

## EXECUTIVE RECOMMENDATION

### Blue Plains WWTP: Biosolids Mgmt PT2 - No. 954812

Category: WSSC  
 Agency: W.S.S.C.  
 Planning Area: Countywide  
 Relocation Impact: None

Date Last Modified: December 16, 2010  
 Required Adequate Public Facility: No

#### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru		Est. 6 Year			Beyond				
		FY10	FY11	Total	FY12	FY13	FY14	FY15	FY16	FY17	6 Years
Planning, Design and Supervision	75,551	46,408	11,080	18,010	7,032	5,549	4,260	622	312	235	53
Construction	261,541	68,729	15,121	177,682	54,921	82,401	32,696	4,990	2,521	153	9
Other	3,328	1,107	262	1,958	620	880	370	56	28	4	1
<b>Total</b>	<b>340,420</b>	<b>116,244</b>	<b>26,463</b>	<b>197,650</b>	<b>62,573</b>	<b>88,830</b>	<b>37,326</b>	<b>5,668</b>	<b>2,861</b>	<b>392</b>	<b>63</b>

#### FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	18,687	6,381	1,453	10,850	3,435	4,876	2,049	311	157	22	3
System Development Charge	0	0	0	0	0	0	0	0	0	0	0
WSSC Bonds	321,733	109,863	25,010	186,800	59,138	83,954	35,277	5,357	2,704	370	60

#### COMPARISON (\$000)

	Total	Thru		Est. 6 Year			Beyond					Approp. Request
		FY10	FY11	Total	FY12	FY13	FY14	FY15	FY16	FY17	6 Years	
Current Approved	362,743	114,251	38,980	206,769	103,141	60,170	34,920	2,912	5,626	0	2,743	0
Agency Request	362,183	116,244	29,531	216,304	80,765	97,810	29,234	3,226	4,174	1,095	104	80,765
Recommended	340,420	116,244	26,463	197,650	62,573	88,830	37,326	5,668	2,861	392	63	62,573
<b>CHANGE</b>				<b>TOTAL</b>	<b>%</b>	<b>6-YEAR</b>	<b>%</b>				<b>APPROP.</b>	
Agency Request vs Approved				(560)	(0.2%)	9,535	4.6%			80,765	0.0%	
Recommended vs Approved				(22,323)	(6.2%)	(9,119)	(4.4%)			62,573	0.0%	
Recommended vs Request				(21,763)	(6.0%)	(18,654)	(8.6%)			(18,192)	(22.5%)	

#### 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.

WSSC's request was based on cost estimates prepared in the early fall using available information from the District of Columbia Water and Sewer Authority (WASA, now doing business as DC Water). WASA subsequently provided updated figures based on its Proposed 2010 - 2019 Capital Improvement Plan. The Executive recommends changes in the project estimates to align them with the amounts proposed by WASA in its FY2010 - 2019 CIP.

The FY12 appropriation request for this project is \$62,573,000.

**A. Identification and Coding Information**

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

2. Date: October 1, 2010    Revised:

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

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

5. Agency: **WSSC**

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

**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '10	(10) Estimate FY '11	(11) Total 6 Years	(12) Year 1 FY '12	(13) Year 2 FY '13	(14) Year 3 FY '14	(15) Year 4 FY '15	(16) Year 5 FY '16	(17) Year 6 FY '17	(18) Beyond 6 Years
Planning, Design & Supervision	82,082	46,408	7,434	28,149	10,283	11,139	5,600	352	482	293	91
Land											
Site Improvements & Utilities											
Construction	276,560	68,729	21,805	186,014	69,682	85,703	23,345	2,842	3,651	781	12
Other	3,541	1,107	292	2,141	800	968	289	32	41	11	1
<b>Total</b>	<b>362,183</b>	<b>116,244</b>	<b>29,531</b>	<b>216,304</b>	<b>80,765</b>	<b>97,810</b>	<b>29,234</b>	<b>3,226</b>	<b>4,174</b>	<b>1,095</b>	<b>104</b>

**C. Funding Schedule (000's)**

WSSC Bonds	342,301	109,883	27,910	204,430	76,331	92,441	27,629	3,049	3,945	1,035	98
City of Rockville	19,882	6,381	1,621	11,874	4,434	5,369	1,605	177	229	60	6

**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 2009 - FY 2018 Capital Improvement Program (February, 2010).

**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**  
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 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.

**E. Annual Operating Budget Impact (000's)**

	FY of Impact
Program Costs	
Staff	...
Other	...
Facility Costs	
Maintenance	...
Debt Service	29772
<b>Total Costs</b>	<b>29772</b>
Impact on Water or Sewer Rate	64¢

**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	360,331
Present Cost Estimate	362,183
Approved Request, Last FY	38,980
Total Expenditures & Encumbrances	116,244
Approval Request FY 12	80,765
Supplemental Approval Request Current FY (11)	

**G. Status Information**

Land Status: Not applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

**H. Map**    Map Reference Code:

MAP NOT AVAILABLE