

Potomac WFP Submerged Channel Intake

A. Identification and Coding Information			PDF Date	October 1, 2023	Pressure Zones	Potomac WFP HGPOWF
Agency Number	Project Number	Update Code	Date Revised	February 1, 2024	Drainage Basins	
W - 000073.30	033812	Change			Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'23	Estimate FY'24	Total 6 Years	Year 1 FY'25	Year 2 FY'26	Year 3 FY'27	Year 4 FY'28	Year 5 FY'29	Year 6 FY'30	Beyond 6 Years
Planning, Design & Supervision	10,459	2,164		5,600	800	800	800	1,000	1,000	1,200	2,695
Land											
Construction	86,997	103		25,000						25,000	61,894
Other	4,759			1,530	40	40	40	50	50	1,310	3,229
Total	102,215	2,267		32,130	840	840	840	1,050	1,050	27,510	67,818

C. Funding Schedule (000's)

WSSC Bonds	102,215	2,267		32,130	840	840	840	1,050	1,050	27,510	67,818
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D. Description & Justification

<p>DESCRIPTION</p> <p>This project includes planning, which involves community outreach and coordination with elected officials, design, and construction of a submerged channel intake to provide an additional barrier against drinking water contamination (particularly Giardia cysts and Cryptosporidium oocysts), as well as to enhance reliability and reduce treatment costs by drawing water from a location with cleaner, more stable water quality.</p> <p>BENEFIT</p> <p>Water Quality: This project supports WSSC Water's mission to provide safe, clean water by improving the quality and/or safety of drinking water; System Reliability: This project will improve service reliability through fewer and shorter service interruptions; Financial Efficiency: This project is expected to increase revenues, decrease expenses, or both</p> <p>JUSTIFICATION</p> <p>The project provides for a more reliable supply by eliminating the current problems associated with ice and vegetation blocking the existing bank withdrawal. This project is consistent with the industry's recommended multiple barrier approach.</p> <p>Technical Memorandum No. 2 Water Quality Needs Assessment, O'Brien & Gere Engineers, Inc. (November 2001); Draft Source Water Assessment Study, Maryland Department of the Environment (April 2003); Potomac WFP Facility Plan, O'Brien & Gere Engineers, Inc. (September 2002); Draft Feasibility Study Report, Black & Veatch (November 2013).</p> <p>COST CHANGE</p> <p>Cost increase due to inflation.</p> <p>OTHER</p> <p>The project scope has remained the same. Significant outreach activities occurred as part of the planning phase of this project. The National Environmental Policy Act (NEPA) process was concluded in January 2018 when the National Park Service (NPS) approved the Environmental Assessment and transmitted its record of decision and the Finding of No Significant Impact. Future land costs are included in project W-202.00. Both Councils will review the results of the planning work and the updated costs and benefits of the project and must approve continuing the project before design and construction proceed.</p> <p>COORDINATION</p> <p>Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Environmental Protection; Montgomery County Government; National Park Service; Prince George's County Department of Environmental Resources; Prince George's County Government; U.S. Army Corps of Engineers</p> <p>Coordinating Projects: W - 000073.33 - Potomac WFP Consent Decree Program</p>

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	\$6,275	34
Total Cost	\$6,275	34
Impact on Water and Sewer Rate	\$0.01	34
F. Approval and Expenditure Data (000's)		
Date First in Program		FY'04
Date First Approved		FY'03
Initial Cost Estimate		936
Cost Estimate Last FY		102,215
Present Cost Estimate		102,215
Approved Request Last FY		840
Total Expense & Encumbrances		2,267
Approval Request Year 1		840

G. Status Information	
Land Status	Land and R/W to be acquired
Project Phase	Planning
Percent Complete	100 %
Estimated Completion Date	April 2033
Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map
MAP NOT AVAILABLE