

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code	2. Date: October 1, 2007	7. Pre PDF Pg.No.:	8. Req. Adeq. Pub. Fac.
973817	S-22.08	Change	Revised: May 8, 2008		
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	2500
Total Costs.....		2500
Impact on Water or Sewer Rate.....		5¢

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	7,833	4,284	871	2,162	574	613	490		33	452	516
Land											
Site Improvements & Utilities											
Construction	49,555	15,168	5,989	28,398	13,986	10,159	4,248	5			
Other	397	17	69	306	146	108	47			5	5
Total	57,785	19,469	6,929	30,866	14,706	10,880	4,785	5	33	457	521

C. Funding Schedule (000's)

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

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 Proposed FY 2007 - FY 2016 Capital Improvement Program information (October, 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.

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	57,785
Approved Request, Last FY	3,436
Total Expenditures & Encumbrances	19,469
Approval Request FY 09	14,706
Supplemental Approval Request Current FY (08)	

G. Status Information

Land Status: Not applicable
 % Project Completion: C-47%
 Est. Completion Date: FY 2012

H. Map Map Reference Code:

MAP NOT AVAILABLE