

# 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
<b>Total</b>	<b>266,009</b>	<b>222,407</b>	<b>8,541</b>	<b>30,296</b>	<b>9,458</b>	<b>4,985</b>	<b>1,799</b>	<b>2,524</b>	<b>6,833</b>	<b>4,697</b>	<b>4,765</b>

### 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
<b>CHANGE</b>				<b>TOTAL</b>	<b>%</b>	<b>6-YEAR</b>	<b>%</b>			<b>APPROP.</b>		
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
<b>Total</b>	<b>265,857</b>	<b>222,407</b>	<b>8,592</b>	<b>30,080</b>	<b>7,803</b>	<b>4,668</b>	<b>1,619</b>	<b>3,171</b>	<b>7,643</b>	<b>5,176</b>	<b>4,778</b>

**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)	

**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.

**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