

Blue Plains WWTP: Biosolids Management, Part 2

| A. Identification and Coding Information | | | PDF Date | October 1, 2024 | 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'24 | Estimate FY'25 | Total 6 Years | Year 1 FY'26 | Year 2 FY'27 | Year 3 FY'28 | Year 4 FY'29 | Year 5 FY'30 | Year 6 FY'31 | Beyond 6 Years |
|--------------------------------|---------|------------|----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| Planning, Design & Supervision | | | | | | | | | | | |
| Land | | | | | | | | | | | |
| Construction | 109,556 | | 13,528 | 79,538 | 11,567 | 5,095 | 13,759 | 14,919 | 16,183 | 18,015 | 16,490 |
| Other | 980 | | 135 | 680 | | 51 | 138 | 149 | 162 | 180 | 165 |
| Total | 110,536 | | 13,663 | 80,218 | 11,567 | 5,146 | 13,897 | 15,068 | 16,345 | 18,195 | 16,655 |

C. Funding Schedule (000's)

| | | | | | | | | | | | |
|-------------------|---------|--|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| WSSC Bonds | 104,456 | | 12,920 | 75,786 | 10,866 | 4,866 | 13,142 | 14,249 | 15,457 | 17,206 | 15,750 |
| City of Rockville | 6,080 | | 743 | 4,432 | 701 | 280 | 755 | 819 | 888 | 989 | 905 |

D. Description & Justification

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| <p>DESCRIPTION</p> <p>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 12 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'26 anticipated spending include: biosolids blending development center (I3); additional centrifuges for pre-digestion dewatering (LD); and implementation of an RNG initiative to power municipal buses (TL). Starting in FY'28 are planned upgrades to the DAF facility (XY), rehabilitate the dewatered sludge loading facility (XD); and biosolids process rehabilitation (RM);</p> <p>BENEFIT</p> <p>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</p> <p>JUSTIFICATION</p> <p>This project is needed to implement, upgrade, expand and rehabilitate various facilities that provide treatment and management of the Class A biosolids 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's preliminary FY'25 - FY'34 Capital Improvements Program.</p> <p>COST CHANGE</p> <p>The schedule and expenditure projections were updated to reflect the latest estimates available from DC Water for the constituent Blue Plains joint-use projects as of April 2024.</p> <p>OTHER</p> <p>The project scope has remained the same. Project costs are derived from the DC Water Capital Budget 10-year forecast of spending and DC Water's latest project management data, and fully reflect DC Water's cost estimates and expenditure schedules available at the time this document was prepared. 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. The funding schedule also indicates the calculated Rockville share of the cost.</p> <p>COORDINATION</p> <p>Coordinating Agencies: City of Rockville;(responsible for a share of funding); DC Water;(responsible for design and construction)</p> <p>Coordinating Projects: Not Applicable</p> |
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| E. Annual Operating Budget Impact (000's) | | FY of Impact |
|---|---------|--------------|
| Staff & Other | | |
| Maintenance | | |
| Debt Service | \$4,734 | |
| Total Cost | \$4,734 | |
| 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 | 127,386 |
| Present Cost Estimate | 110,536 |
| Approved Request Last FY | 13,663 |
| Total Expense & Encumbrances | |
| Approval Request Year 1 | 11,567 |

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

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

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| H. Map |
| MAP NOT AVAILABLE |