EXECUTIVE RECOMMENDATION

Blue Plains WWTP: Biological Nutrient Removal - No. 973817

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

Date Last Modified: **December 19, 2007**
Required Adequate Public Facility: **No**

EXPENDITURE SCHEDULE ($000)

Cost Element	Total	Thru FY07	Est. FY08	6 Year Total	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design and Supervision	7,833	4,284	871	2,162	574	613	490	0	33	452	516
Construction	49,555	15,168	5,989	28,398	13,986	10,159	4,248	5	0	0	0
Other	397	17	69	306	146	108	47	0	0	5	5
Total	**57,785**	**19,469**	**6,929**	**30,866**	**14,706**	**10,880**	**4,785**	**5**	**33**	**457**	**521**

FUNDING SCHEDULE ($000)

Municipal (WSSC only)	1,601	534	190	848	404	299	131	0	1	13	29
State Aid	28,635	9,735	3,465	15,435	7,353	5,440	2,393	3	17	229	0
WSSC Bonds	27,549	9,200	3,274	14,583	6,949	5,141	2,261	2	15	215	492

COMPARISON ($000)

	Total	Thru FY07	Est. FY08	6 Year Total	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years	Approp. Request
Current Approved	40,302	20,404	3,436	16,462	7,724	5,737	2,989	11	1	0	0	0
Agency Request	53,426	20,866	4,295	28,265	11,229	10,888	6,072	76	0	0	0	11,229
Recommended	57,785	19,469	6,929	30,866	14,706	10,880	4,785	5	33	457	521	14,706

CHANGE	TOTAL	%	6-YEAR	%	APPROP.	
Agency Request vs Approved	13,124	32.6%	11,803	71.7%	11,229	0.0%
Recommended vs Approved	17,483	43.4%	14,404	87.5%	14,706	0.0%
Recommended vs Request	4,359	8.2%	2,601	9.2%	3,477	31.0%

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 (WASA) in its Proposed FY2007 - 2016 CIP.

A. Identification and Coding Information

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

2. Date: October 1, 2007

Revised:

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

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

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	2291	....	13
Total Costs		2291	....	13
Impact on Water or Sewer Rate		5¢	....	13

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	**6,563**	4,923	431	**1,209**	391	389	373	56			
Land											
Site Improvements & Utilities											
Construction	**46,509**	15,913	3,821	**26,775**	10,727	10,391	5,639	18			
Other	**354**	30	43	**281**	111	108	60	2			
Total	**53,426**	**20,866**	**4,295**	**28,265**	**11,229**	**10,888**	**6,072**	**76**			

C. Funding Schedule (000's)

WSSC Bonds	**25,245**	9,860	2,029	**13,356**	5,306	5,145	2,869	36			
State Aid	**26,714**	10,433	2,148	**14,133**	5,615	5,444	3,036	38			
City of Rockville	**1,467**	573	118	**776**	308	299	167	2			

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	40,302
Present Cost Estimate	53,426
Approved Request, Last FY	3,436
Total Expenditures & Encumbrances	20,866
Approval Request FY 09	11,229
Supplemental Approval Request Current FY (08)	

G. Status Information

Land Status: Not applicable

% Project Completion: C-47%

Est. Completion Date: FY 2012

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 WASA Master Plan (1998); and the DC-WASA preliminary FY 2007 - FY 2016 Capital Improvement Program information (May, 2007).

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

Costs increased due to higher construction bid prices than expected in the Engineer's estimate.

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 in the amount shown. However, MDE has not yet agreed that all of the Phase II costs are grant eligible.

COORDINATION

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