

A. Identification and Coding Information

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

2. Date: October 1, 2012

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

Revised: May 9, 2013

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 '12	(10) Estimate FY '13	(11) Total 6 Years	(12) Year 1 FY '14	(13) Year 2 FY '15	(14) Year 3 FY '16	(15) Year 4 FY '17	(16) Year 5 FY '18	(17) Year 6 FY '19	(18) Beyond 6 Years
Planning, Design & Supervision	19,252	16,673	1,192	1,387	807	258	233	89			
Land											
Site Improvements & Utilities											
Construction	63,519	51,334	5,179	7,006	3,130	785	2,070	1,017	4		
Other	147		64	83	39	10	23	11			
Total	82,918	68,007	6,435	8,476	3,976	1,053	2,326	1,117	4		

C. Funding Schedule (000's)

WSSC Bonds	46,229	32,136	6,082	8,011	3,758	995	2,198	1,056	4		
State Aid	34,004	34,004									
City of Rockville	2,685	1,867	353	465	218	58	128	61			

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); the Blue Plains Intermunicipal Agreement of 2012; and the DCWASA Approved FY 2013 Capital Improvement Program.

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

Cost decrease is due to lower estimates as Nitrification/Denitrification Facilities progress 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

City of Rockville (responsible for a share of funding), 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	3628	19
Total Costs		3628	19
Impact on Water or Sewer Rate.....		8¢	19

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	86,975
Present Cost Estimate	82,918
Approved Request, Last FY	10,559
Total Expenditures & Encumbrances	68,007
Approval Request FY 14	3,976
Supplemental Approval Request Current FY (13)	

G. Status Information

Land Status: Not applicable
 % Project Completion: C-93%
 Est. Completion Date: FY 2018

H. Map Map Reference Code:

MAP NOT AVAILABLE