

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code	2. Date: October 1, 2007	7. Pre PDF Pg.No.:	8. Req. Adeq. Pub. Fac.
934855	W-127.01	Change	Revised:		
3. Project Name: Bi-County Water Tunnel			5. Agency: WSSC		
4. Program: Sanitation		6. Planning Area: Bi-County			

E. Annual Operating Budget Impact (000's)

			FY of Impact
Program Costs	Staff	
	Other	
Facility Costs	Maintenance	329	13
	Debt Service	
Total Costs.....		329	13
Impact on Water or Sewer Rate.....		

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	18,577	9,212	2,980	6,385	1,854	1,854	1,854	823			
Land											
Site Improvements & Utilities											
Construction	130,725		9,150	121,575	35,296	35,296	35,296	15,687			
Other	14,009		1,213	12,796	3,715	3,715	3,715	1,651			
Total	163,311	9,212	13,343	140,756	40,865	40,865	40,865	18,161			

C. Funding Schedule (000's)

SDC	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	163,311	9,212	13,343	140,756	40,865	40,865	40,865	18,161			

D. Description & Justification

DESCRIPTION

This project provides for an alignment study, extensive community outreach efforts, and design and construction of approximately 28,400 feet of 84-inch diameter water main between the intersection of Tuckerman Lane and Route I-270 and the western terminus of the Bi-County Water Tunnel near the area where Rock Creek crosses the Capital Beltway (Maryland Route 495).

Service Area Montgomery Main Pressure Zone HG495, Prince George's High Pressure Zone HG450

JUSTIFICATION

Plans & Studies
Montgomery and Prince George's Main Zone Facility Plan, Black and Veatch, Inc. (October, 1990); Technical Memoranda #1, 2, & 3 (Draft), Louis Berger & Associates (1997); Updated Water Demand Projections (dated April 6, 2001); and the General Plan. Final Alignment Report, Black and Veatch, Inc. (July, 2005).

Specific Data
This project will significantly increase transmission capacity from the Potomac Water Filtration Plant to the Montgomery County Main Zone and Prince George's County. The alignment study completed in July 2005 recommended that the water main be constructed as a pipeline with a deep rock tunnel from 90 to 250 feet below the ground surface.

Cost Change
Not Applicable.

STATUS Final Design (WSSC Contract No. BL9972A94,).

OTHER
The project scope has remained the same. Expenditures shown in Block B above are an order of magnitude estimate with a confidence interval of +/-30%. In late 2005, both Councils reviewed the results of the detailed alignment study and agreed upon the final alignment and construction method. In the FY'09 CIP, the project name has been modified to include the word "tunnel" for community outreach purposes. Estimated construction time has increased based on actual rock hardness data and anticipated tunnel boring rates. Land costs are included in WSSC Project W-202.00.

COORDINATION
Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission (Mandatory Referral submissions will be required), Maryland Department of Natural Resources and Maryland State Department of Transportation.

NOTE This project supports 100% Growth.

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 93
Date First Approved	FY 93
Initial Cost Estimate	63,000
Cost Estimate Last FY	162,868
Present Cost Estimate	163,311
Approved Request, Last FY	23,550
Total Expenditures & Encumbrances	11,269
Approval Request FY 09	40,865
Supplemental Approval Request Current FY (08)	

G. Status Information

Land Status:	Site or R/W partly acquired
% Project Completion:	D-70%
Est. Completion Date:	FY 2012

H. Map Map Reference Code:

SEE ATTACHED MAP

26-30

