

Resolution No:	<u>16-1379</u>
Introduced:	<u>May 27, 2010</u>
Adopted:	<u>May 27, 2010</u>

**COUNTY COUNCIL  
FOR MONTGOMERY COUNTY, MARYLAND**

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By: County Council

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**SUBJECT:** Approval of the FY11-16 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, 2009, WSSC transmitted its Proposed CIP for Fiscal Years 2011-2016.
3. On January 15, 2010, the County Executive transmitted his recommendations regarding the FY 2011-2016 WSSC CIP.
4. On January 20, 2010, WSSC transmitted a mid-cycle update to its Proposed CIP for Fiscal Years 2011-2016. This update included proposed changes to 7 CIP 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 16, 2010 and February 17, 2010.
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 13, 2010, 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**

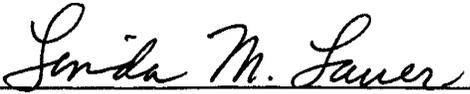
The County Council for Montgomery County, Maryland approves the following resolution for the Washington Suburban Sanitary Commission:

1. The Council approves the projects in the WSSC Proposed CIP for FY11-16 as transmitted on October 1, 2009, except those projects which are approved as modified by the Montgomery and Prince George's County Councils. Amended project description forms are attached to this resolution and are identified by the following WSSC project numbers:

S-22.06, S-22.07, S-22.08, S-22.09, S-22.10, S-22.11, S-170.09

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

This is a correct copy of Council action.

  
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Linda M. Lauer, Clerk of the Council







**A. Identification and Coding Information**

1. Project Number: 023805    Agency Number: S-22.09    Update Code: Change

2. Date: October 1, 2009    Revised: January 20, 2010

3. Project Name: Blue Plains WWTP: Plant-wide Projects

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 .....	15070
<b>Total Costs</b> .....		<b>15070</b>
Impact on Water or Sewer Rate.....		32¢

**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	44,172	35,077	1,558	6,705	1,062	2,207	1,123	1,121	880	312	832
Land											
Site Improvements & Utilities											
Construction	133,961	93,694	6,531	31,294	8,625	5,599	5,190	6,877	4,374	629	2,442
Other	1,782	1,288	81	380	97	78	63	80	53	9	33
<b>Total</b>	<b>179,915</b>	<b>130,059</b>	<b>8,170</b>	<b>38,379</b>	<b>9,784</b>	<b>7,884</b>	<b>6,376</b>	<b>8,078</b>	<b>5,307</b>	<b>950</b>	<b>3,307</b>

**F. Approval and Expenditure Data (000's)**

Date First in Capital Program	FY 95
Date First Approved	FY 02
Initial Cost Estimate	84,650
Cost Estimate Last FY	197,842
Present Cost Estimate	179,915
Approved Request, Last FY	18,126
Total Expenditures & Encumbrances	130,059
Approval Request FY 11	9,784
Supplemental Approval Request Current FY (10)	

**C. Funding Schedule (000's)**

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	170,040	122,920	7,722	36,273	9,247	7,451	6,026	7,635	5,016	898	3,125
City of Rockville	9,875	7,139	448	2,108	537	433	350	443	291	52	182

**G. Status Information**

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

**D. Description & Justification**

**DESCRIPTION**

This project provides funding for WSSC's share of Blue Plains plant-wide projects for which construction began after June 30, 1993. Major projects include: Process Control Computer Systems; Electrical Power Systems Additions, Phases I & II; High Priority Rehabilitation Program; and Plant-wide Fine Bubble Aeration Conversion.

**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 DCWASA Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

**Specific Data**

This is a continuation of the DCWASA's upgrading of the Blue Plains Wastewater Treatment Plant.

**Cost Change**

Expenditures shown above now exclude costs for currently active projects "outside the fence" of the wastewater treatment plant. Beginning with the FY 2011 CIP, those costs have been split out and are shown under project S-22.11: Blue Plains Pipelines and Appurtenances. However, the design and construction costs for Electrical Power System Switch Gear and Process Computer Control System have increased.

**STATUS** Not Applicable

**OTHER**

The project scope has been revised for the FY 2011 CIP to exclude expenditures for currently active projects outside the fence of plant. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect DCWASA's current expenditure estimates and schedules. Given the open-ended nature of the project, 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.

**COORDINATION**

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

**NOTE** This project supports 100% System Improvement.

**H. Map    Map Reference Code:**

**MAP NOT AVAILABLE**

8-56



**A. Identification and Coding Information**

1. Project Number: 113804    Agency Number: S-22.11    Update Code: Change

2. Date: October 1, 2009    Revised: January 20, 2010

3. Project Name: Blue Plains: Pipelines & Appurtenances

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	.....	8475
Total Costs		.....	8475
Impact on Water or Sewer Rate		.....	18¢

**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	20,901	1,129	2,896	13,639	3,134	1,907	2,892	2,320	1,968	1,418	3,237
Land											
Site Improvements & Utilities											
Construction	80,915	6,434	15,332	48,944	6,105	4,313	14,344	11,688	6,360	6,134	10,205
Other	1,017	76	182	625	92	62	172	140	83	76	134
<b>Total</b>	<b>102,833</b>	<b>7,639</b>	<b>18,410</b>	<b>63,208</b>	<b>9,331</b>	<b>6,282</b>	<b>17,408</b>	<b>14,148</b>	<b>8,411</b>	<b>7,628</b>	<b>13,576</b>

**F. Approval and Expenditure Data (000's)**

Date First in Capital Program	FY 11
Date First Approved	FY 02
Initial Cost Estimate	102,833
Cost Estimate Last FY	
Present Cost Estimate	102,833
Approved Request, Last FY	
Total Expenditures & Encumbrances	7,639
Approval Request FY 11	9,331
Supplemental Approval Request Current FY (10)	

**C. Funding Schedule (000's)**

	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
WSSC Bonds	97,187	7,220	17,399	59,737	8,819	5,937	16,452	13,371	7,949	7,209	12,831
City of Rockville	5,646	419	1,011	3,471	512	345	956	777	462	419	745

**G. Status Information**

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

**D. Description & Justification**

**DESCRIPTION**

This project provides funding for WSSC's share of Blue Plains-associated projects which are "outside the fence" of the treatment plant. Major projects include: Potomac Interceptor Rehabilitation; Upper Potomac Interceptor; Potomac Sewage Pumping Station Rehabilitation; Influent Sewers Rehabilitation; and the new projects associated with the Combined Sewer Overflow (CSO) Long Term Control Plan (e.g. Anacostia Tunnel).

**Service Area** Bi-County Area      **Capacity** Various

**JUSTIFICATION**

**Plans & Studies**  
The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DCWASA Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

**Specific Data**  
This is a continuation of DCWASA's upgrading of the Blue Plains-associated projects outside the fence.

**Cost Change**  
The cost for this project has increased due to increased costs for design and construction for Potomac Interceptor projects and, the addition of the Anacostia Tunnel portion of the Long Term Control Program.

**STATUS** Not Applicable

**OTHER**  
The project scope was developed for the FY 2011 CIP as a split from the existing, S-22.09, Blue Plains WWTP: Plant-wide Projects. The creation of this Pipelines & Appurtenances project is justified by language in the Blue Plains Intermunicipal Agreement, and the expected increases in costs for new and existing projects outside the fence. Expenditures shown above include costs for currently active projects outside the fence which were previously shown in the Plant-wide project. Project costs are derived from the DC-WASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect WASA's current expenditure estimates and schedules. Given the open-ended nature of the project, 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.

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

**NOTE** This project supports 45% System Improvement and 55% Environmental Regulation.

**H. Map    Map Reference Code:**

**MAP NOT AVAILABLE**

001503

**D. DESCRIPTION & JUSTIFICATION (CONT.)**

Agency Number: S - 22.11

Project Name: Blue Plains: Pipelines & Appurtenances

**A. Identification and Coding Information**

1. Project Number: 113805    Agency Number: S-170.09    Update Code: Add

2. Date: October 1, 2009    Revised: January 20, 2010

3. Project Name: Trunk Sewer Reconstruction Program

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

5. Agency: WSSC

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

**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	121,768		14,172	107,596	17,162	34,223	29,045	13,910	10,157	3,099	
Land											
Site Improvements & Utilities											
Construction	307,476			307,476	16,055	91,588	94,335	58,029	40,310	7,159	
Other	75,749		2,501	73,248	5,862	22,202	21,773	12,695	8,906	1,810	
<b>Total</b>	<b>504,993</b>		<b>16,673</b>	<b>488,320</b>	<b>39,079</b>	<b>148,013</b>	<b>145,153</b>	<b>84,634</b>	<b>59,373</b>	<b>12,068</b>	

**C. Funding Schedule (000's)**

WSSC Bonds	504,993		16,673	488,320	39,079	148,013	145,153	84,634	59,373	12,068	
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**D. Description & Justification**

**DESCRIPTION**

The Trunk Sewer Reconstruction Program provides for the inspection, evaluation, planning, design and construction required for the rehabilitation of sewer mains 15-inches in diameter and larger and their associated manholes.

**JUSTIFICATION**

**Plans & Studies**  
WSSC Sanitary Sewer Overflow Consent Decree (December 7, 2005)

**Specific Data**  
Under the terms of the Consent Decree the WSSC Trunk Sewer Inspection program will inspect approximately 625 miles of sewers in 21-basins by December 2010, Sewer System Evaluation Surveys (SSES) will be conducted for 9 basins by December 2013, and WSSC shall conduct rainfall, groundwater and flow monitoring to determine I/I rates and identify areas of limited capacity through collection system modeling. Where appropriate, WSSC shall use additional means to identify sources of I/I, including CCTV, smoke and/or dye testing.

Once the Trunk Sewer Inspections, SSES work and other related collection system evaluations are complete, a Sewer Basin Repair, Replacement, Rehabilitation Plan (SR3 Plan) for each basin will be completed as required by Article 6 of the Consent Decree. To date, five SR3 Plans have been submitted to the EPA and MDE including Broad Creek (SSES), Rock Creek (SSES), Oxon Run (non-SSES), Northwest Branch (non-SSES), and Silgo Creek (non-SSES). Another 16 SR3 Plans are scheduled for submission in FY10 totaling approximately 215 miles of trunk sewers identified for rehabilitation.

**Cost Change**  
Not applicable.

**STATUS** Planning

**OTHER**  
The project scope was developed for the FY2011 CIP and has a total project cost of \$504,993,000. This project was split out from the existing S-1.01, Sewer Reconstruction Program in the Information Only section of the CIP to separately identify the 15-inch diameter and larger trunk sewers included in WSSC's overall plans for sewer reconstruction. Expenditures shown above in FY 2010 were previously included in the S-1.01, Sewer Reconstruction Program. The expenditures and schedule shown in Block B above are preliminary planning level estimates and are expected to change as the individual basin designs are completed and construction contracts are bid. The design work for the SR3 Plans pertaining to Trunk Sewer reconstruction will begin in FY 2010 and is projected to be completed by the end of FY 2013. Construction will begin in each basin as the individual designs are completed over the three-year period.

**E. Annual Operating Budget Impact (000's)**

		FY of Impact
Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service .....	44035 .... 17
Total Costs.....		44035 .... 17
Impact on Water or Sewer Rate.....		95¢ .... 17

**F. Approval and Expenditure Data (000's)**

Date First in Capital Program	FY 11
Date First Approved	FY 11
Initial Cost Estimate	504,993
Cost Estimate Last FY	
Present Cost Estimate	504,993
Approved Request, Last FY	
Total Expenditures & Encumbrances	
Approval Request FY 11	39,079
Supplemental Approval Request Current FY (10)	

**G. Status Information**

Land Status: Right-of-Way may be required

% Project Completion: P-30%

Est. Completion Date: FY 2016

**H. Map    Map Reference Code:**

NOT APPLICABLE

**D. DESCRIPTION & JUSTIFICATION (CONT.)**

**Agency Number: S - 170.09**

**Project Name: Trunk Sewer Reconstruction Program**

For FY 2011, construction is scheduled to begin in the Broad Creek, Rock Creek and Sligo Creek Basins, encompassing approximately 13 miles of mainline reconstruction and including pipeline protection from high stream flows and stream bank erosion where required.

The reconstruction that will be performed in each sewer basin will be prioritized to most effectively prevent SSOs and backups. Reconstruction work will include: reduction of inflow and infiltration; replacement of substandard sewer segments; in situ lining of sewer segments; pipeline and manhole protection; rebuilding of manholes; and correction of structural defects and poor alignment. The Consent Decree requires that all rehabilitation work be substantially complete by December 5, 2015.

**COORDINATION**

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Prince George's County Department of Public Works & Transportation, U.S. Environmental Protection Agency, Region III and WSSC Project S-1.01, Sewer Reconstruction Program.

**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>
894832	Bi-County	Potomac WFP Hydropneumatic Surge Tanks
083809	Bi-County	Wastewater System Master Plan
083806	Bi-County	Water System Master Plan