2,112	5,238	11,114	10,258	856	0	0	0	0	0	10,258
983857 Land & Rights-of-Way Acquisition - Bi-County	110	0	30	80	30	50	0	0	0	0	0	30
113803 Large Diameter Water Pipe Rehabilitation Program	181,223	10,100	15,202	155,921	23,714	23,819	23,819	24,523	30,023	30,023	0	23,714
063804 Patuxent Raw Water Pipeline	21,770	6,375	2,289	13,106	2,987	958	2,737	3,678	2,746	0	0	2,987
033807 Patuxent WFP Phase II Expansion	64,811	4,694	1,615	58,502	18,260	22,994	14,373	2,875	0	0	0	18,260
033811 Potomac WFP Improvements	130,705	127,162	3,322	221	221	0	0	0	0	0	0	221
133800 Potomac WFP Main Zone Pipeline	330	0	0	330	165	165	0	0	0	0	0	165
113802 Potomac WFP Outdoor Substation No. 2 Replacement	9,477	118	920	8,439	575	1,898	3,163	2,105	698	0	0	575
113806 Potomac WFP Stage 2 Disinfection Byproducts Rule I	9,457	1,295	638	7,524	6,575	949	0	0	0	0	0	6,575
033812 Potomac WFP Submerged Channel Intake	26,714	1,974	333	24,407	405	1,164	990	5,997	13,618	2,233	0	405
033805 Power Reliability and Arc Flash Studies	5,537	522	2,715	2,300	2,300	0	0	0	0	0	0	2,300
063805 Rocky Gorge Pump Station Upgrade	16,613	3,936	165	12,512	4,077	6,339	2,096	0	0	0	0	4,077
Sub-Category Total	642,817	216,046	77,428	349,343	113,639	70,007	47,178	39,178	47,085	32,256	0	113,639
<i>Water Montgomery County</i>												
113800 Clarksburg Area Stage 3 Water Main, Part 4	2,073	68	554	1,451	1,176	190	85	0	0	0	0	1,176
973818 Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3	3,803	84	335	3,384	1,778	1,119	399	88	0	0	0	1,778
973819 Clarksburg Elevated Water Storage Facility	4,313	142	21	4,150	21	144	145	1,923	1,917	0	0	21
093800 Countryside Drive Water Loop	352	81	254	17	17	0	0	0	0	0	0	17

* Pending Close Out or Close Out

CIP230 - Recommended

Expenditure Detail by Category, Sub-Category, and Project (\$000s)

WSSC

Project	Total	Thru FY11	Rem. FY12	6 Year Total	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6-yrs.	Approp.
983849 Land & Rights-of-Way Acquisition-Mont County (W)	202	0	102	100	0	100	0	0	0	0	0	0
023800 Laytonsville Elevated Tank and Pumping Station	5,521	857	1,593	3,071	2,277	794	0	0	0	0	0	2,277
013802 Newcut Road Water Main, Part 2	1,126	306	136	684	255	429	0	0	0	0	0	255
063801 Olney Standpipe Replacement	6,606	1,020	324	5,262	3,220	2,042	0	0	0	0	0	3,220
093801 Shady Grove Standpipe Replacement	8,598	211	316	8,071	1,884	5,442	745	0	0	0	0	1,884
Sub-Category Total	32,594	2,769	3,635	26,190	10,628	10,260	1,374	2,011	1,917	0	0	10,628
Category Total	2,450,692	888,802	294,530	1,245,812	432,328	270,333	160,806	149,170	142,432	90,743	21,548	432,328

40-19

Expenditure Summary by Category, Sub-Category, and Project (\$000s)

Category: WSSC

		Total	Thru FY11	Est. FY12	6 Year Total	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6 Years	Approp Request
Sewerage Bi-County													
093802	Anacostia No. 2 Screenings Handling Facilities	2,557	293	2,172	92	92	0	0	0	0	0	0	92
083807	Anacostia Storage Facility	19,358	3,861	5,500	9,997	6,050	3,947	0	0	0	0	0	6,050
973817	Blue Plains WWTP: Biological Nutrient Removal	87,744	64,438	5,992	17,314	11,894	4,497	717	206	0	0	0	11,894
954812	Blue Plains WWTP: Biosolids Mgmt PT2	376,062	142,445	70,684	162,931	111,139	38,977	4,714	5,141	2,491	469	2	111,139
083800	Blue Plains WWTP: Enhanced Nutrient Removal	427,912	36,659	89,325	299,101	84,395	56,537	75,743	60,577	19,778	2,071	2,827	84,395
954811	Blue Plains WWTP: Liquid Train PT 2	265,857	222,407	8,592	30,080	7,803	4,668	1,619	3,171	7,643	5,176	4,778	7,803
023805	Blue Plains WWTP: Plant Wide Projects	201,943	157,824	9,894	29,502	7,801	6,230	3,656	2,242	2,518	7,055	4,723	7,801
113804	Blue Plains: Pipelines and Appurtenances	113,466	25,168	10,466	68,769	13,263	12,645	15,353	13,488	9,244	4,776	9,063	13,263
103802	Septage Discharge Facility Planning & Implement.	11,166	785	41	10,340	330	330	7,260	2,420	0	0	0	330
113805	Trunk Sewer Reconstruction Program	228,982	1,381	19,946	207,655	52,286	43,120	18,435	32,890	30,462	30,462	0	52,286
093805	Wastewater Pumping Station Capacity Evaluation	158	158	0	0	0	0	0	0	0	0	0	0
40-20	SubCategory Total	1,735,205	655,419	222,612	835,781	295,053	170,951	127,497	120,135	72,136	50,009	21,393	295,053
Sewerage Montgomery County													
023807	Cabin Branch WWPS	2,207	12	10	2,185	30	535	1,620	0	0	0	0	30
023808	Cabin Branch WWPS Force Main	399	0	17	382	134	228	20	0	0	0	0	134
053800	Casey West Property Sewer Main	428	428	0	0	0	0	0	0	0	0	0	0
023806	Clarksburg Triangle Outfall Sewer, Part 1	1,652	1,652	0	0	0	0	0	0	0	0	0	0
023811	Clarksburg Triangle Outfall Sewer, Part 2	2,393	80	579	1,734	1,306	388	40	0	0	0	0	1,306
063802	Damascus Centre WWPS Replacement	1,282	0	24	1,258	28	254	976	0	0	0	0	28
073801	Damascus WWTP Enhanced Nutrient Removal	7,301	1,138	3,800	2,363	2,363	0	0	0	0	0	0	2,363
983854	Land & Rights-of-Way Acquisition-Montgomery County (S)	320	0	300	20	10	10	0	0	0	0	0	10
123800	Montgomery College Germantown Campus Sewer	746	178	284	284	284	0	0	0	0	0	0	284
103800	Preserve at Rock Creek Wastewater Pumping Station	1,159	0	667	492	492	0	0	0	0	0	0	492
103801	Preserve at Rock Creek WWPS Force Main	370	16	15	339	171	168	0	0	0	0	0	171
113801	Reddy Branch WWPS Augmentation	180	0	90	90	90	0	0	0	0	0	0	90
073800	Seneca WWTP Enhanced Nutrient Removal	13,221	2,202	4,048	6,971	5,330	1,090	551	0	0	0	0	5,330

Expenditure Summary by Category, Sub-Category, and Project (\$000s)

Category: WSSC

	Total	Thru FY11	Est. FY12	6 Year Total	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6 Years	Approp Request	
Sewerage Montgomery County													
083802	Seneca WWTP Expansion, Part 2	32,134	2,905	8,422	20,807	11,691	6,366	2,750	0	0	0	0	11,691
083803	Tapestry Wastewater Pumping Station	644	7	299	338	169	169	0	0	0	0	0	169
083804	Tapestry WWPS Force Main	126	8	46	72	47	25	0	0	0	0	0	47
083801	Twinbrook Commons Sewer	951	566	55	330	110	97	93	30	0	0	0	110
063803	White Flint East (No. Bethesda Center) Sewer Main	2,269	218	1,740	311	292	19	0	0	0	0	0	292
SubCategory Total		67,782	9,410	20,396	37,976	22,547	9,349	6,050	30	0	0	0	22,547
Water Bi-County													
934855	Bi-County Water Tunnel	157,606	57,758	44,961	54,887	44,072	10,815	0	0	0	0	0	44,072
073802	Duckett and Brighton Dam Upgrades	18,464	2,112	5,238	11,114	10,258	856	0	0	0	0	0	10,258
983857	Land & Rights-of-Way Acquisition - Bi-County	110	0	30	80	30	50	0	0	0	0	0	30
113803	Large Diameter Water Pipe Rehabilitation Program	181,223	10,100	15,202	155,921	23,714	23,819	23,819	24,523	30,023	30,023	0	23,714
063804	Patuxent Raw Water Pipeline	21,770	6,375	2,289	13,106	2,987	958	2,737	3,678	2,746	0	0	2,987
033807	Patuxent WFP Phase II Expansion	64,811	4,694	1,615	58,502	18,260	22,994	14,373	2,875	0	0	0	18,260
033811	Potomac WFP Improvements	130,705	127,162	3,322	221	221	0	0	0	0	0	0	221
133800	Potomac WFP Main Zone Pipeline	330	0	0	330	165	165	0	0	0	0	0	165
113802	Potomac WFP Outdoor Substation No. 2 Replacement	9,477	118	920	8,439	575	1,898	3,163	2,105	698	0	0	575
113806	Potomac WFP Stage 2 Disinfection Byproducts Rule I	9,457	1,295	638	7,524	6,575	949	0	0	0	0	0	6,575
033812	Potomac WFP Submerged Channel Intake	26,714	1,974	333	24,407	405	1,164	990	5,997	13,618	2,233	0	405
033805	Power Reliability and Arc Flash Studies	5,537	522	2,715	2,300	2,300	0	0	0	0	0	0	2,300
063805	Rocky Gorge Pump Station Upgrade	16,613	3,936	165	12,512	4,077	6,339	2,096	0	0	0	0	4,077
SubCategory Total		642,817	216,046	77,428	349,343	113,639	70,007	47,178	39,178	47,085	32,256	0	113,639
Water Montgomery County													
113800	Clarksburg Area Stage 3 Water Main, Part 4	2,073	68	554	1,451	1,176	190	85	0	0	0	0	1,176
973818	Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3	3,803	84	335	3,384	1,778	1,119	399	88	0	0	0	1,778
973819	Clarksburg Elevated Water Storage Facility	4,313	142	21	4,150	21	144	145	1,923	1,917	0	0	21
093800	Countryside Drive Water Loop	352	81	254	17	17	0	0	0	0	0	0	17
983849	Land & Rights-of-Way Acquisition-Mont County (W)	202	0	102	100	0	100	0	0	0	0	0	0

40-21

Expenditure Summary by Category, Sub-Category, and Project (\$000s)

Category: WSSC

	Total	Thru FY11	Est. FY12	6 Year Total	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6 Years	Approp Request	
Water Montgomery County													
023800	Laytonsville Elevated Tank and Pumping Station	5,521	857	1,593	3,071	2,277	794	0	0	0	0	2,277	
013802	Newcut Road Water Main, Part 2	1,126	306	136	684	255	429	0	0	0	0	255	
063801	Olney Standpipe Replacement	6,606	1,020	324	5,262	3,220	2,042	0	0	0	0	3,220	
093801	Shady Grove Standpipe Replacement	8,598	211	316	8,071	1,884	5,442	745	0	0	0	1,884	
SubCategory Total		32,594	2,769	3,635	26,190	10,628	10,260	1,374	2,011	1,917	0	10,628	
Category Total		2,478,398	883,644	324,071	1,249,290	441,867	260,567	182,099	161,354	121,138	82,265	21,393	441,867

40-22

Funding Summary by Department/Agency, Category, Sub-Category and Revenue Source (\$000s)

W.S.S.C.

Funding Source	Total	Thru FY11	Rem. FY12	6 Year Total	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6 Years
WSSC											
<i>Sewerage Bi-County</i>											
Contributions	0	0	0	0	0	0	0	0	0	0	0
Contributions - Other (WSSC only)	334	38	283	13	13	0	0	0	0	0	0
Municipal (WSSC only)	66,349	32,341	6,473	26,355	9,686	5,242	3,018	3,657	3,258	1,494	1,180
State Aid	236,666	64,959	47,507	124,160	50,317	37,838	25,540	6,046	3,612	807	40
System Development Charge	1,936	386	550	1,000	605	395	0	0	0	0	0
WSSC Bonds	1,402,214	562,853	138,258	680,775	224,893	137,242	77,646	98,248	86,560	56,186	20,328
Sub-Category Total	1,707,499	660,577	193,071	832,303	285,514	180,717	106,204	107,951	93,430	58,487	21,548
<i>Sewerage Montgomery County</i>											
Contributions - Other (WSSC only)	13,364	3,165	3,712	6,487	3,045	1,639	1,773	30	0	0	0
State Aid	11,908	1,911	5,121	4,876	4,253	414	209	0	0	0	0
System Development Charge	33,015	2,905	8,629	21,481	11,750	6,493	3,238	0	0	0	0
WSSC Bonds	9,495	1,429	2,934	5,132	3,499	803	830	0	0	0	0
Sub-Category Total	67,782	9,410	20,396	37,976	22,547	9,349	6,050	30	0	0	0
<i>Water Bi-County</i>											
System Development Charge	197,177	96,930	45,991	54,256	43,741	10,515	0	0	0	0	0
WSSC Bonds	445,640	119,116	31,437	295,087	69,898	59,492	47,178	39,178	47,085	32,256	0
Sub-Category Total	642,817	216,046	77,428	349,343	113,639	70,007	47,178	39,178	47,085	32,256	0
<i>Water Montgomery County</i>											
Contributions - Other (WSSC only)	7,959	390	2,001	5,568	3,033	2,048	399	88	0	0	0
System Development Charge	9,077	1,067	738	7,272	2,474	728	230	1,923	1,917	0	0
WSSC Bonds	15,558	1,312	896	13,350	5,121	7,484	745	0	0	0	0
Sub-Category Total	32,594	2,769	3,635	26,190	10,628	10,260	1,374	2,011	1,917	0	0
Category Total	2,450,692	888,802	294,530	1,245,812	432,328	270,333	160,806	149,170	142,432	90,743	21,548
Agency Total	2,450,692	888,802	294,530	1,245,812	432,328	270,333	160,806	149,170	142,432	90,743	21,548
Grand Total	2,450,692	888,802	294,530	1,245,812	432,328	270,333	160,806	149,170	142,432	90,743	21,548

40-23

Funding Summary by Department/Agency, Category, Sub-Category and Revenue Source (\$000s)

W.S.S.C.

Funding Source	Total	Thru FY11	Rem. FY12	6 Year Total	FY13	FY14	FY15	FY16	FY17	FY18	Beyond 6 Years
WSSC											
<i>Sewerage Bi-County</i>											
Contributions	0	0	0	0	0	0	0	0	0	0	0
Contributions - Other (WSSC only)	334	38	283	13	13	0	0	0	0	0	0
Municipal (WSSC only)	64,232	31,939	6,304	24,904	9,114	4,671	3,546	4,327	2,182	1,064	1,085
State Aid	303,204	67,125	80,133	154,315	70,287	38,499	37,296	6,098	1,966	169	1,631
System Development Charge	1,936	386	550	1,000	605	395	0	0	0	0	0
WSSC Bonds	1,365,499	555,931	135,342	655,549	215,034	127,386	86,655	109,710	67,988	48,776	18,677
Sub-Category Total	1,735,205	655,419	222,612	835,781	295,053	170,951	127,497	120,135	72,136	50,009	21,393
<i>Sewerage Montgomery County</i>											
Contributions - Other (WSSC only)	13,364	3,165	3,712	6,487	3,045	1,639	1,773	30	0	0	0
State Aid	11,908	1,911	5,121	4,876	4,253	414	209	0	0	0	0
System Development Charge	33,015	2,905	8,629	21,481	11,750	6,493	3,238	0	0	0	0
WSSC Bonds	9,495	1,429	2,934	5,132	3,499	803	830	0	0	0	0
Sub-Category Total	67,782	9,410	20,396	37,976	22,547	9,349	6,050	30	0	0	0
<i>Water Bi-County</i>											
System Development Charge	197,177	96,930	45,991	54,256	43,741	10,515	0	0	0	0	0
WSSC Bonds	445,640	119,116	31,437	295,087	69,898	59,492	47,178	39,178	47,085	32,256	0
Sub-Category Total	642,817	216,046	77,428	349,343	113,639	70,007	47,178	39,178	47,085	32,256	0
<i>Water Montgomery County</i>											
Contributions - Other (WSSC only)	7,959	390	2,001	5,568	3,033	2,048	399	88	0	0	0
System Development Charge	9,077	1,067	738	7,272	2,474	728	230	1,923	1,917	0	0
WSSC Bonds	15,558	1,312	896	13,350	5,121	7,484	745	0	0	0	0
Sub-Category Total	32,594	2,769	3,635	26,190	10,628	10,260	1,374	2,011	1,917	0	0
Category Total	2,478,398	883,644	324,071	1,249,290	441,867	260,567	182,099	161,354	121,138	82,265	21,393
Agency Total	2,478,398	883,644	324,071	1,249,290	441,867	260,567	182,099	161,354	121,138	82,265	21,393
Grand Total	2,478,398	883,644	324,071	1,249,290	441,867	260,567	182,099	161,354	121,138	82,265	21,393

40-24

**FY13-18 EXECUTIVE RECOMMENDED CIP
Agency Request Compared to Executive Recommended
WSSC**

Project	Project Name	Agency Request	Executive Recommended
093802	Anacostia No. 2 Screenings Handling Facilities	92	92
083807	Anacostia Storage Facility	9,997	9,997
934855	Bi-County Water Tunnel	54,887	54,887
973817	Blue Plains WWTP: Biological Nutrient Removal	17,314	18,989
954812	Blue Plains WWTP: Biosolids Mgmt PT2	162,931	164,941
083800	Blue Plains WWTP: Enhanced Nutrient Removal	299,101	285,666
954811	Blue Plains WWTP: Liquid Train PT 2	30,080	30,296
023805	Blue Plains WWTP: Plant Wide Projects	29,502	32,232
113804	Blue Plains: Pipelines and Appurtenances	68,769	72,095
023807	Cabin Branch WWPS	2,185	2,185
023808	Cabin Branch WWPS Force Main	382	382
113800	Clarksburg Area Stage 3 Water Main, Part 4	1,451	1,451
973818	Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3	3,384	3,384
973819	Clarksburg Elevated Water Storage Facility	4,150	4,150
023811	Clarksburg Triangle Outfall Sewer, Part 2	1,734	1,734
093800	Countryside Drive Water Loop	17	17
063802	Damascus Centre WWPS Replacement	1,258	1,258
073801	Damascus WWTP Enhanced Nutrient Removal	2,363	2,363
073802	Duckett and Brighton Dam Upgrades	11,114	11,114
983857	Land & Rights-of-Way Acquisition - Bi-County	80	80
983854	Land & Rights-of-Way Acquisition-Mont County (S)	20	20
983849	Land & Rights-of-Way Acquisition-Mont County (W)	100	100
113803	Large Diameter Water Pipe Rehabilitation Program	155,921	155,921
023800	Laytonville Elevated Tank and Pumping Station	3,071	3,071
123800	Montgomery College Germantown Campus Sewer	284	284
013802	Newcut Road Water Main, Part 2	684	684
063801	Olney Standpipe Replacement	5,262	5,262
063804	Patuxent Raw Water Pipeline	13,106	13,106
033807	Patuxent WFP Phase II Expansion	58,502	58,502
033811	Potomac WFP Improvements	221	221
133800	Potomac WFP Main Zone Pipeline	330	330
113802	Potomac WFP Outdoor Substation No. 2 Replacement	8,439	8,439
113806	Potomac WFP Stage 2 Disinfection Byproducts Rule I	7,524	7,524

**FY13-18 EXECUTIVE RECOMMENDED CIP
Agency Request Compared to Executive Recommended
WSSC**

Project	Project Name	Agency Request	Executive Recommended
033812	Potomac WFP Submerged Channel Intake	24,407	24,407
033805	Power Reliability and Arc Flash Studies	2,300	2,300
103800	Preserve at Rock Creek Wastewater Pumping Station	492	492
103801	Preserve at Rock Creek WWPS Force Main	339	339
113801	Reddy Branch WWPS Augmentation	90	90
063805	Rocky Gorge Pump Station Upgrade	12,512	12,512
073800	Seneca WWTP Enhanced Nutrient Removal	6,971	6,971
083802	Seneca WWTP Expansion, Part 2	20,807	20,807
103802	Septage Discharge Facility Planning & Implement.	10,340	10,340
093801	Shady Grove Standpipe Replacement	8,071	8,071
083803	Tapestry Wastewater Pumping Station	338	338
083804	Tapestry WWPS Force Main	72	72
113805	Trunk Sewer Reconstruction Program	207,655	207,655
083801	Twinbrook Commons Sewer	330	330
063803	White Flint East (No. Bethesda Center) Sewer Main	311	311