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|-------------------|---------------|-------------|
| 1. Project Number | Agency Number | Update Code |
| 033812 | W-73.30 | Change |

Revised:

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|--|--|
| | |
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5.Agency: **WSSC**

6. Planning Area: Bi-County

| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) |
|--------------------------------|---------------|----------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Cost Elements | Total | Thru FY '13 | Estimate FY '14 | Total 6 Years | Year 1 FY '15 | Year 2 FY '16 | Year 3 FY '17 | Year 4 FY '18 | Year 5 FY '19 | Year 6 FY '20 | Beyond 6 Years |
| Planning, Design & Supervision | 5,942 | 2,308 | 1,148 | 2,486 | 978 | 742 | 566 | 200 | | | |
| Land | | | | | | | | | | | |
| Site Improvements & Utilities | | | | | | | | | | | |
| Construction | 20,115 | | | 20,115 | | 2,575 | 13,905 | 3,635 | | | |
| Other | 2,376 | | 115 | 2,261 | 98 | 332 | 1,447 | 384 | | | |
| Total | 28,433 | 2,308 | 1,263 | 24,862 | 1,076 | 3,649 | 15,918 | 4,219 | | | |

| | | | | | | | | | | | |
|------------|---------------|-------|-------|---------------|-------|-------|--------|-------|--|--|--|
| WSSC Bonds | 28,433 | 2,308 | 1,263 | 24,862 | 1,076 | 3,649 | 15,918 | 4,219 | | | |
|------------|---------------|-------|-------|---------------|-------|-------|--------|-------|--|--|--|

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.

JUSTIFICATION

"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, 2002); "Potomac WFP Facility Plan," O'Brien & Gere Engineers, Inc. (September, 2002).

The project is expected to pay for itself over time based upon the reduced chemical and solids handling costs resulting from the cleaner raw water source. It also 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.

Costs were increased for inflation.

OTHER

The project scope has remained the same. As part of the planning phase of this project, significant outreach activities will occur. A series of briefings with State legislators, County Council members, County Executive staff and County Council staff will be undertaken prior to commencement of further engineering work. As the planning process moves into its final stages and the National Environmental Policy Act (NEPA) approval process is underway, elected officials, county government staffs, environmental community members, and the general public will be engaged in an on-going information, outreach and project participation program. Expenditure and schedule projections shown above are planning level estimates and may change based on site-specific conditions and design constraints. Both Councils will review the results of the detailed study and must approve continuing with the project before design and construction may proceed.

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|------------------------------------|--------------------|------|----|
| Program Costs | Staff | | |
| | Other | | |
| Facility Costs | Maintenance | | |
| | Debt Service | 2198 | 19 |
| Total Costs..... | | 2198 | 19 |
| Impact on Water or Sewer Rate..... | | 4¢ | 19 |

| | |
|--|--------|
| Date First in Capital Program | FY 04 |
| Date First Approved | FY 03 |
| Initial Cost Estimate | 936 |
| Cost Estimate Last FY | 27,818 |
| Present Cost Estimate | 28,433 |
| Approved Request, Last FY | 1,227 |
| Total Expenditures & Encumbrances | 2,308 |
| Approval Request FY 15 | 1,076 |
| Supplemental Approval Request Current FY (14) | |

| | |
|-----------------------|------------------------------|
| Land Status: | Right-of-Way may be required |
| % Project Completion: | P-60% |
| Est. Completion Date: | FY 2018 |

MAP NOT AVAILABLE

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: W - 73.30

Project Name: Potomac WFP Submerged Channel Intake

COORDINATION

Montgomery County Government, Prince George's County Government, National Park Service, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Maryland Department of Natural Resources, Prince George's County Department of Environmental Resources and U.S. Army Corps of Engineers.

NOTE This project supports 100% System Improvement.