

A. Identification and Coding Information

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

2. Date: October 1, 2009

Revised: January 20, 2010

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

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

5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: **Bi-County**

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	17,446	12,434	1,479	3,533	1,473	1,336	724				
Land											
Site Improvements & Utilities											
Construction	62,803	31,080	11,546	20,177	5,959	10,546	3,672				
Other	802	435	130	237	74	119	44				
Total	81,051	43,949	13,155	23,947	7,506	12,001	4,440				

C. Funding Schedule (000's)

WSSC Bonds	38,300	20,768	6,216	11,316	3,547	5,671	2,098				
State Aid	40,527	21,975	6,578	11,974	3,753	6,001	2,220				
City of Rockville	2,224	1,206	361	657	206	329	122				

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 DCWASA Master Plan (1998); and the DCWASA Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

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

The cost decrease is due to sub-projects moving through construction.

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 for eligible costs.

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.

E. Annual Operating Budget Impact (000's)

FY of Impact

Program Costs	Staff	
	Other	
Facility Costs	Maintenance	
	Debt Service	3307	14
Total Costs		3307	14
Impact on Water or Sewer Rate.....		7¢	14

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 96
Date First Approved	FY 96
Initial Cost Estimate	83,227
Cost Estimate Last FY	89,115
Present Cost Estimate	81,051
Approved Request, Last FY	21,344
Total Expenditures & Encumbrances	43,949
Approval Request FY 11	7,506
Supplemental Approval Request Current FY (10)	

G. Status Information

Land Status: Not applicable
 % Project Completion: C-85%
 Est. Completion Date: FY 2014

H. Map Map Reference Code:

MAP NOT AVAILABLE