

Resolution No:	<u>16-583</u>
Introduced:	<u>May 22, 2008</u>
Adopted:	<u>May 22, 2008</u>

COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND

By: County Council

Subject: Approval of the FY 2009-2014 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. Article 29, Section 7-105 (d) (1) authorizes the Council to approve, disapprove, or modify the WSSC CIP.
3. 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 5 and 6, 2008.
4. 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.
5. 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.
6. On May 8, 2008, 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

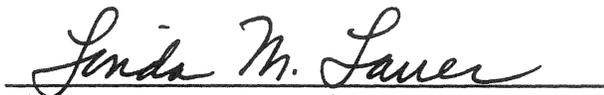
The County Council for Montgomery County, Maryland approves the following resolution for the Washington Suburban Sanitary Commission:

1. The Council approves the projects in the WSSC Proposed CIP for FY 2009-2014, 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 2009-2014. 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:

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

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: 954811 Agency Number: S-22.06 Update Code: Change

2. Date: October 1, 2007 Revised: May 8, 2008

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

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	19594
Total Costs.....		19594
Impact on Water or Sewer Rate.....		42¢

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	28,563	19,852	2,734	5,397	1,373	933	747	824	831	689	580
Land											
Site Improvements & Utilities											
Construction	198,901	162,738	12,227	22,108	14,450	5,774	1,739			145	1,828
Other	965	517	150	274	158	67	25	8	8	8	24
Total	228,429	183,107	15,111	27,779	15,981	6,774	2,511	832	839	842	2,432

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	215,889	173,056	14,281	26,254	15,104	6,402	2,373	786	793	796	2,298
City of Rockville	12,540	10,051	830	1,525	877	372	138	46	46	46	134

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 Secondary Treatment; Grit Chamber Buildings; Nitrification/Denitrification Facilities Upgrade; Filtration Facilities Pumping System; and Filtration and Disinfection 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 Proposed FY 2007 - FY 2016 Capital Improvement Program information (October, 2007).

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

Cost Change
The cost decrease in the six-year period is attributable to construction progress on the Grit Chamber Buildings, Influent Screens, Secondary Treatment Facilities, Nitrification Facilities, and Filtration/Disinfection Facilities Phase I projects.

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	236,638
Present Cost Estimate	228,429
Approved Request, Last FY	12,649
Total Expenditures & Encumbrances	183,107
Approval Request FY 09	15,981
Supplemental Approval Request Current FY (08)	

G. Status Information

Land Status: Not applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

11-243

A. Identification and Coding Information

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

2. Date: October 1, 2007 Revised: May 8, 2008

3. Project Name: Blue Plains WWTP: Biosolids Management, Part 2

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	20235
Total Costs.....		20235
Impact on Water or Sewer Rate.....		44¢

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	40,123	33,553	1,365	4,610	543	1,828	720	488	401	630	595
Land											
Site Improvements & Utilities											
Construction	194,026	54,865	2,564	113,691	5,018	12,410	12,810	18,383	30,231	34,839	22,906
Other	1,755	298	39	1,183	56	142	135	189	306	355	235
Total	235,904	88,716	3,968	119,484	5,617	14,380	13,665	19,060	30,938	35,824	23,736

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	238,552
Present Cost Estimate	235,904
Approved Request, Last FY	2,630
Total Expenditures & Encumbrances	88,716
Approval Request FY 09	5,617
Supplemental Approval Request Current FY (08)	

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	222,955	83,846	3,750	112,926	5,309	13,591	12,915	18,014	29,240	33,857	22,433
City of Rockville	12,949	4,870	218	6,558	308	789	750	1,046	1,698	1,967	1,303

G. Status Information

Land Status: Not applicable

% Project Completion: On-Going

Est. Completion Date: On-Going

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 additional dewatering facilities.

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); and the DC-WASA Proposed FY 2007 - FY 2016 Capital Improvement Program information (October, 2007).

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 in the six-year period is attributable to the addition of Area Electrical Substation No. 6 as a new project, and another year of construction of the deferred Digester Facility entering the last year of the period.

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.

H. Map Map Reference Code:

MAP NOT AVAILABLE

1-244

A. Identification and Coding Information

2. Date: October 1, 2007 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

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

Revised: May 8, 2008

3. Project Name: Blue Plains WWTP: Biological Nutrient Removal 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	2500
Total Costs		2500
Impact on Water or Sewer Rate.....		5¢

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	7,833	4,284	871	2,162	574	613	490		33	452	516
Land											
Site Improvements & Utilities											
Construction	49,555	15,168	5,989	28,398	13,986	10,159	4,248	5			
Other	397	17	69	306	146	108	47			5	5
Total	57,785	19,469	6,929	30,866	14,706	10,880	4,785	5	33	457	521

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	40,302
Present Cost Estimate	57,785
Approved Request, Last FY	3,436
Total Expenditures & Encumbrances	19,469
Approval Request FY 09	14,706
Supplemental Approval Request Current FY (08)	

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	27,549	9,200	3,274	14,583	6,949	5,141	2,261	2	15	215	492
State Aid	28,635	9,735	3,465	15,435	7,353	5,440	2,393	3	17	229	
City of Rockville	1,601	534	190	848	404	299	131		1	13	29

G. Status Information

Land Status: Not applicable

% Project Completion: C-47%

Est. Completion Date: FY 2012

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 Proposed FY 2007 - FY 2016 Capital Improvement Program information (October, 2007).

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
Costs increased due to higher construction bid prices than expected in the Engineer's estimate.

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 in the amount shown. However, MDE has not yet agreed that all of the Phase II costs are grant eligible.

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.

H. Map Map Reference Code:

MAP NOT AVAILABLE

11-245

A. Identification and Coding Information

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

2. Date: October 1, 2007
 Revised: May 8, 2008

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

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)

Program Costs	Staff .....	....	FY of Impact
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service	13493	
Total Costs.....		13493	
Impact on Water or Sewer Rate.....		29¢	

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	33,769	25,354	2,290	6,094	1,811	2,005	854	692	620	112	31
Land											
Site Improvements & Utilities											
Construction	122,789	84,271	8,435	29,583	9,841	8,172	2,275	4,986	3,814	495	500
Other	740	271	107	357	117	102	31	57	44	6	5
Total	157,298	109,896	10,832	36,034	11,769	10,279	3,160	5,735	4,478	613	536

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	161,298
Present Cost Estimate	157,298
Approved Request, Last FY	20,056
Total Expenditures & Encumbrances	109,896
Approval Request FY 09	11,769
Supplemental Approval Request Current FY (08)	

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	148,663	103,863	10,237	34,056	11,123	9,715	2,987	5,420	4,232	579	507
City of Rockville	8,635	6,033	595	1,978	646	564	173	315	246	34	29

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; Central Office Facility Renovations; Additional Chemical Systems and Transmission Improvements; Electrical Power Systems Additions, Phases I & II; Alternative Disinfection Facilities; High Priority Rehabilitation Program; and Potomac Interceptor, Upper Potomac Interceptor, and Potomac Pumping Station Rehabilitations.

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 Proposed FY 2007 - FY 2016 Capital Improvement Program information (October, 2007).

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

Cost Change
 The cost decrease in the six-year period is attributable to construction progress on the Central Operations Facility Upgrades, Process Control Computer System, and Potomac and Rock Creek sewage pumping stations projects.

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.

G. Status Information

Land Status: Land & R/W to be acquired
 % Project Completion: On-Going
 Est. Completion Date: On-Going

H. Map Map Reference Code:

MAP NOT AVAILABLE

11-246

**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>
973837	Bi-County	Patuxent Water Treatment Implementation
053803	Montgomery	Piedmont Road Water Main
053801	Montgomery	Poolesville WWTP: Biological Nutrient Removal
033809	Bi-County	Potomac WFP Chemical Feed Facilities
973821	Montgomery	Seneca WWTP Expansion