

Resolution No: _____
Introduced: _____
Adopted: _____

COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND

By: County Council

Subject: Approval of the FY 2010-2015 Capital Improvements Program for the Washington Suburban Sanitary Commission

Background

1. As required by Article 29, Sections 7-101, 7-103, and 7-104 of the Maryland Code, before October 1 of each year, the Washington Suburban Sanitary Commission (WSSC) must prepare and submit to the County Executive and County Council of Montgomery County a 6-year Capital Improvements Program (CIP) for water and sewer facilities.
2. On October 1, 2008, WSSC transmitted its Proposed CIP for Fiscal Years 2010-2015.
3. On January 15, 2009, the County Executive transmitted his recommendations regarding the FY 2010-2015 WSSC CIP.
4. On January 21, 2009, WSSC transmitted a mid-cycle update to its Proposed CIP for Fiscal Years 2010-2015. This update included proposed changes to 20 CIP projects and 4 information only projects.
5. Article 29, Section 7-105(d)(1) authorizes the Council to approve, disapprove, or modify the WSSC CIP.
6. Article 29, Section 7-105(b)(1) requires that before final action on the WSSC CIP is taken, public hearings must be held on the Program. The Council held public hearings on the CIP on February 10, 2009.
7. The Council considered the recommendations of the Executive and the Montgomery County Planning Board with respect to the CIP and reviewed the project description forms.
8. The Council recognizes that the information and documentation contained in the CIP is an integral part of the Comprehensive Water Supply and Sewerage Systems Plan which must be

submitted to the State Department of the Environment in accordance with Section 9-501 et seq. of the Environment Article of the Maryland Code.

9. On May 7, 2009, the Montgomery County and Prince George's County Councils jointly reviewed their respective proposed additions to, deletions from, increases to, and decreases in the WSSC capital and operating budgets and further considered all proposed changes. The Councils agree on changes to the WSSC capital and operating budgets.

Action

The County Council for Montgomery County, Maryland approves the following resolution for the Washington Suburban Sanitary Commission:

1. The Council approves the projects in the WSSC Proposed CIP for FY 2010-2015 as transmitted on October 1, 2009, except those projects which are approved as modified by the Montgomery and Prince George's County Councils. Revised project description forms for the Prince George's County projects are included in the Prince George's County resolution approving the WSSC Proposed CIP for FY 2010-2015. Amended project description forms for the Montgomery County and Bi-County projects are attached to this resolution and are identified by the following WSSC project numbers:

W-3.02, W-73.16, W-73.30, W-138.02, W172.05, W-172.07, W-172.08, S-22.06, S-22.07, S-22.08, S-22.09, S-22.10, S-89.22, S-89.23, S-94.11, W-1.00, S-1.01, A-102.00, A-103.01

2. The Council approves the close out of the projects in Part I.

This is a correct copy of Council action.

Linda M. Lauer, Clerk of the Council

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
063801	W-3.02	Change

2. Date: October 1, 2008
 Revised: January 21, 2009

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

3. Project Name: Olney Standpipe Replacement

5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: Olney & Vicinity P.A. 23

E. Annual Operating Budget Impact (000's)

Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	.....	397	.... 14
Total Costs			397	.... 14
Impact on Water or Sewer Rate				....

B. Expenditure Schedule (000's)

	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Cost Elements											
Planning, Design & Supervision	1,170	127	310	733	413	261	59				
Land											
Site Improvements & Utilities											
Construction	2,808			2,808		550	1,990	268			
Other	578		47	531	62	122	307	40			
Total	4,556	127	357	4,072	475	933	2,356	308			

C. Funding Schedule (000's)

WSSC Bonds	4,556	127	357	4,072	475	933	2,356	308			
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D. Description & Justification

DESCRIPTION

This project provides for the community outreach, planning, site selection, design, and construction of up to 1.0 million gallons (MG) of elevated storage to serve the Olney area. Demolition of the existing Olney Standpipe is part of this project.

Service Area Montgomery High Pressure Zone HG660 **Capacity** 1.0 MG

JUSTIFICATION

Plans & Studies

Montgomery County High Zone Facility Plan, Boyle Engineering (1991); WSSC Memorandum from Jeff Asner to Karen Wright dated March 22, 2004; Water Storage Volume Criteria Report (November 2005).

Specific Data

The efforts of the Systems Control Group have improved the minimum chlorine residual concentrations and appear to have lowered the THM concentrations in the distribution system. However, these efforts still leave the Olney area with troublesome chlorine residuals and result in low-pressure complaints during the drawdown efforts. The existing Olney Standpipe with 1.8 MG of non-usable storage requires constant attention to maintain acceptable water quality.

Cost Change

Costs were increased for inflation.

STATUS Facility Planning (WSSC Contract No. BE4473A06,).

OTHER

The project scope has remained the same. Expenditures shown are planning level estimates only and may change depending on site-specific conditions and design constraints.

COORDINATION

Montgomery County Government and Maryland-National Capital Park & Planning Commission (anticipates receiving Mandatory Referral submissions from WSSC as the project reaches the preliminary design stage).

NOTE This project supports 100% System Improvement.

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 06
Date First Approved	FY 06
Initial Cost Estimate	3,911
Cost Estimate Last FY	4,435
Present Cost Estimate	4,556
Approved Request, Last FY	383
Total Expenditures & Encumbrances	127
Approval Request FY 10	475
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not determined
 % Project Completion: P-5%
 Est. Completion Date: FY 2013

H. Map Map Reference Code:



A. Identification and Coding Information

1. Project Number	Agency Number	Update Code	2. Date: October 1, 2008	7. Pre PDF Pg.No.:	8. Req. Adeq. Pub. Fac.
033811	W-73.16	Change	Revised: January 21, 2009		

3. Project Name: Potomac WFP Improvements
 4. Program: **Sanitation** 6. Planning Area: Bi-County
 5. Agency: **WSSC**

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	.....
	Other .....	.....
Facility Costs	Maintenance .....	.....
	Debt Service	7980	12
Total Costs.....		7980	12
Impact on Water or Sewer Rate.....		16¢	12

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	22,182	17,780	2,402	2,000	1,514	486					
Land											
Site Improvements & Utilities											
Construction	105,146	56,548	24,500	24,098	18,248	5,850					
Other	5,300		2,690	2,610	1,922	688					
Total	132,628	74,328	29,592	28,708	21,684	7,024					

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 04
Date First Approved	FY 03
Initial Cost Estimate	70,247
Cost Estimate Last FY	134,150
Present Cost Estimate	132,628
Approved Request, Last FY	32,230
Total Expenditures & Encumbrances	74,328
Approval Request FY 10	21,684
Supplemental Approval Request Current FY (09)	

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	91,513	51,286	20,418	19,809	14,962	4,847					
SDC	41,115	23,042	9,174	8,899	6,722	2,177					

G. Status Information

Land Status: Not applicable
 % Project Completion: C-45%
 Est. Completion Date: May 2010

D. Description & Justification

DESCRIPTION

This project provides for improvements to the Potomac WFP in accordance with the program management plan. Design and construction of rapid mix/flow splitting modifications, pumping station and ultraviolet disinfection facilities, replacement of MCC No. 1, a new backwash pumping station, and new lime feed facilities were packaged as one contract using the CM-at-Risk project delivery method. Outdoor Substation Nos. 1 and 4 were completed under a separate contract in order to expedite replacement of the 5 kV switchgear in the Finished Water Pumping Station.

Service Area Bi-County Area

JUSTIFICATION

Plans & Studies

WSSC Memorandum by Timothy D. Hirrel, April 25, 2001; "Technical Memorandum No. 2," O'Brien & Gere Engineers, Inc. (November, 2001); "Potomac WFP Facility Plan," O'Brien & Gere Engineers, Inc. (September, 2002); Potomac WFP Improvements Design Development Report (August, 2003); "Potomac WFP Improvements Design Criteria Report," Post, Buckley, Schuh & Jernigan, Inc. (January, 2004); 5 kV Switchgear Improvements Design Development Report (January, 2004).

Specific Data

These projects are part of the program of improvements needed to reliably produce 273 MGD in the summer and 218 MGD in the winter in order to meet the April 25, 2001, Water Production Projections for the year 2030. Improvements to the flocculation and sedimentation processes may be needed in the future to increase the total plant capacity to meet projected demands.

Cost Change

Not Applicable

STATUS Under Construction (WSSC Contract Nos. BF2028D97 , BF2028H97).

OTHER

The project scope has remained the same. Expenditures and schedule are based upon actual bid. (\$89.5 million was the Guaranteed Maximum Price agreed to by Clark/Ulliman Schutte on the CM-at-Risk contract.)

COORDINATION

Montgomery County Government, Prince George's County Government, 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 WSSC Project W-172.05, Patuxent WFP Phase II Expansion(coordination of UV criteria).

NOTE This project supports 31% Growth, 49% System Improvement and 20% Environmental Regulation.

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

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

2. Date: October 1, 2008
 Revised: January 21, 2009

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

3. Project Name: Potomac WFP Submerged Channel Intake

4. Program: Sanitation 6. Planning Area: Bi-County

5. Agency: WSSC

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	5,105	1,687	400	3,018		1,470	1,000	299	175	74	
Land											
Site Improvements & Utilities											
Construction	17,353			17,353			220	7,691	5,550	3,892	
Other	2,078		40	2,038		147	122	799	573	397	
Total	24,536	1,687	440	22,409		1,617	1,342	8,789	6,298	4,363	

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	24,536	1,687	440	22,409		1,617	1,342	8,789	6,298	4,363	

D. Description & Justification

DESCRIPTION

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.

Service Area Bi-County Area

JUSTIFICATION

Plans & Studies
 "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).

Specific Data
 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.

Cost Change
 Costs were increased for inflation.

STATUS Planning (WSSC Contract No. BF2028F97,).

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. Once the project 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. Expenditures shown in Block B are planning level estimates only and may increase or decrease. Upon completion of preliminary design, a more reliable estimate can be made. Both Councils will review the results of the detailed study and must approve continuing with the project before design and construction may proceed.

E. Annual Operating Budget Impact (000's)

		FY of Impact
Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	2140 16
Total Costs		2140 16
Impact on Water or Sewer Rate.....	4¢	16

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 04
Date First Approved	FY 03
Initial Cost Estimate	936
Cost Estimate Last FY	23,887
Present Cost Estimate	24,536
Approved Request, Last FY	999
Total Expenditures & Encumbrances	1,687
Approval Request FY 10	
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Right-of-Way may be required

% Project Completion: P-75%

Est. Completion Date: FY 2015

H. Map **Map Reference Code:**

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, Prince George's County Department of Environmental Resources and U.S. Army Corps of Engineers.

NOTE This project supports 100% System Improvement.

A. Identification and Coding Information

2. Date: October 1, 2008 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

1. Project Number	Agency Number	Update Code
093801	W-138.02	Change

Revised: January 21, 2009

3. Project Name: Shady Grove Standpipe Replacement 5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: Gaithersburg & Vicinity P.A. 20

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	.....	671 13
Total Costs			671 13
Impact on Water or Sewer Rate.....			1¢ 13

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	515		124	391	70	178	143				
Land											
Site Improvements & Utilities											
Construction	6,180			6,180	190	4,500	1,490				
Other	1,004		19	985	39	701	245				
Total	7,699		143	7,556	299	5,379	1,878				

C. Funding Schedule (000's)

WSSC Bonds	7,699		143	7,556	299	5,379	1,878				
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D. Description & Justification

DESCRIPTION

This project provides for planning, design, and construction of up to 3 million gallons (MG) of elevated storage to replace the existing Shady Grove Standpipe. This is in lieu of extensive and costly maintenance for the existing facility which, because of the large volume of unusable storage inherent in a standpipe as opposed to an elevated facility, contributes to water quality problems such as loss of disinfectant residual and increases in undesirable disinfectant by-products.

Service Area Montgomery High Pressure Zone HG660 **Capacity** 3.0 MG

JUSTIFICATION

Plans & Studies
Water Storage Volume Criteria Report (November 2005); 2006 Water Production Projections; WSSC Memorandum dated May 7, 2007, from Karen Wright, Systems Control Group Leader; WSSC Memorandum dated May 24, 2007, from Tim Hirrei, Planning Group.

Specific Data
The existing 5 million gallon standpipe is in need of extensive repairs estimated to cost approximately \$2 million. Replacing the standpipe with a smaller elevated storage facility will provide the same level of service while helping to meet new USEPA regulations for disinfectant by-products and improving water quality.

Cost Change
Costs were increased for inflation.

STATUS Planning

OTHER
The project scope has remained the same. Expenditures shown in Block B are an Order of Magnitude estimate and may increase as the project proceeds.

COORDINATION
Maryland State Highway Administration, Montgomery County Government and Maryland-National Capital Park & Planning Commission.

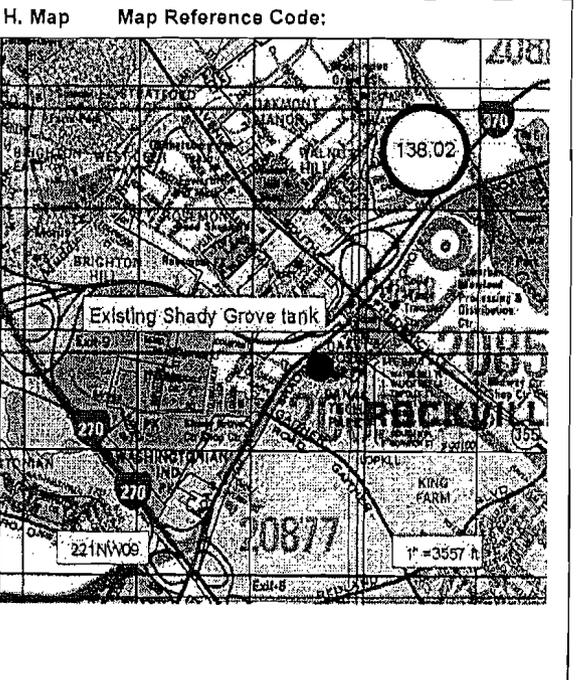
NOTE This project supports 100% System Improvement.

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 09
Date First Approved	FY 09
Initial Cost Estimate	7,475
Cost Estimate Last FY	7,475
Present Cost Estimate	7,699
Approved Request, Last FY	138
Total Expenditures & Encumbrances	
Approval Request FY 10	299
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not Applicable
% Project Completion: P-0%
Est. Completion Date: FY 2012



A. Identification and Coding Information

1. Project Number: 033807 | Agency Number: W-172.05 | Update Code: Change

2. Date: October 1, 2008 | Revised: January 21, 2009

3. Project Name: Patuxent WFP Phase II Expansion

4. Program: Sanitation | 5. Agency: WSSC | 6. Planning Area: Bi-County

7. Pre PDF Pg.No.: | 8. Req. Adeq. Pub. Fac.:

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	4,590	2,186	500	1,904	700	745	459				
Land											
Site Improvements & Utilities											
Construction	24,530			24,530		15,096	9,434				
Other	2,693		50	2,643	70	1,584	989				
Total	31,813	2,186	550	29,077	770	17,425	10,882				

C. Funding Schedule (000's)

WSSC Bonds	31,813	2,186	550	29,077	770	17,425	10,882				
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D. Description & Justification

DESCRIPTION

This project provides for the addition of a sixth treatment train, a new electrical substation, upgrades to existing yard piping, upgrades to chemical facilities and new UV disinfection facilities to the Patuxent WFP, along with an upgrade to the existing potassium permanganate feed system at the Patuxent Pretreatment Facility and upgrades to the existing sewer system at Switzer Lane to handle residuals from the plant.

Service Area: Bi-County Area | Capacity: 72 MGD nominal/110 MGD emergency

JUSTIFICATION

Plans & Studies
Patuxent WFP Facility Plan (April, 1997); In-House Study (April, 2002); Patuxent Expansion Design Criteria Report (April 2005)

Specific Data
Phase II will add a sixth treatment train consisting of a three stage flocculation chamber, sedimentation basin with chain and flight solids removal and plate settlers, disinfectant contact chamber, and two deep bed granular carbon filters. A fourth raw water pipeline from Rocky Gorge Raw Water Pipeline (W-172.07) and the modification and expansion of the Rocky Gorge Water Pumping Station (W-172.08) will provide a firm raw water pumping/transmission capacity of 110 MGD. These improvements will give the plant a firm nominal capacity of 72 MGD, with emergency capacity of 110 MGD. New UV disinfection facilities are being added to the plant in order to comply with upcoming EPA regulations for Cryptosporidium treatment and Stage 2 Disinfection Byproducts Rule.

Cost Change
Costs were increased as a result of additional design work required and escalation in labor costs due to project delay.

STATUS Preliminary Design (WSSC Contract No. BF1582H91,).

OTHER
The project scope has remained the same. Expenditure estimates shown above are preliminary design estimates and may change as the detailed design progresses. In the event of an outage at the Potomac WFP, additional capacity at the Patuxent WFP will reduce customer impact. However, emergency conservation measures will still be required. WSSC will seek federal funding for this project.

COORDINATION
Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Baltimore Gas & Electric and WSSC Projects W-172.07, Patuxent Raw Water Pipeline, W-172.08, Rocky Gorge Pump Station Upgrade and W-73.18, Power Reliability and Arc Flash Studies (Coordination of UV Criteria).

NOTE This project supports 28% System Improvement and 72% Environmental Regulation.

E. Annual Operating Budget Impact (000's)

		FY of Impact
Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	2774 13
Total Costs		2774 13
Impact on Water or Sewer Rate.....	5¢	13

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 04
Date First Approved	FY 03
Initial Cost Estimate	33,002
Cost Estimate Last FY	30,121
Present Cost Estimate	31,813
Approved Request, Last FY	13,475
Total Expenditures & Encumbrances	2,186
Approval Request FY 10	770
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: No land or R/W required

% Project Completion: D-60%

Est. Completion Date: FY 2012

H. Map | Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

2. Date: October 1, 2008 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

1. Project Number	Agency Number	Update Code
063804	W-172.07	Change

Revised: January 21, 2009

3. Project Name: Patuxent Raw Water Pipeline 5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: Bi-County

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	3,337	1,671	200	1,466		808	329	329			
Land											
Site Improvements & Utilities											
Construction	11,685	3,433	600	7,652		1,200	3,216	3,236			
Other	993		80	913		201	355	357			
Total	16,015	5,104	880	10,031		2,209	3,900	3,922			

C. Funding Schedule (000's)

WSSC Bonds	16,015	5,104	880	10,031		2,209	3,900	3,922			
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D. Description & Justification

DESCRIPTION

This project provides for community outreach, planning, design and construction of a new 48-inch diameter or larger raw water pipeline from the Rocky Gorge Raw Water Pumping Station to the Patuxent Water Filtration Plant, cleaning of the existing water lines and replacement of valves.

JUSTIFICATION

Plans & Studies
Patuxent WFP Facility Plan (April 1997); In-House Study (April 2002).

Specific Data
The existing raw water supply facilities are hydraulically limited to 72 MGD with all pumps running at the Rocky Gorge Pumping Station. In order to convey more than 72 MGD of raw water, a new raw water pipeline is required. A fourth raw water pipeline from Rocky Gorge Pumping Station to the Patuxent Plant and modification/expansion of the Rocky Gorge Pumping Station will provide a firm raw water pumping transmission capacity of 110 MGD. These improvements, in conjunction with expansion of the Patuxent Water Filtration Plant, will give the Plant a firm nominal capacity of 72 MGD, with an emergency capacity of 110 MGD.

Cost Change
Costs were increased for inflation.

STATUS Under Construction (WSSC Contract Nos. BF1582C91 , BF1582E91).

OTHER
The project scope has remained the same. The Rocky Gorge Valve Replacement is at C-96% complete. Design for cleaning the existing raw water pipelines is 100% complete. The new raw water pipeline portion of the project is still under planning review with construction deferred until FY'12. Expenditure estimates for the pipeline portion shown in Block B above are planning level estimates only and may change based upon the alignment chosen and design constraints. Construction will not proceed until both County Councils have approved the raw water pipeline alignment. Land costs are included in Project W-202.00.

COORDINATION
Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Interstate Commission on the Potomac River Basin, Local Community Civic Associations (West Laurel Civic Association), Baltimore Gas & Electric and WSSC Projects W-172.05, Patuxent WFP Phase II Expansion and W-172.08, Rocky Gorge Pump Station Upgrade.

NOTE This project supports 100% System Improvement.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance	128	14
	Debt Service	1397	14
Total Costs.....		1525	14
Impact on Water or Sewer Rate.....		3¢	14

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 06
Date First Approved	FY 03
Initial Cost Estimate	18,750
Cost Estimate Last FY	15,398
Present Cost Estimate	16,015
Approved Request, Last FY	1,803
Total Expenditures & Encumbrances	5,104
Approval Request FY 10	
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Land & R/W to be acquired

% Project Completion: C-40%

Est. Completion Date: See Block D "Other"

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
063805	W-172.08	Change

2. Date: October 1, 2008
 Revised: January 21, 2009

3. Project Name: Rocky Gorge Pump Station Upgrade

4. Program: **Sanitation** 6. Planning Area: Bi-County

5. Agency: **WSSC**

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	.....
	Other .....	.....
Facility Costs	Maintenance .....	.....
	Debt Service	1289	12
Total Costs.....		1289	12
Impact on Water or Sewer Rate.....		3¢	12

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	3,201	1,695	461	1,045	52	993					
Land											
Site Improvements & Utilities											
Construction	10,500		1,313	9,187	457	8,730					
Other	1,201		177	1,024	51	973					
Total	14,902	1,695	1,951	11,256	560	10,696					

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 06
Date First Approved	FY 03
Initial Cost Estimate	12,930
Cost Estimate Last FY	14,476
Present Cost Estimate	14,902
Approved Request, Last FY	4,506
Total Expenditures & Encumbrances	1,695
Approval Request FY 10	560
Supplemental Approval Request Current FY (09)	

C. Funding Schedule (000's)

WSSC Bonds	14,902	1,695	1,951	11,256	560	10,696					
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D. Description & Justification

DESCRIPTION

This project provides for the modification and/or expansion of the Rocky Gorge Pump Station to allow the station to provide up to 110 MGD of raw water to the Patuxent Water Filtration Plant.

JUSTIFICATION

Plans & Studies
 Patuxent WFP Facility Plan (April 1997); In-House Study (April 2002)

Specific Data
 The modification and expansion of the Rocky Gorge Raw Water Pumping Station will provide a firm raw water pumping capacity of 110 MGD. The improvements to the pump station, along with a fourth water pipeline (W-172.07) and expansion of the Patuxent Plant (W-172.05) will give the Patuxent Plant a firm nominal capacity of 72 MGD, with emergency capacity of 110 MGD.

Cost Change
 Cost estimates were increased for inflation.

STATUS Final Design (WSSC Contract No. BF1582G91,).

OTHER
 The project scope has remained the same. Costs shown are preliminary design level estimates only and may change based upon the alignment chosen and design constraints.

COORDINATION
 Maryland State Highway Administration, Montgomery County Government, Prince George's County Government, Maryland Department of the Environment, Baltimore Gas & Electric and WSSC Projects W-172.05, Patuxent WFP Phase II Expansion and W-172.07, Patuxent Raw Water Pipeline.

NOTE This project supports 100% System Improvement.

G. Status Information

Land Status: No land or R/W required
 % Project Completion: D-70%
 Est. Completion Date: March 2011

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

1. Project Number: 954811 | Agency Number: S-22.06 | Update Code: Change

2. Date: October 1, 2008 | Revised: May 7, 2009

3. Project Name: Blue Plains WWTP: Liquid Train Projects, Part 2

4. Program: Sanitation | 5. Agency: WSSC | 6. Planning Area: Bi-County

7. Pre PDF Pg.No.: | 8. Req. Adeq. Pub. Fac.:

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	18470
Total Costs.....		18470
Impact on Water or Sewer Rate.....		40¢

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	32,507	24,324	1,708	4,880	1,164	674	961	1,023	696	362	1,595
Land											
Site Improvements & Utilities											
Construction	189,393	168,148	8,330	6,845	3,591	977	158	23	193	1,903	6,070
Other	2,220	1,925	100	118	48	17	11	10	9	23	77
Total	224,120	194,397	10,138	11,843	4,803	1,668	1,130	1,056	898	2,288	7,742

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	211,816	183,726	9,581	11,192	4,539	1,576	1,068	998	849	2,162	7,317
City of Rockville	12,304	10,671	557	651	264	92	62	58	49	126	425

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of Blue Plains liquid train projects for which construction began after June 30, 1993. Major projects include: Improvements to Nitrification/Denitrification Facilities Upgrade; Filtration and Disinfection Rehabilitation; Nitrification Facility Upgrade; and Dual Purpose Sedimentation Basins Rehabilitation.

Service Area Bi-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies
The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DC-WASA Approved FY 2008 - FY 2017 Capital Improvement Program information (January, 2009).

Specific Data
This is a continuation of the DC-WASA's upgrading of the Blue Plains Wastewater Treatment Plant.

Cost Change
The cost decrease is primarily due to the transfer of the Nitrification/Denitrification Facilities initial upgrade and Lower Priority Work projects to project S-22.08, Blue Plains WWTP: Biological Nutrient Removal.

STATUS Not Applicable

OTHER
The project scope has remained the same. Project costs are derived from the DC-WASA Capital & Operating Budget 10-year forecast of spending and WASA's latest project management data, and fully reflect WASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF may 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. Expenditures shown in Column 9 are post-Intermunicipal Agreement. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION
District of Columbia Water & Sewer Authority (responsible for design and construction). (Biological Nutrient Removal costs are carried on WSSC Project S-22.08). (Enhanced Nutrient Removal costs are carried on WSSC Project S-22.10).

NOTE This project supports 100% System Improvement.

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	69,745
Cost Estimate Last FY	228,429
Present Cost Estimate	224,120
Approved Request, Last FY	15,981
Total Expenditures & Encumbrances	194,397
Approval Request FY 10	4,803
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

2. Date: October 1, 2008
 Revised: May 7, 2009

7. Pre PDF Pg.No.:
 8. Req. Adeq. Pub. Fac.

1. Project Number	Agency Number	Update Code
954812	S-22.07	Change

3. Project Name: Blue Plains WWTP: Biosolids Management, Part 2
 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 .....	....
	Debt Service	25564
Total Costs.....		25564
Impact on Water or Sewer Rate.....		55¢

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	67,791	33,860	3,429	30,502	8,410	5,441	6,169	5,541	4,941		
Land											
Site Improvements & Utilities											
Construction	239,336	59,340	3,405	176,327	7,779	40,597	53,075	53,319	19,592	1,965	264
Other	3,071	932	68	2,068	162	460	592	589	245	20	3
Total	310,198	94,132	6,902	208,897	16,351	46,498	59,836	59,449	24,778	1,985	267

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	293,170	88,965	6,523	197,430	15,453	43,946	56,551	56,186	23,418	1,876	252
City of Rockville	17,028	5,167	379	11,467	898	2,552	3,285	3,263	1,360	109	15

D. Description & Justification

DESCRIPTION

This project includes funding for WSSC's share of the Blue Plains Wastewater Treatment Plant biosolids handling projects for which construction began after June 30, 1993. Major projects include: new digestion facilities; centrifuge thickener facilities; and solids processing building/dewatered sludge loading facility.

Service Area Bi-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies
 The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); EPMC IV Facility Plan (CH2MHILL, 2001); the Biosolids Management at DCWASA Blue Plains Wastewater Treatment Plant Phase II - Design and Cost Considerations for Treatment Alternatives Report (December 2007); and the DC-WASA Approved FY 2008 - FY 2017 Capital Improvement Program information (January, 2009).

Specific Data
 This project is needed to implement a set of facilities which will provide a permanent biosolids management program for Blue Plains.

Cost Change
 The cost increase is due to the substantial increase in the Digester Facility project based upon the selected process which produces a horticultural grade product at approximately half the volume.

STATUS Not Applicable

OTHER
 The project scope has remained the same. Project costs are derived from the DC-WASA Capital & Operating Budget 10-year forecast of spending and WASA's latest project management data, and fully reflect WASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF may 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. Expenditures shown in Column 9 are post-Intermunicipal Agreement. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION
 District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% System Improvement.

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	77,296
Cost Estimate Last FY	235,904
Present Cost Estimate	310,198
Approved Request, Last FY	5,617
Total Expenditures & Encumbrances	94,132
Approval Request FY 10	16,351
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not applicable
 % Project Completion: On-Going
 Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

1. Project Number: 973817 Agency Number: S-22.08 Update Code: Change

2. Date: October 1, 2008 Revised: May 7, 2009

3. Project Name: Blue Plains WWTP: Biological Nutrient Removal

4. Program: Sanitation 5. Agency: WSSC 6. Planning Area: Bi-County

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	12,585	5,474	1,603	5,508	2,387	1,922	1,038	161			
Land											
Site Improvements & Utilities											
Construction	75,647	20,800	14,855	39,992	18,746	14,349	6,255	629	13		
Other	883	263	165	455	211	163	73	8			
Total	89,115	26,537	16,623	45,955	21,344	16,434	7,366	798	13		

C. Funding Schedule (000's)

WSSC Bonds	42,111	12,540	7,855	21,716	10,086	7,766	3,481	377	6		
State Aid	44,559	13,269	8,312	22,978	10,672	8,217	3,683	399	7		
City of Rockville	2,445	728	456	1,261	586	451	202	22			

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of the Blue Plains Biological Nutrient Removal Pilot Project and BNR Permanent Facility design and construction. The project includes modifications to the nitrification basins, methanol storage and feed facilities, a control building, addition of fine bubble diffusers, and improvements to the nitrification facilities (Phase II). This project is stipulated in the 1995 Consent Decree signed by the District of Columbia and the United States Department of Justice.

Service Area Bi-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies
Porter, MacNamee & Seely Study (1992); Civil Action No. 90-163; Civil Action No. 84-2842 JGP; the WASA Master Plan (1998); and the DC-WASA Approved FY 2008 - FY 2017 Capital Improvement Program information (January, 2009).

Specific Data
The initial \$12.1 million Pilot Project was planned as a phased, four year, half-plant trial. For the Pilot, portions of the nitrification basins were converted to anoxic zones with methanol added as the carbon source. After the Pilot Project proved successful in the first two years, the third and fourth years were not required and the design and construction of permanent BNR facilities commenced. The Consent Decree acknowledged that applying this technology was experimental.

Cost Change
The cost increase is due to the transfer of the Nitrification/Denitrification Facilities initial upgrade and Lower Priority Work projects from project S-22.06, Blue Plains WWTP: Liquid Train.

STATUS Under Construction

OTHER
The project scope has remained the same. The expenditure schedule shown above reflects the cost of permanent BNR facilities as required under the Consent Decree. Phase I and portions of Phase II are complete. The Maryland Department of the Environment (MDE) has, by agreement, committed to providing 50% grant funding for eligible costs.

COORDINATION
Maryland Department of the Environment and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.

E. Annual Operating Budget Impact (000's)

			FY of Impact
Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	3672	15
Total Costs		3672	15
Impact on Water or Sewer Rate.....	8¢		15

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 96
Date First Approved	FY 96
Initial Cost Estimate	12,189
Cost Estimate Last FY	57,785
Present Cost Estimate	89,115
Approved Request, Last FY	14,706
Total Expenditures & Encumbrances	26,537
Approval Request FY 10	21,344
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not applicable

% Project Completion: C-80%

Est. Completion Date: FY 2014

H. Map Map Reference Code:

MAP NOT AVAILABLE

A. Identification and Coding Information

2. Date: October 1, 2008
 Revised: January 21, 2009

7. Pre PDF Pg.No.:
 8. Req. Adeq. Pub. Fac.

1. Project Number	Agency Number	Update Code
083807	S-89.22	Change

3. Project Name: Anacostia Storage Facility
 5. Agency: WSSC

4. Program: Sanitation
 6. Planning Area:

E. Annual Operating Budget Impact (000's)

			FY of Impact
Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	2828	15
Total Costs.....		2828	15
Impact on Water or Sewer Rate.....		6¢	15

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	4,939	231	1,150	3,558	968	880	800	800	110		
Land											
Site Improvements & Utilities											
Construction	27,841			27,841	461	6,980	9,000	8,800	2,600		
Other	3,255		115	3,140	143	786	980	960	271		
Total	36,035	231	1,265	34,539	1,572	8,646	10,780	10,560	2,981		

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 08
Date First Approved	FY 08
Initial Cost Estimate	33,957
Cost Estimate Last FY	35,200
Present Cost Estimate	36,035
Approved Request, Last FY	1,320
Total Expenditures & Encumbrances	231
Approval Request FY 10	1,572
Supplemental Approval Request Current FY (09)	

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	32,432	208	1,139	31,085	1,415	7,781	9,702	9,504	2,683		
SDC	3,603	23	126	3,454	157	865	1,078	1,056	298		

G. Status Information

Land Status: Public/Agency owned land
 % Project Completion: D-10%
 Est. Completion Date: December 2013

D. Description & Justification

DESCRIPTION

This project provides for the customer outreach, planning, design and construction of a new seven million gallon sewer overflow storage facility and needed power reliability upgrades at the existing Anacostia No.2 Wastewater Pumping Station.

Service Area Lower Anacostia Drainage Basin Capacity 7 MG

JUSTIFICATION

Plans & Studies

"Anacostia Wastewater Pumping Station No.2 Hydraulic Study", Whitman Requardt and Associates, LLP (October 2005); "Overflow Event June 25 - 26; 2006 Anacostia WWPS", Whitman Requardt and Associates, LLP (November 2006); Preliminary Design Criteria Report, Whitman, Requardt & Associates (March 2008); Anacostia WWPS Power Reliability Study, Whitman Requardt and Associates, Shah & Associates (April 2008).

Specific Data

Currently, Anacostia WWPS No. 2 receives flows from the Hyattsville WWPS and by gravity from several basins within the Tributary Area of the Anacostia River. The WWPS discharge is piped directly to DC WASA's sewer system. By agreement between WSSC and DC WASA, the Anacostia WWPS No. 2 cannot discharge wastewater at a rate in excess of 199 MGD. In the past, during extreme rainfall events, the influent flow to Anacostia WWPS No. 2 exceeded the 199 MGD limit, thus creating sanitary overflows on the station site and/or at Junction Chamber No.1, in the vicinity of the Hyattsville WWPS. The Consent Decree between WSSC, MDE, and the EPA was entered into on December 7, 2005, stipulating that the WSSC develop and formally submit a Facility Plan for the Anacostia No. 2 Pump Station to EPA/MDE. The Facility Plan, which recommends the building of a new storage facility intended to eliminate weather related sanitary sewer overflows at the Anacostia No. 2 Pump Station, was approved by EPA/MDE July 31, 2006.

Cost Change

Cost estimates were increased to include needed power reliability upgrades for the existing Anacostia No. 2 Wastewater Pumping Station.

STATUS Preliminary Design (WSSC Contract No. CS4441A06,).

OTHER

The project scope remains the same. Expenditures shown in Block B are planning level estimates and may change based upon site specific conditions, design constraints and negotiations with the Maryland Department of the Environment (MDE). The new sewer overflow storage facility will be built on the site of the existing Anacostia No.2 Wastewater Pumping Station.

H. Map Map Reference Code:

MAP NOT AVAILABLE

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: S - 89.22

Project Name: Anacostla Storage Facility

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland Department of the Environment, Prince George's County Department of Environmental Resources, U.S. Army Corps of Engineers and U.S. Environmental Protection Agency, Region III.

NOTE This project supports 10% Growth and 90% Environmental Regulation.

A. Identification and Coding Information

1. Project Number: 093802 Agency Number: S-89.23 Update Code: Change

2. Date: October 1, 2008 Revised: January 21, 2009

3. Project Name: Anacostia No. 2 Screenings Handling Facilities

4. Program: Sanitation 5. Agency: WSSC

6. Planning Area: Bi-County

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff .....	.....
	Other .....	.....
Facility Costs	Maintenance .....	.....
	Debt Service	173	12
Total Costs.....		173	12
Impact on Water or Sewer Rate.....		.....

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	235		100	135	80	55					
Land											
Site Improvements & Utilities											
Construction	1,620		58	1,562	492	1,070					
Other	279		24	255	86	169					
Total	2,134		182	1,952	658	1,294					

C. Funding Schedule (000's)

WSSC Bonds	1,988		170	1,818	611	1,207					
District of Columbia Government	146		12	134	47	87					

D. Description & Justification

DESCRIPTION

This project provides for the collection and compaction of wastewater screened solids at Anacostia WWPS No. 2, allowing for off-site disposal, prior to conveyance to Blue Plains WWTP.

Service Area Lower Anacostia Drainage Basin **Capacity** 199 MGD

JUSTIFICATION

Plans & Studies
Anacostia Wastewater Pumping Station No. 2, Screenings Upgrade Study, Final Draft, Whitman, Requardt & Associates (March 2007)

Specific Data

This project is needed to replace the present practice of grinding wastewater screened solids and returning them to the flow for conveyance to Blue Plains WWTP, where they clog and damage filters. WSSC contributes a significant share of the cost of repairing and replacing those filters. Essentially all other sewage pumped to Blue Plains has the screenings removed for off-site disposal. The proposed screenings handling project will both increase the efficiency of the filter media and extend the service life of the filter bottoms at Blue Plains.

Cost Change
Not applicable.

STATUS Preliminary Design (WSSC Contract No. CP4733A07,).

OTHER

The project scope has remained the same. Expenditures in Block B are planning level estimates only and may change based upon specific conditions and design constraints.

COORDINATION

District of Columbia Water & Sewer Authority (DC-WASA funding in proportion to its 14 of 199 mgd sewage pumping station transmission limit.).

NOTE This project supports 100% System Improvement.

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 09
Date First Approved	FY 09
Initial Cost Estimate	2,071
Cost Estimate Last FY	2,071
Present Cost Estimate	2,134
Approved Request, Last FY	1,783
Total Expenditures & Encumbrances	
Approval Request FY 10	658
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not applicable

% Project Completion: D-0%

Est. Completion Date: June 2011

H. Map Map Reference Code:

A. Identification and Coding Information

1. Project Number: 063802 Agency Number: S-94.11 Update Code: Change

2. Date: October 1, 2008 Revised: January 21, 2009

3. Project Name: Damascus Centre WWPS Replacement

4. Program: Sanitation 5. Agency: WSSC 6. Planning Area: Damascus & Vicinity P.A. 11

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

E. Annual Operating Budget Impact (000's)

		FY of Impact
Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	47 13
Total Costs.....		47 13
Impact on Water or Sewer Rate.....		....

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	64		17	47		27	20				
Land											
Site Improvements & Utilities											
Construction	409			409		295	114				
Other	71		3	68		48	20				
Total	544		20	524		370	154				

F. Approval and Expenditure Data (000's)

Date First in Capital Program: FY 06

Date First Approved: FY 06

Initial Cost Estimate: 460

Cost Estimate Last FY: 528

Present Cost Estimate: 544

Approved Request, Last FY: 181

Total Expenditures & Encumbrances:

Approval Request FY 10:

Supplemental Approval Request Current FY (09):

C. Funding Schedule (000's)

WSSC Bonds	544		20	524		370	154				
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D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a new 0.29 MGD wastewater pumping station to replace the existing Damascus Centre WWPS.

Service Area Patuxent North Drainage Basin **Capacity** 0.29 MGD **Population** Damascus Centre Shopping Center and nearby commercial and residential areas.

JUSTIFICATION

Plans & Studies
Memorandum dated April 6, 2004, from Brian Mosby thru Tom Heikkinen to Steve Gerwin; Design Guideline DG-08.

Specific Data
This project is needed to replace the existing Damascus Centre WWPS, a privately-built package plant that was taken over by WSSC in the 1970's. The existing station is plagued with numerous problems and design deficiencies.

Cost Change
Not Applicable

STATUS Planning (WSSC Contract No. CP4508A06,).

OTHER
The project scope has remained the same. Costs shown are preliminary planning level estimates only and may change based upon site specific conditions and design constraints. The cost estimate is based on replacement of the existing station with a new station constructed to the new DG-08 Design Guideline for small wastewater pumping stations. If possible, WSSC will coordinate the location and design of the project with development interests in the Damascus Town Center area regarding options to also serve master plan-recommended projects from the replacement WWPS. Land costs are included in WSSC Project S-201.00.

COORDINATION
Montgomery County Government, Maryland-National Capital Park & Planning Commission and Montgomery County Department of Environmental Protection (Draft Damascus Master Plan).

NOTE This project supports 100% System Improvement.

G. Status Information

Land Status: Site not selected

% Project Completion: P-0%

Est. Completion Date: FY 2011

H. Map **Map Reference Code:**

MAP NOT AVAILABLE

A. Identification and Coding Information

1. Project Number:

Agency Number	Update Code
W-1.00	Change

 2. Date: October 1, 2008 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac. Revised: May 7, 2009

3. Project Name: Water Reconstruction Program 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 .....	.....
	Debt Service	45579	16
Total Costs.....		45579	16
Impact on Water or Sewer Rate.....		90¢	16

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	105,907		9,802	96,105	10,615	12,856	14,880	16,999	19,217	21,538	
Land											
Site Improvements & Utilities											
Construction	314,302		26,822	287,480	29,009	37,188	44,112	51,358	58,940	66,873	
Other	102,407		10,295	92,112	11,010	12,848	14,455	16,139	17,905	19,755	
Total	522,616		46,919	475,697	50,634	62,892	73,447	84,496	96,062	108,166	

C. Funding Schedule (000's)

WSSC Bonds	522,616		46,919	475,697	50,634	62,892	73,447	84,496	96,062	108,166	
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D. Description & Justification

DESCRIPTION

The purpose of this program is to renew and extend the useful life of water mains. Portions of the water system are more than 80 years old. Bare cast iron mains, installed generally before 1965, permit the build-up of tuberculation which can reduce flow and cause discoloration at the customer's tap. Selected replacement is necessary to supply water in sufficient quantity, quality and pressure for domestic use and fire fighting. As the system ages, water main breaks are increasing. Selected mains are chronically breaking and other mains are undersized for the current flow standards. Replacement of these mains provides added value to the customer. Galvanized, copper and cast iron water services, as well as all other water main appurtenances, are replaced on an as needed basis when they have exceeded their useful life.

* EXPENDITURES FOR WATER RECONSTRUCTION ARE EXPECTED TO CONTINUE INDEFINITELY.

Service Area Bi-CountyArea

JUSTIFICATION

Plans & Studies

Flow studies, water system modeling, and field surveys are routinely conducted. A staff level report: Water Main Condition Assessment, 1915-1998; Analysis and Recommendations by the Water Main Reconstruction Work Group (June, 1999) examined the historical main break data for performance measures to define, characterize, and prioritize the future replacement needs of the distribution system. An early outcome of this project identified the need to increase the frequency of water main replacement.

Specific Data

The program's projected work units and expenditure levels for FY'10 (including overhead) are as follows: main replacement, 31 miles - \$43.3 M; water house connection renewals, 1,540 services - \$3.0 M; large water service replacement program - \$4.3 M. Note: The specific mix and type of water main reconstruction may vary in any given year depending on the nature and priority of the work to be addressed, however, work is limited to the fiscal allocation for the program. Program level may change in future years subject to results of the 30 Year Infrastructure Plan.

Cost Change

The program costs increased to reflect an increase in replacement miles and greater emphasis on the large meter replacement program.

STATUS Under Construction

OTHER

The project scope has remained the same. The water reconstruction program has been ongoing since 1979. Funding in the six-year

F. Approval and Expenditure Data (000's)

Date First in Capital Program: FY --

Date First Approved: FY --

Initial Cost Estimate:

Cost Estimate Last FY: 410,188

Present Cost Estimate: 522,616

Approved Request, Last FY: 45,340

Total Expenditures & Encumbrances:

Approval Request FY 10: 50,634

Supplemental Approval Request Current FY (09):

G. Status Information

Land Status: Not applicable

% Project Completion: Not Applicable

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT APPLICABLE

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: W - 1.00

Project Name: Water Reconstruction Program

program period is subject to Spending Affordability Guideline limits. The following work accomplishments through FY'08 summarize the magnitude of the reconstruction effort: water main cleaning and lining, 1,137 miles completed; water main replacement, 175 miles completed. It is anticipated water reconstruction activity will be a perpetual element of future work programs.

COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including local municipalities where work is to be performed), Prince George's County Government (including local municipalities where work is to be performed), Prince George's County Department of Public Works & Transportation and Local Community Civic Associations.

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
	S-1.01	Change

2. Date: October 1, 2009

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

Revised: May 7, 2009

3. Project Name: Sewer Reconstruction Program

5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: Bi-County

B. Expenditure Schedule (000's)

	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Cost Elements											
Planning, Design & Supervision	106,574		14,736	91,838	10,122	20,535	20,993	15,877	16,353	7,958	
Land	4,000		3,300	700	700						
Site Improvements & Utilities											
Construction	360,227		49,256	310,971	37,704	68,188	69,719	53,136	54,729	27,495	
Other	81,097		11,124	69,973	8,281	15,478	15,823	11,988	12,348	6,055	
Total	551,898		78,416	473,482	56,807	104,201	106,535	81,001	83,430	41,508	

C. Funding Schedule (000's)

WSSC Bonds	547,898		78,416	469,482	52,807	104,201	106,535	81,001	83,430	41,508	
Federal Aid	4,000			4,000	4,000						

D. Description & Justification

DESCRIPTION

This program funds a comprehensive sewer system rehabilitation program. The main component of this program is the rehabilitation and/or repair of sewer mains and house connections. The program addresses infiltration and inflow control, exposed pipe problems, and future capacity needs for the basin. The rehabilitation and repair funded by this program includes the rehabilitation and repair recommended by comprehensive basin studies as well as that resulting from sewer systems evaluations, line blockage assessments, field surveys, and closed circuit tv inspections. This program does not include funding for any major capital projects (e.g. CIP size relief or replacement sewers) that may result from a comprehensive basin study. These are funded separately in the CIP.

* EXPENDITURES FOR SEWER RECONSTRUCTION ARE EXPECTED TO CONTINUE INDEFINITELY.

Service Area Bi-County Area

JUSTIFICATION

Plans & Studies

Comprehensive Basin Studies, Sewer System Evaluation Surveys, Line Blockage Assessments, field surveys, closed circuit TV inspections, trunk sewer walking, and/or other activities investigating specific portions of the collection system.

Specific Data

The program's projected work units and expenditure levels for FY'10 (including overhead) are as follows: Sewer reconstruction, 46 miles main lining - \$34.1 M; 11 miles lateral lining - \$14.5 M; sewer house connection renewals, 800 services - \$4.5 M; emergency repairs - \$3.0 M; purchase of Patuxent Reservoir buffer properties and easements for water supply protection - \$0.7M. Note: The specific mix and type of sewer reconstruction may vary in any given year depending on identified system defects. However, work is limited to the fiscal allocation for the program. Program level may change in future years subject to results of the 30 Year Infrastructure Plan.

Cost Change

The program cost increased to reflect increased costs for lateral lining miles.

STATUS Under Construction

OTHER

The project scope has remained the same. The program schedule and expenditures shown above reflect the terms of the Sanitary

E. Annual Operating Budget Impact (000's)

			FY of Impact
Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	47777	16
Total Costs.....		47777	16
Impact on Water or Sewer Rate.....	94¢ .....	....	16

F. Approval and Expenditure Data (000's)

Date First in Capital Program	<input type="text"/>	FY --
Date First Approved	<input type="text"/>	FY --
Initial Cost Estimate	<input type="text"/>	
Cost Estimate Last FY	<input type="text"/>	247,571
Present Cost Estimate	<input type="text"/>	551,898
Approved Request, Last FY	<input type="text"/>	32,363
Total Expenditures & Encumbrances	<input type="text"/>	
Approval Request FY 10	<input type="text"/>	56,807
Supplemental Approval Request Current FY (09)	<input type="text"/>	

G. Status Information

Land Status: Not applicable
 % Project Completion: Not Applicable
 Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT APPLICABLE

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: S - 1.01

Project Name: Sewer Reconstruction Program

Sewer Overflow Consent Decree. The Consent Decree between WSSC, Maryland Department of the Environment (MDE), and the EPA was entered into on December 7, 2005. The sewer reconstruction program was established in 1979.

The following work accomplishments through FY'08 summarize the magnitude of this reconstruction effort: sewer main reconstruction, 230 miles; and sewer house connection renewals, 14,022. It is anticipated that sewer reconstruction activity will be a perpetual element of future work programs.

COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including local municipalities where work is to be performed), Prince George's County Government (including local municipalities where work is to be performed), Maryland Department of the Environment (SSO Consent Decree Compliance), Prince George's County Department of Public Works & Transportation, U.S. Environmental Protection Agency, Region III (SSO Consent Decree Compliance) and Local Community Civic Associations.

A. Identification and Coding Information

2. Date: October 1, 2008 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

1. Project Number	Agency Number	Update Code
	A-102.00	Change

Revised: January 21, 2009

3. Project Name: Engineering Support Program 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 .....	....
	Debt Service	5738	16
Total Costs		5738	16
Impact on Water or Sewer Rate.....		11¢	16

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision											
Land											
Site Improvements & Utilities											
Construction	70,000		10,000	60,000	10,000	10,000	10,000	10,000	10,000	10,000	
Other											
Total	70,000		10,000	60,000	10,000	10,000	10,000	10,000	10,000	10,000	

C. Funding Schedule (000's)

WSSC Bonds	65,800		9,400	56,400	9,400	9,400	9,400	9,400	9,400	9,400	
Water Operating Funds	2,100		300	1,800	300	300	300	300	300	300	
Sewer Operating Funds	2,100		300	1,800	300	300	300	300	300	300	

D. Description & Justification

DESCRIPTION

The Engineering Support Program (ESP) represents a consolidation of a diverse group of projects whose unified purpose is to support the extensive water and sewer infrastructure and numerous support facilities that are owned, operated, and maintained by the WSSC.

* EXPENDITURES FOR ENGINEERING SUPPORT ARE EXPECTED TO CONTINUE INDEFINITELY.

Service Area Bi-County Area

JUSTIFICATION

Plans & Studies
In-house Study, (April 2002); Utility-Wide Master Plan Phase 1A, Sterns & Wheler (July 2007); Utility Master Plan Asset Management Strategy - Track 2 Phase 1 Final Asset Management Implementation Plan, Sterns & Wheler (April 2008)

Specific Data
ESP projects may be identified in the Utility-Wide Master Plan or result from direct requests from the Customer Care and Production Teams for engineering support. Support services are in the form of planning, design, and construction to meet a wide range of needs. As such, ESP projects are diverse in scope and typically include work needed to upgrade operating efficiency, modify existing processes, satisfy regulatory requirements, improve safety and security, or rehabilitate aging facilities. The ESP does not include proposed "major projects" which, by law, must be programmed in the WSSC Six-Year Capital Improvements Program or projects to serve new development.

Cost Change
Not applicable.

STATUS Under Construction

OTHER
The project scope has remained the same. The ESP process provides a stable funding level for projects that require engineering support. Each year, the requested projects will be prioritized and then initiated subject to the available funding for the fiscal year.

F. Approval and Expenditure Data (000's)

Date First In Capital Program	FY 87
Date First Approved	FY 87
Initial Cost Estimate	
Cost Estimate Last FY	
Present Cost Estimate	70,000
Approved Request, Last FY	10,000
Total Expenditures & Encumbrances	
Approval Request FY 10	10,000
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT APPLICABLE

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
	A-103.01	Add

2. Date: October 1, 2008

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

Revised: May 7, 2009

3. Project Name: Biogas Production Feasibility Study

5. Agency: **WSSC**

4. Program: **Sanitation**

6. Planning Area: Bi-County

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	300			300	200	100					
Land											
Site Improvements & Utilities											
Construction											
Other	45			45	30	15					
Total	345			345	230	115					

C. Funding Schedule (000's)

WSSC Bonds	69			69	46	23					
Federal Aid	276			276	184	92					

D. Description & Justification

DESCRIPTION

This feasibility study will develop a comprehensive program for the engineering, design, construction, maintenance, and monitoring and verification necessary to add sustainable energy equipment and systems to produce biogas at the Seneca and Piscataway Wastewater Treatment Plants. The program will provide a reduction in energy and energy-related costs (electricity, natural gas, and transportation and disposal of biosolids) which may in part be guaranteed by the contractor. The potential guaranteed reduction component includes annual avoided energy costs as well as operations and maintenance, chemicals, and biosolids transportation and disposal costs. The program will enhance existing operating conditions and reliability while continuing to meet all permit requirements, and ensure a continued commitment to environmental stewardship at WSSC sites. The scope of work may include, but is not limited to, the addition of anaerobic digestion equipment, gas cleaning systems, hydrogen sulfide and siloxane removal, tanks, piping, valves, pumps, sludge dewatering/thickening equipment, grit removal, effluent disinfection systems, instrumentation, flow metering, power measurement, and combined heat and power generation systems.

If the project, or a portion of it, is accomplished as an Energy Performance Project, a baseline will be established to identify energy usage/costs and biosolids hauling and disposal costs before the energy conservation measures (equipment upgrades) are implemented. After all construction is completed and accepted by the WSSC, the combined baseline for all energy conservation measures will be compared annually to the actual energy savings to determine whether the guaranteed savings have been met. The contractor will pay the WSSC for any yearly shortfall if the total guaranteed savings figure is not achieved on a yearly basis. If the actual savings exceed the guaranteed amount based on a yearly verification, the WSSC retains the savings.

JUSTIFICATION

Plans & Studies

Appel Consultants, Urban Waste Grease Resource Assessment-NREL (November 1998); EPA, Opportunities For and Benefits Of Combined Heat and Power at Wastewater Treatment Facilities (December 2006); Brown & Caldwell, Anaerobic Digestion and Electric Generation Options for WSSC, (November 2007); Metcalf & Eddy, WSSC Sludge Digestion Study for Piscataway and Seneca (December 2007); Black & Veatch, WSSC Digester Scope and Analysis, (December 2007); JMT, Western Research Institute (WRI) Biogas Feasibility Study Scope of Work - WSSC (April 2008); JMT, Prince George's County Septage Discharge Facility Study (FOG); JMT, Montgomery County Septage Discharge Facility Study (FOG).

Specific Data

The EPA is urging wastewater utilities to utilize this commercially available technology (anaerobic digestion) to produce power at a cost below retail electricity, displace purchased fuels for thermal needs, produce renewable fuel for green power programs, enhance power reliability for the wastewater treatment plant to prevent sanitary sewer overflows, reduce biosolids production and improve the health of

E. Annual Operating Budget Impact (000's)

		FY of Impact
Program Costs	Staff .....	.....
	Other .....	.....
Facility Costs	Maintenance .....	.....
	Debt Service	6 12
Total Costs		6 12
Impact on Water or Sewer Rate.....		.....

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 10
Date First Approved	FY 10
Initial Cost Estimate	345
Cost Estimate Last FY	
Present Cost Estimate	345
Approved Request, Last FY	
Total Expenditures & Encumbrances	
Approval Request FY 10	230
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: No land or R/W required
 % Project Completion: Not Applicable
 Est. Completion Date: (See "Specific Data" for details.)

H. Map Map Reference Code:

MAP NOT APPLICABLE

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: A - 103.01

Project Name: Biogas Production Feasibility Study

the Chesapeake Bay, and to reduce greenhouse gas (GHG) and other air pollutants.

Based on the EPA's engineering "rules of thumb" for considering combined heat and power generation systems at a wastewater treatment plant, the Production Team believes that a capital investment of \$10,000,000 - \$12,000,000 for each plant (Seneca and Piscataway) will result in an estimated savings of \$1,000,000/year per plant in lower electricity and biosolids production costs based in part upon improved solids thickening (4% prior to digestion), two stage digestion (to improve gas production and digester efficiency), process building, pumps, piping, heat exchangers, and 350-750 kW fuel cell generator, and Class A biosolids output for each plant.

Cost Change

Not Applicable

STATUS Planning

OTHER

The project scope was developed for the FY 2010 CIP and has an estimated total cost for the study of \$345,000. The feasibility study phase of the project will include analysis and recommended anaerobic process (Mesophilic or Thermophilic); analysis of potential enhancements to optimize gas production; viability of grease trap waste disposal for added energy recovery utilizing WSSC FOG Report recommendations; evaluation of digester processes, evaluation of optimum Solids Residence Time (SRT), etc., to produce Class A or Class B biosolids; odor control mitigation; operational impacts (and mitigation methods) to the liquid side to maintain the integrity and reliability of the Enhanced Nutrient Removal (ENR) design of both plants; analysis of potential biosolids problems including fecal regrowth and odor quality; analysis of engine, turbine, and fuel cell power systems and heat recovery options; and development of preliminary capital cost and lifecycle cost estimates.

The study consists of three Tasks: Task I will provide a technology overview to develop preliminary costs and equipment requirements to allow identification of the options that best support the WSSC's long-term goals; Task II will further develop the selected alternatives, to provide detailed cost estimates and equipment requirements and will provide a Basis of Design document to guide subsequent detailed design; and Task III will summarize the recommendations in a technical report to the Commission.

At the completion of the feasibility study, the Commission will have a defined scope, capital cost, and energy and energy-related cost savings estimates (including GHG credit savings) to be able to proceed with the detailed design and construction of the Biogas and/or combined heat and power generation system facility. As part of the feasibility study, the digestion and side stream, odor control, and all primary processes will be determined, as will the bi-product selection and generation technology, size, and capacity of all major process equipment.

It is envisioned that either the entire project, or only the portion of the project that includes the production of bio-methane, methanol, or combined heat and power, include a guarantee by the Contractor that the capital cost will be paid back 100% from energy and energy-related cost savings with the payback period not exceeding 15 years. The energy savings for other completed WSSC Energy Performance projects have surpassed the contracts' guaranteed amount every year of the monitoring and verification period. The annual energy and energy-related savings guarantee of the energy performance portion of the project is estimated to be \$2,000,000.

Additional savings in the form of Carbon Credits are estimated to be captured starting in FY'11, within the Regional Greenhouse Gas Initiative (RGGI) auction process established by the Maryland Department of the Environment or through a new Federal Cap and Trade Program. The value of these credits is expected to add approximately 10-15% to the anticipated annual energy and energy-related (biosolids reduction) savings from the installation of energy efficient equipment in the WSSC's wastewater treatment plants included in this program. We will be able to develop more detailed information on which to base a more accurate estimate of the value of these credits as State and Federal programs regulations are formalized. In March 2009 WSSC received notice of award of a federal grant of \$570,900 through the U.S. Department of Energy. The funding schedule above reflects the 80% federal funding share and the WSSC's required 20% local share.

COORDINATION

Montgomery County Government, Prince George's County Government, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Prince George's County Department of Environmental Resources and WSSC Projects S-53.21, Seneca WWTP Enhanced Nutrient Removal, S-53.22, Seneca WWTP Expansion, Part 2 and S-96.12, Piscataway WWTP Enhanced Nutrient Removal.

NOTE This project supports 100% System Improvement.

**PART I: WASHINGTON SUBURBAN SANITARY COMMISSION
CAPITAL PROJECTS TO BE CLOSED OUT**

The Washington Suburban Sanitary Commission has authorized the close out of the following Montgomery County and Bi-County Projects.

<u>COUNTY NUMBER</u>	<u>CATEGORY</u>	<u>PROJECTS</u>
043802	Montgomery	Fortune Parc Sewer Main
043800	Montgomery	Lower Seneca Basin Sewer
934813	Montgomery	Observation Drive Water Main, PT 3
033806	Montgomery	Seneca WWTP Ultraviolet Disinfection Facilities
083808	Bi-County	Septic Discharge Facility Study
083805	Montgomery	Upper Rock Relief Sewer
973835	Bi-County	Wheaton Water Main Modifications