

Blue Plains WWTP: Biosolids Management, Part 2

A. Identification and Coding Information			PDF Date	October 1, 2021	Pressure Zones	
Agency Number	Project Number	Update Code	Date Revised		Drainage Basins	Bi-County 30
S - 000022.07	954812	Change			Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'21	Estimate FY'22	Total 6 Years	Year 1 FY'23	Year 2 FY'24	Year 3 FY'25	Year 4 FY'26	Year 5 FY'27	Year 6 FY'28	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	89,150		15,169	46,891	15,136	9,556	7,517	3,662	4,959	6,061	27,090
Other	893		152	470	151	96	75	37	50	61	271
Total	90,043		15,321	47,361	15,287	9,652	7,592	3,699	5,009	6,122	27,361

C. Funding Schedule (000's)

WSSC Bonds	85,100		14,480	44,761	14,448	9,122	7,175	3,496	4,734	5,786	25,859
City of Rockville	4,943		841	2,600	839	530	417	203	275	336	1,502

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC Water's share of the Blue Plains biosolids processes for which construction began after June 30, 1993. There are 10 projects from the DC Water capital program that are covered by the WSSC Water capital project. The projects that make up the majority of the FY'23 anticipated spending include: gravity thickener facility upgrades phase II (BX); biosolids blending development center (I3); and additional centrifuges for pre-digestion dewatering (LD).

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees.; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life.

JUSTIFICATION

This project is needed to implement a set of facilities which will provide a permanent bio-solids management program for Blue Plains. Blue Plains Inter-Municipal Agreement of 2012; DCWASA Master Plan (1998); EPMC IV Facility Plan, CH2MHILL (2001); Bio-solids Management at DCWASA Blue Plains Wastewater Treatment Plant Phase II - Design and Cost Considerations for Treatment Alternatives Report (December 2007); Blue Plains Facilities Master Plan (2016); and DC Water FY'22 Capital Improvements Program.

COST CHANGE

Increased cost estimates are due to the increased costs in biosolids management in FY'28 and beyond for two projects: biosolids rehab (RM) and DAF thickeners facility upgrade (XY).

OTHER

The project scope has remained the same. Project costs are derived from the DC Water Capital & Operating Budget 10-year forecast of spending and DC Water's latest project management data, and fully reflect DC Water's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. Portions of the program have been financed by low interest loans through the Maryland Department of the Environment's Water Quality Administration State Revolving Loan Program. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

Coordinating Agencies: City of Rockville;(responsible for a share of funding); DC Water;(responsible for design and construction)
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	\$4,921	
Total Cost	\$4,921	
Impact on Water and Sewer Rate	\$0.01	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'95
Date First Approved	FY'95
Initial Cost Estimate	
Cost Estimate Last FY	76,311
Present Cost Estimate	90,043
Approved Request Last FY	15,321
Total Expense & Encumbrances	
Approval Request Year 1	15,287

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	169.6 / 370 MGD

H. Map

MAP NOT AVAILABLE