

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 20, 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	79,592	11,850	12,490	51,983	14,749	13,891	11,223	5,466	3,434	3,220	3,269
Construction	322,155	985	11,210	308,059	45,726	64,470	67,800	36,928	52,669	40,466	1,901
Other	4,014	124	237	3,601	605	784	790	424	561	437	52
Total	405,761	12,959	23,937	363,643	61,080	79,145	79,813	42,818	56,664	44,123	5,222

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	10,840	0	401	10,185	708	1,580	1,705	1,182	2,840	2,170	254
State Aid	208,306	12,959	16,642	178,122	48,170	50,362	48,738	21,304	4,939	4,609	583
WSSC Bonds	186,615	0	6,894	175,336	12,202	27,203	29,370	20,332	48,885	37,344	4,385

COMPARISON (\$000)

	Total	Thru	Est. 6 Year								Beyond	Approp.
		FY10	FY11	Total	FY12	FY13	FY14	FY15	FY16	FY17	6 Years	Request
Current Approved	435,607	15,419	34,982	314,101	80,548	95,285	46,569	40,274	51,425	0	71,105	0
Agency Request	426,778	12,959	36,093	354,438	68,784	93,359	55,936	37,010	46,540	52,809	23,288	68,784
Recommended	405,761	12,959	23,937	363,643	61,080	79,145	79,813	42,818	56,664	44,123	5,222	61,080
CHANGE				TOTAL	%	6-YEAR	%			APPROP.		
Agency Request vs Approved				(8,829)	(2.0%)	40,337	12.8%			68,784	0.0%	
Recommended vs Approved				(29,846)	(6.9%)	49,542	15.8%			61,080	0.0%	
Recommended vs Request				(21,017)	(4.9%)	9,205	2.6%			(7,704)	(11.2%)	

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.

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 \$61,080,000. Beginning in FY11, funding for this project reflects the March 18, 2010 agreement between WSSC and the State of Maryland that WSSC will cover 46% of the overall project's eligible costs and the City of Rockville will cover 2.7%, with the remaining 51.3% to be covered by the State. (The State's share varies year to year due to the differing funding percentages assigned to different subprojects.)

A. Identification and Coding Information

2. Date: October 1, 2010 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

1. Project Number	Agency Number	Update Code	Revised:
083800	S-22.10	Change	

3. Project Name: Blue Plains WWTP: Enhanced 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	.....	....
Total Costs		.....	....
Impact on Water or Sewer Rate		.....	....

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	67,007	11,850	7,318	44,948	9,426	12,673	9,218	6,601	3,819	3,211	2,691
Land											
Site Improvements & Utilities											
Construction	355,550	985	28,418	305,981	58,677	79,762	46,164	30,043	42,260	49,075	20,166
Other	4,221	124	357	3,509	681	924	554	366	461	523	231
Total	426,778	12,959	36,093	354,438	68,784	93,359	55,936	37,010	46,540	52,809	23,288

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 08
Date First Approved	FY 07
Initial Cost Estimate	648
Cost Estimate Last FY	432,673
Present Cost Estimate	426,778
Approved Request, Last FY	34,982
Total Expenditures & Encumbrances	12,959
Approval Request FY 12	68,784
Supplemental Approval Request Current FY (11)	

C. Funding Schedule (000's)

State Aid	426,778	12,959	36,093	354,438	68,784	93,359	55,936	37,010	46,540	52,809	23,288
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D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of the Blue Plains Enhanced Nutrient Removal projects required to achieve nutrient removal to levels below BNR levels to meet the Chesapeake Bay water quality targets determined in the 2005 Tributary Strategy process. Sub-projects include: Nitrogen Removal Facilities, Centrate Treatment, Enhanced Clarification Facility, and Blue Plains Tunnel and Dewatering Pumping Station.

Service Area: Bi-County Area Capacity: 370 MGD

JUSTIFICATION

Plans & Studies
Chesapeake Bay Program Tributary Strategies Process (2005); Blue Plains Strategic Process Study, Metcalf & Eddy (2005); Selection of the Enhanced Nitrogen Removal Process Alternative for the Blue Plains Advanced Wastewater Treatment Facility, Metcalf & Eddy (2009); DCWASA Approved FY 2009 - FY 2018 Capital Improvement Program (February, 2010).

Specific Data
It is anticipated that the costs for this program will be covered by the Bay Restoration Fund.

Cost Change
The cost decrease is due to revised estimates from DCWASA.

STATUS Under Construction (WSSC Contract Nos. CB4168L05, CB4168Q05).

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.

COORDINATION
Maryland Department of the Environment, U.S. Environmental Protection Agency, Region III and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.

G. Status Information

Land Status: Not Applicable
% Project Completion: C-8%
Est. Completion Date: FY 2019

H. Map Map Reference Code:

MAP NOT AVAILABLE