

THE PRINCE GEORGE'S COUNTY GOVERNMENT

(301) 952-3700

MEMORANDUM

County Council

APR 1 1 2018

TO:

Todd M. Turner, Chair

Transportation. Housing and the Environment (THE) Committee

THRU:

Robert J. Williams Council Administrator

FROM:

Canjor D. Reed, Senior Auditor

Office of Audits and Investigations

RE:

WSSC Fiscal Year (FY) 2019 - 2024 Proposed Capital Improvements

Program Staff Report

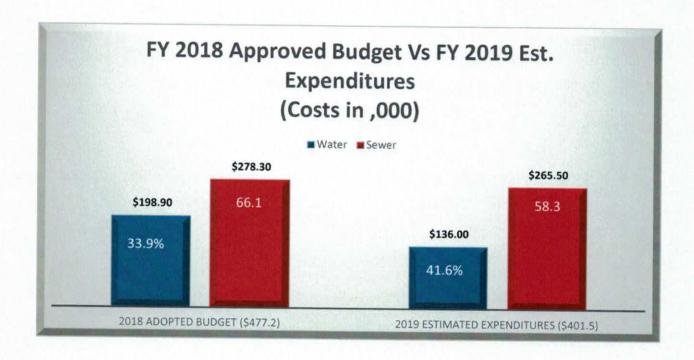
The Washington Suburban Sanitary Commission (WSSC) provides water and wastewater services to over 1.8 million residents over an area of approximately 1,000 square miles and maintains more than 10,000 miles of water and sewer mains. WSSC's Capital Improvements Program (CIP), the subject of this report, provides funding for the ongoing operation of 4 reservoirs, 2 water filtration plants, and 6 wastewater treatment plants.

The summary and information included in this report reflects the Mid-Cycle Update to the Proposed FY 2019 - FY 2024 CIP transmitted by WSSC on February 21, 2018. Staff recommendations are included in Section V of this report.

The FY 2019 - 2024 Capital Improvement Plan includes 70 projects, totaling \$3.6 billion dollars in total project costs expended thru FY 2017, including estimates for FY 2018. The only new WSSC project planned for FY 2019 is located in Prince George's County, Maryland. The proposed \$3.6 billion total CIP budget is \$221 million greater than the Adopted FY 2018 - 2023 CIP. This increase is primarily due to updating the Potomac Water Filtration Plant (WFP) Consent Decree project to reflect the findings from the audit and long-term upgrade report. Also, the updated cost estimate for the Piscataway Bio-Energy project shall be partially offset by a decrease in the Trunk Sewer Reconstruction Program.

A summary listing of WSSC projects is included in <u>Attachment A</u>, Total WSSC CIP (dated 2/21/18).

The six-year program total is approximately \$2.0 billion in expenditures.



The FY 2019 CIP budget includes \$136.0 million in water projects, and \$265.5 million in sewer projects.

A detailed summary of the Proposed CIP for Fiscal Years 2019 - 2024 with emphasis on year one of the six year program (FY 2019) is discussed below.

SUMMARY

A. Expenditures

WSSC's proposed FY 2019 CIP totals \$401.5 million, which represents \$75.7 million less as compared to the approved CIP funding level for FY 2018. This decrease is primarily due to the projected decrease in the Trunk Sewer Reconstruction Program (-\$64M) as the work moves past the peak of construction, and the construction progress projected for the Blue Plains Enhanced Nutrient Removal project (BP ENR) (-\$23M), and the Patuxent Expansion (-\$8M) begins winding down by FY 2019.

The Blue Plains project accounts for \$360 million of the FY 2019 – 2024 Proposed CIP, which is an increase of \$43 million above the Adopted FY 2018 – FY 2023 CIP. The

Blue Plains project accounts for 18% of WSSC's six-year CIP program and 32% of WSSC's sewer projects.

There are eleven (11) projects closing out in FY 2019, including one Information Only project. The total cost of projects closed out is \$180.4 million.

The anticipated in-service dates are as follows:

Project Name	In-Service Dates
Waste Water Fa	ncilities
Broad Creek WWPS Augmentation	FY 2020
Clarksburg WWPS	FY 2021
Septage Discharge Facility Planning	FY 2021
Piscataway WWTP Bio Energy Project	July, 2022
Piscataway WWTP Facility Upgrades	FY 2023
Brandywine Woods WWPS	Developer Dependent
Cabin Branch WWPS	Developer Dependent
Water Facili	
Collington Elevated Water Storage	March, 2018
Patuxent WFP Phase II Expansion	August, 2018
St. Barnabas Elevated Tank Replacement	August, 2018
Shady Grove Standpipe Replacement	January, 2019
Duckett & Brighton Dam Upgrades	April, 2019
Olney Standpipe Replacement	July, 2019
Rocky Gorge Pump Station Upgrade	August, 2019
Clarksburg Elevated Water Storage	FY 2019
Clinton Zone Water Storage Facility	FY 2020
Potomac WFP Submerged Channel Intake	FY 2024

Approximately one-third of the total projects in the FY 2019 CIP budget are designated Development Services Process (DSP) growth projects. This CIP budget includes seven (7) Prince George's County water projects, eight (8) Prince George's County sewer projects and eight (8) Montgomery County water/sewer projects.

B. Sources of Funds

WSSC bonds are the principal capital project funding source. In keeping with policy objectives, the Commission uses several other funding sources especially for growth projects. Those additional sources of funds include:

- Federal and State Grants
- Local Government Contributions
- PAYGO (when budgeted)
- System Development Charges (SDC)
- Contributions/Other

A chart of "funding by source" is included in this report as <u>Attachment B</u>, WSSC Proposed FY 2019-2024 CIP.

C. Funding Growth & the Growth Funding Gap

The portion of CIP needed to accommodate growth is approximately \$153 million (approximately 8% of the expenditures under the six-year program). The major funding sources for this part of the program are System Development Charge (SDC) revenues and payments by Applicants. In FY 2018, the Councils of Prince George's and Montgomery increased the maximum allowable charge by 1.2%, but maintained the current rate of \$203 per fixture unit. In FY 2019, WSSC is recommending the maximum allowable charge be increased by 1.6%, but still maintain the current rate of \$203 per fixture unit.

If growth related expenditures were to exceed the available SDC account balance in any given fiscal year, it is anticipated that WSSC would issue new SDC supported debt to cover this temporary gap rather than increasing the SDC. The FY 2019 CIP budget projects a growth funding gap of \$25.6 million. This projected gap is the difference between the eligible expenditures adjusted for completion and the sum of the various funding sources.

An increase in the SDC rate, at this time, does not appear to be justified to cover a short-term funding gap. WSSC is proposing to issue debt to cover any shortfall that may occur in the next few years and then repay the debt service through future SDC collections, as allowed by State Law. Further, each County may grant \$500,000 of narrowly defined exemptions per year. Unused portions accumulate and are available for future fiscal years. Through June 30, 2017, Prince George's County's unused cumulative SDC exemptions total was \$2.9 million as compared to Montgomery County's balance of \$6.2 million.

A financial listing of "SDC eligible projects" is included in this report as <u>Attachment C</u>, WSSC Proposed FY 2019-2024 CIP SDC Eligible Projects Summary.

II. NEW PROJECTS

The FY 2019 CIP budget includes one (1) new sewer project located in Prince George's County, **Parkway North Substation Replacement**. The total estimated cost is \$5 million of which \$2.65 million is planned to be expensed in FY 2019.

A financial listing of this new project is attached to this report in <u>Attachment D</u>, Prince George's County Sewer Projects – New Project Listing.

III. BI-COUNTY PROJECTS

A. Water

- Potomac Water Filtration Plant (WFP) Projects. These 6 projects are all operational improvements to the Potomac WFP and are funded with WSSC bonds. The revised proposed total cost is projected to be \$335 million cumulatively, which is an increase of \$120 million (55.8%) over the Adopted FY 2018 budget. The increase in cost is due to several factors:
 - Performance issues related to additional concrete and equipment repair work in the basins.
 - Replacement of all thirty-two (32) filter under drains.
 - The Potomac WFP Consent Decree was increased significantly based on estimates from the December 2016 Audit and Long Term Upgrade Report.

Additionally, the following projects are system improvements and 100% funded with WSSC bonds:

- Duckett & Brighton Dam Upgrades. This project was included per request of the Maryland Department of the Environment (MDE) to meet current dam safety standards, including the maximum probable flood criteria and maximum credible earthquake loading. The FY 2019 total cost decreased by approximately \$4.7 million based on the actual bids for the recently awarded Brighton Dam Upgrade construction project under the FY 2018 Approved CIP Budget.
- Large Diameter Water Pipe Rehabilitation Program. This project will rehabilitate or replace large diameter water transmission mains and valves. Overall program costs were increased for inflation and to reflect higher construction unit costs for pipe replacement due to

the current requirements to fill or remove abandoned pipes. The FY 2019 total costs increased by approximately \$19.7 million over the FY 2018 Approved CIP Budget.

- Patuxent Water Filtration Plant Phase II Expansion. This project provides for the addition of a 6th treatment train, and new electrical substation, residuals handling facility, ultra-violet (UV) disinfection facilities, as well as upgrades to existing yard piping, chemical facilities and feed systems; and a new relief sewer to accommodate the residual facility. The FY 2019 total costs decreased by approximately \$315 thousand under the FY 2018 Approved CIP Budget.
- Patuxent Water Filtration Plant Projects Raw Water Pipeline. This project provides for the construction of approximately 2.5 miles of 48-inch diameter raw water pipeline from the Rocky Gorge pumping station to the Patuxent Water Filtration Plant; cleaning of the existing water lines; and, the replacement of valves. These improvements will give the plant a firm capacity of 72 million gallons per day (MGD), with an emergency capacity of 110 MGD. The FY 2019 total costs increased by approximately \$731 thousand over the FY 2018 Approved CIP Budget. Currently, the Rocky Gorge valve replacement and the cleaning of the existing raw water pipelines are 100% complete. The new raw water pipeline is in design. The expenditure and scheduled estimates increased due to design and permitting constraints.
- Rocky Gorge Pump Station. This project provides the needed modifications and expansion to allow the pumping station to deliver up to 110 MGD of raw water to the Patuxent WFP. The FY 2019 total costs increased by approximately \$385 thousand over the FY 2018 Approved CIP Budget.
- Land & Rights of Way Acquisition. This project is a consolidated estimate of land and right of way purchases for previously approved capital projects. The FY 2019 total costs decreased by approximately \$834 thousand under the FY 2018 Approved CIP Budget.

A list of **Bi-County water projects** is attached to this report in <u>Attachment E, Financial Summary</u>, Bi-County Water Projects.

B. Sewer

- Piscataway Waste Water Treatment Plant (WWTP) Bio-Energy Project. A comprehensive long-term bio-solids management project to construct new centralized anaerobic digestion, biomass and combined heat & power generation system facilities to treat all bio-solids from Piscataway, Western Branch, Parkway, Seneca, and Damascus wastewater treatment plants. This system is funded by both WSSC Bonds at \$244.6 million and State & Federal Aid at \$4.1 million. The FY 2019 total costs increased by approximately \$87 million over the FY 2018 Approved CIP Budget, primarily to reflect early design level estimates and the inclusion of the FOG (fats, oils and grease) facility and utility water upgrades from the Piscataway WWTP and bio-solids transported from the Western Branch WWTP. The economic benefits highlights are as follows:
 - Recovery of more than \$1.5 million of renewable energy costs per year
 - Reduce bio solids disposals by approximately \$1.7 million per year
 - Reduce chemical costs by approximately \$500,000 per year
 - Hedge against rising costs of power fuel and chemicals
 - Provide a net payback between 20 30 years.
- Blue Plains Wastewater Treatment Plant Projects. This group of 5 projects represents one of the largest group of expenditures in the proposed CIP at 16% of the FY 2019 Program expenditures or 18% of the Six-Year Program. This provides for WSSC's share of funding for the upgrade, expansion and enhancement of wastewater treatment and solids handling at the Regional Blue Plains WWTP located in Washington, DC. These projects are funded by WSSC Bonds at approximately \$ 58.0 million, City of Rockville at \$ 3.0 million and State Aid at \$4.0 million. The FY 2019 total costs increased by approximately \$107.8 million (13.7%) over the FY 2018 Approved CIP Budget.
 - Note: District of Columbia Water and Sewer Authority (DCWASA) staff proposed rate in future years may challenge the WSSC's ability to stay within County established spending affordability limits.
- Septage Discharge Facility. This project is 100% WSSC bond funded and provides for the planning, design and construction of a new septage and FOG discharge facility at the abandoned Rock Creek WWTP as well as a new septage discharge facility and

Anacostia and Piscataway WWTP. The estimated cost of construction of the three (3) facilities has increased significantly based upon the final submitted design. The FY 2019 total costs increased by approximately \$16 million over the FY 2018 Approved CIP Budget.

- Trunk Sewer Reconstruction Program. This project is 100% WSSC bond funded and will rehabilitate large diameter sewer mains including the associated manholes in environmentally sensitive areas. All trunk sewer inspections, sewer system evaluation survey work and other related collection system evaluations are complete. Due to the delay in permits, right-of-way permissions, and the availability of subcontractors. The trunk sewer reconstruction work has been delayed. The Consent Decree deadline for this project has been extended to FY 2022. The FY 2019 total costs decreased by approximately \$ 64.4 million under the FY 2018 Approved CIP Budget.
- Land & Rights of Way Acquisition. This project provides for a consolidated estimate of funding for the acquisition of land and rights-of-ways for sewer projects. This project is funded by WSSC Bonds at approximately \$80 thousand and Contribution/Other at \$15 thousand.

A financial list of Bi-County water projects is attached to this report in <u>Attachment F</u>, Financial Summary, Bi-County Sewer Projects.

IV. PRINCE GEORGE'S COUNTY PROJECTS

A. Water

There are 21 Prince George's County water projects at a cost of \$49.4 million in FY 2019.

- Prince George's County HG415 Zone Water Main. This project is 100% WSSC bond funded and provides for 1,500 feet of 24-inch diameter water main construction and new isolation valves, pressure relief valves with flow control in order to enhance system reliability by improving the flexibility of the delivery system. The FY 2019 total costs increased by approximately \$200 thousand over the FY 2018 Approved CIP Budget due to more complex design requirements.
- Old Branch Avenue Water Main. This project is 50% WSSC bond funded and 50% SDC funded. It provides for the planning, design

and construction of approximately 16,000 feet of 30-inch diameter water main and a new flow control valve. This project will provide the needed redundancy to a large area of Prince George's County. The FY 2019 total costs increased by approximately \$700 thousand over the FY 2018 Approved CIP Budget due to the engineer's final design. Five properties have been acquired.

- Water Transmission Improvements 385 Pressure Zone. This project provides for 24,000 feet of 24-inch diameter new water transmission main that will improve system reliability through the 385 and 345 pressure zones. The existing transmission mains have been stressed by recent development in southern Prince George's County. The FY 2019 total costs decreased by approximately \$ 7.0 million under the FY 2018 Approved CIP Budget based upon the final design estimates.
- Branch Avenue Water Transmission Improvements. This project provides for the planning, design and construction of approximately 21,800 feet of 42-inch, and 5,400 feet of 30-inch diameter water transmission main and flow control valve along Branch Avenue in the Clinton area. The new water main will serve as a primary feed for the new Brandywine tank. The FY 2019 total costs increase by approximately \$ 6.3 million over the FY 2018 Approved CIP Budget due to the re-design of the Phase IV alignment.
- Marlboro Zone Reinforcement Main. This project provides for the planning, design and construction of approximately 4,000 feet of 16-inch diameter transmission main and flow control valve along Old Marlboro Pike in the Clinton area. This new water main will provide system reliability and redundancy by connecting the 365 B and 280A pressure zones. The FY 2019 total costs are approximately the same as the FY 2018 Approved CIP Budget.
- Clinton Zone Water Storage Facility Implementation. This project provides for the design and construction of approximately 4.0 million gallons (MG) of water storage to serve the Clinton Pressure Zone. WSSC plans to construct a 2.0 MG water tank in the Brandywine area by FY 2020. A future tank will be constructed in Rosaryville area by FY 2026 to meet the demands. The FY 2019 total costs are approximately the same as the FY 2018 Approved CIP Budget. This system is funded through 100% SDC.
- St. Barnabas Elevated Tank Replacement. This project is 50% WSSC bond funded and 50% SDC funded. This project provides for the design and construction of approximately 2.5 million gallons

- (MG) of water storage to serve Prince George's High Pressure Zone HG450A and also includes the demolition of the existing St. Barnabas elevated water storage tank. The FY 2019 total costs decrease by approximately \$600 thousand under the FY 2018 Approved CIP Budget.
- Ritchie Marlboro Road Transmission Main & PRV. This project provides for the planning, design and construction of approximately 13,100 feet of 24 inch diameter water transmission main and pressure reducing valve to serve the Westphalia area. The FY 2019 total costs decrease by approximately \$5.9 million under the FY 2018 Approved CIP Budget based upon actual bids. This system is funded through 100% SDC.
- Prince George's County 450A Zone Water Main. This project provides for the planning, design and construction of approximately 3.8 miles of new 48-inch redundant water transmission main for the 450A zone in Prince Georges County. The FY 2019 total costs increase by approximately \$44 million over the FY 2018 Approved CIP Budget based upon the final selected alignment and preliminary design estimates. This system is funded through 100% WSSC bond funded.
- Hillmeade Road Water Main. This project provides for the planning, design and construction of 7,300 feet of 24-inch water main in Hillmeade at Daisy Lane. The FY 2019 total costs are relatively the same as the FY 2018 Approved CIP Budget. This system is funded through 100% SDC.
- John Hanson Highway Water Main, Part 1. This project provides for the planning, design and construction of 9,300 feet of 36-inch water main construction project that supports 100% growth. The project provides service and redundancy to the growing area of Bowie and to the low pressure area north of Route 50. The FY 2019 total costs decreased by approximately \$530 thousand under the FY 2018 Approved CIP Budget. This system is funded through 100% SDC.
- Oak Grove/Leeland Roads Water Main, part 2. This project provides for the planning, design and construction of 16,805 feet of 24-inch and 1,240 feet of 16-inch water main in the Upper Marlboro. Area. The FY 2019 total costs increase by approximately \$224 thousand over the FY 2018 Approved CIP Budget based upon the actual bid. This project is 50% WSSC bond funded and 50% SDC funded.

- South Potomac Supply Improvement Phase 2. Phase 2 of this project provides for the design and construction of 4.4 miles of 42-inch ductile iron pipe and a new flow control valve vault to replace 3.5 miles of 42-inch PCCP water transmission main. Phase 1 has been completed. The FY 2019 total costs increase by approximately \$1.3 million over the FY 2018 Approved CIP Budget due to the addition of a new 10-inch diameter water main at Tucker Road and an additional valve as well as an additional 500 feet of 42-inch PCCP pipe replacement. This project is 66% WSSC bond funded and 34% SDC funded.
- Collington Elevated Water Storage Facility. This project provides site selection, design and construction of up to 4 million gallons of elevated storage to serve the intermediate zone. It also includes modifications at the existing Central Avenue Water Pumping Station to add an additional pump and upgrade the existing pump in order to utilize the new Collington tanks and provide redundancy in the affected zones. The FY 2019 total costs decreased by approximately \$1.1 million under the FY 2018 Approved CIP Budget. This project is 50% WSSC bond funded and 50% SDC funded.
- Development Services Process (DSP) Projects. Included in the Prince George's County water section are seven (7) projects which serve new development areas. These projects, listed below and in attachment F are funded and constructed by the Developers.

Project Name	Phase	% Complete
Villages of Timothy -Part I	Planning	100%
Villages of Timothy - Part II	Planning	100%
Marlton Section 18 – Water main	Design	20%
Old Marlboro Pike Water Main	Construction	80%
Smith Home Farms Water Main	Construction	75%
Westphalia Town Center Water Main	Construction	40%
Konterra Town Center East Water Main	Construction	30%

A financial list of Prince George's County water projects is attached to this report in Attachment G, Financial Summary – PGC Water Projects.

B. Sewer

There are 14 Prince George's County sewer projects at a total cost of \$426.8 million.

- Broad Creek Waste Water Pumping Station (WWPS) Augmentation. This project supports 83% growth to eliminate overflows at the Broad Creek Wastewater Pumping Station, modifications will be made to the pumping station and the force main. Pumping station modifications construction phase started in January 2017 with expected completion in summer 2020. The FY 2019 total costs increase by approximately \$6.5 million over the FY 2018 Approved CIP Budget due to inflation and to address issues with yard piping and vault construction due to potentially high ground water at the site. This project is 17% WSSC bond funded and 83% SDC funded.
- Western Branch Facility Upgrade which provides for improvements required to rehabilitate aging systems and to meet the terms of its NPDES discharge permit; The FY 2019 total costs increase by approximately \$2.5 million over the FY 2018 Approved CIP Budget based on the updated construction supervision cost estimate due to construction schedule delays. This system upgrade is 100% WSSC bond funded.
- Mattawoman WWTP Upgrades. The costs represent WSSC's share of capital projects to upgrade and repair Charles County's Mattawoman Inceptor Wastewater Treatment Plant. The FY 2019 total costs increase by approximately \$3.3 million over the FY 2018 Approved CIP Budget to include a new project to add primary clarifiers, demolition costs, evaluation of the pump station, and repairs to the clarifier and thickener systems. This system upgrade is 100% WSSC bond funded.
- Piscataway WWTP Facility Upgrades. This project is a 100% system improvement and provides improvements required to prevent plant overflows or permit violations which can occur during significant rainfalls. The FY 2019 total costs increase by approximately \$25 million over the FY 2018 Approved CIP Budget due to the required electrical upgrades, the raw wastewater pumping station and secondary clarifiers. Note: the costs associated with the plant utility water upgrade has been moved from this project to the Piscataway WWTP Bio-Energy Project.
- Fort Washington Forest No.1 WWPS Augmentation. This project provides for planning, design and construction of the rehabilitation

work required for the Fort Washington Forest No. 1 WWPS and replace a 900-foot segment of a failing 4-inch diameter force main with an 8-inch diameter main. In addition, 2,700 feet of downstream 8-inch diameter gravity sewer will be upsized to 12-inch diameter to accommodate the additional flow. The rehabilitation will more than double the pumping station's capacity. The existing Fort Washington Estates WWPS will be rehabilitated and will upsize the force main with a new 8-inch diameter gravity sewer. The FY 2019 total costs decreased by approximately \$112 thousand under the FY 2018 Approved CIP Budget. This system upgrade is 100% WSSC bond funded.

Development Services Process (DSP) Projects. Also included in the Prince George's County sewer section are eight (8) projects which serve new development. These projects, listed in attachment H, are funded and constructed by the Developer.

Project Name	Phase	% Complete
Brandywine Woods Wastewater Pumping Station	Planning	100%
Brandywine Woods WWPS Force Mains	Planning	100%
Landover Mall Redevelopment	Planning	20%
Karrington Subdivision Sewer	Design	100%
Pleasant Valley Sewer Main, Part I	Design	80%
Pleasant Valley Sewer Main, Part 2	Design	60%
Konterra Town Center East Sewer	Construction	40%
Westphalia Town Center Sewer Main	Construction	40%

A financial list of Prince George's County sewer projects is attached to this report in <u>Attachment H</u>, Financial Summary, PGC Sewer Projects.

V. RECOMMENDATIONS

- Concur with WSSC to maintain SDC fees at current levels but increase the maximum ceiling on this charge as is consistent with State Law.
- Concur with the addition of one new sewer project in Prince George's County.
- Concur with WSSC on all other FY 2019 2024 CIP projects as reflected in the Mid-Cycle Update transmitted on February 21, 2018.

VI. ATTACHMENTS

- A. Total WSSC CIP (dated 2/21/18)
- B. WSSC Proposed FYS 2019-24 CIP
- C. WSSC Proposed FY 2019-2024 CIP, SDC Eligible Projects Summary
- D. Prince George's County Sewer Projects, New Project Listing.
- E. Financial Summary, Bi-County Water Projects
- F. Financial Summary, Bi-County Sewer Projects
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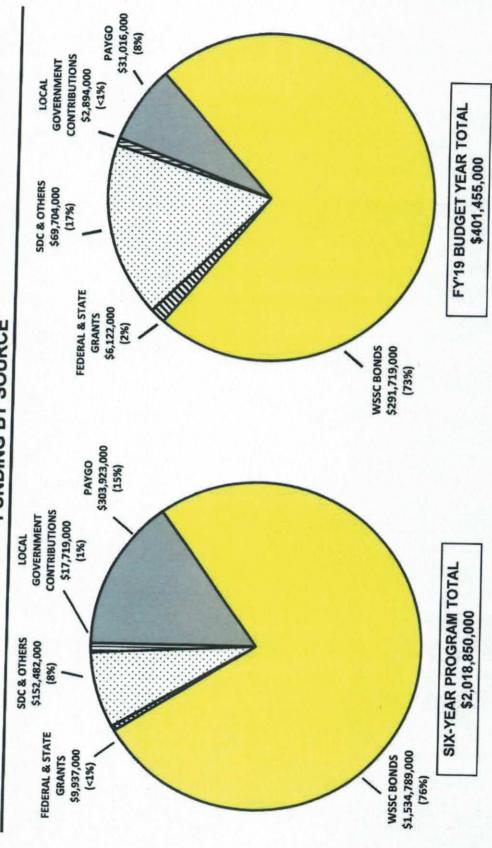
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TOTAL WSSC CIP			(ALL FI	(ALL FIGURES IN THOUSANDS)	OUSANDS)							
PROJECT	EST.	EXPEND	EST.	TOTAL			XPENDITUR	EXPENDITURE SCHEDULE			DEVOSES	
	COST	17	EXPEND 18	SIX	18 1	YR 2	YR3	YR 4	YR 5	YR6	SIX	PAGE
Montgomery County Water Projects	52,122	15,226	20,692	18,204	13,869	1,674	199	0	0	5	TEAKS	NOW .
Prince George's County Water Projects	366,956	74,898	54,690	214,639	49,408	45,971	41,452	27,196	26,914	23.698	22 720	
Bi-County Water Projects	1,067,152	275,599	98,030	664,123	72,690	90,219	134,141	138,661	122,061	106.351	29 400	
TOTAL WATER PROJECTS	1,486,230	365,723	173,412	894,966	135,967	137,864	176,254	165,857	148,975	130,049	52.129	
Montgomery County Sewerage Projects	41,380	12,615	2,951	25,814	12,537	10,317	2,960	0	0	C		
Prince George's County Sewerage Projects	426,845	212,888	32,821	180,558	60,397	52,596	26,871	26,216	13,549	927	SRO	
Bi-County Sewerage Projects	1,615,832	352,145	227,111	917,514	192,554	214,120	209,121	131,962	94,329	75.428	119.062	4
TOTAL SEWERAGE PROJECTS	2,084,057	577,648	262,883	1,123,884	265,488	277,033	238,952	158,178	107,878	76,355	119,642	
TOTAL WSSC PROGRAM	3,570,287	943,371	436,295	2,018,850	401,455	414,897	415,206	324,035	256,853	206,404	171,771	
Total Information Only Projects	1,574,989	29,853	223,492	1,320,281	226,136	232,051	229,128	208,061	210,798	214,107	1,363	7-1

WSSC PROPOSED FYS 2019-24 CIP

FUNDING BY SOURCE



WASHINGTON SUBURBAN SANITARY COMMISSION PROPOSED FYS 2019 - 2024 CIP SDC ELIGIBLE PROJECTS SUMMARY (In Thousands)

PROGRAM NAME	COST	2017	P.Y	FVEADE	7	FY	F	F	FY	FY	BEYOND
			200	OTEMES	6107	. 2020	2021	2022	2023	2024	6 VEADS
MONTGOMERY COUNTY WATER PROJECTS											O IEAN
Total Project Costs *	613 350	007 700									
SDC Eligible Costs	613,339	24,120	\$5,662	\$3,577	\$2,604	\$554	\$419	05	S	4	
	913,359	\$4,120	\$5,662	\$3,577	\$2,604	\$554	\$419	80	8 8	200	2 3
BI-COUNTY WATER PROJECTS									3	9	04
Total Project Costs *	200 00	;									
SDC Flighte Crete	\$3,685	\$0	2777	\$2,918	\$1,300	\$1.570	818	640	0.29		
	\$614	0\$	\$405	\$209	\$209	90	9	0.9	910	\$10	80
PRINCE GEORGE'S COUNTY MATERIAL						3	2	00	2	20	000
Total Burner & COUNTY WATER PROJECTS											
Total Project Costs	\$257,156	\$55,801	\$51.494	\$145,024	643 611	920 000					
SDC Eligible Costs	\$188,282	\$39.614	SAA ORG	600 000	110,544	336,638	\$27,830	\$13,574	\$13,292	\$10,076	\$4.840
			0000	750'066	\$38,769	\$29,998	\$16,480	\$5,084	\$4,802	\$3,709	\$4.840
TOTAL WATER PROJECT COSTS	\$274,210	\$59,921	\$57,933	\$151.516	\$47 545	630 763					
IOTAL WATER SDC ELIGIBLE COSTS	\$202,255	\$43.734	\$54 DE2	6400 000	200	707'004	\$78,267	\$13,584	\$13,302	\$10,086	\$4.840
			Continue.	070,7014	280,194	\$30,552	\$16,899	\$5,084	\$4,802	\$3,709	\$4,840
MONTGOMERY COUNTY SEWERAGE PROJECTS											
Total Project Costs *	830 334	64 550	-								
SDC Eligible Costs	\$30,324	64 550	\$2,901	\$25,814	\$12,537	\$10,317	\$2,960	0\$	\$0	05	9
	430,004	800°1¢	\$2,951	\$25,814	\$12,537	\$10,317	\$2,960	\$0	\$0	8	8 5
BI-COUNTY SEWERAGE PROJECTS										1	3
Total Project Costs *	CAON	8	-								
SDC Eligible Costs	Det.	00	\$320	\$170	\$95	\$15	\$15	\$:5	575	615	
	7076	2	\$180	\$82	247	2.5	23	\$7	22	SY SY	9 05
PRINCE GEORGE'S COUNTY SEWERAGE PROJECTS											
Total Project Costs *	\$195.593	S148 857	640 075								
SDC Eligible Costs	6164 570	000000	0/6'010	\$21,161	\$18,158	\$8,223	\$133	541	\$683	\$523	4
	0/0'+01+	9124,518	\$16,030	\$24,022	\$15,570	\$7,072	\$133	24	\$683	\$523	2
TOTAL SEWERAGE PROJECT COSTS	\$226,407	\$150,416	\$22,246	\$53.745	530 790	£40 £2E	100				3
IOIAL SEWERAGE SDC ELIGIBLE COSTS	\$195,156	\$126,077	\$19 161	640 040	2000	2000	99' 100	90\$	869\$	\$538	20
			10.00	910,010	\$26,154	\$17,396	\$3,100	\$48	069\$	\$530	80
TOTAL PROJECT COSTS	\$500,617	\$210,337	\$80,179	\$205,261	\$78,305	\$57,317	\$31.375	\$13.640	\$14 000	640 604	
ייי פס דרומוקדר פספוס	\$397,411	\$169.811	\$70.214	\$159 54E	200 776	617.010			200,414	470,014	24,840

* Total Project Costs - This is the total cost for all projects needed to support growth. SDC Eligible Costs - That portion of Total Project Costs specifically for growth. (i.e. if a project supports 50% Growth and 50% System improvements, SDC Eligible Costs refer only to the 50% Growth portion).

Prince George's County Sewer Projects New Projects Listing (costs in thousands)

Budget Year Page	Cost	\$2.650	5	\$2,650
Total	Cost	\$5,003		\$5,003
Project Name		Parkway North Substation Replacement		IOIALS
Agency	0 11 00	07/1-0		

DATE: October 1, 2017 REVISED: February 21, 2018

FINANCIAL SUMMARY
(ALL FIGURES IN THOUSANDS)

W-73.19 Potomac W W-73.21 Potomac W W-73.22 Potomac W W-73.30 Potomac W W-73.33 Potomac W W-139.02 Duckett & B	TANKE I	EST.	EXPEND	EST.	TOTAL		0	PENDITURE	EXPENDITURE SCHEDULE			and the second	
3.19 Potomac W 3.21 Potomac W 3.22 Potomac W 3.30 Potomac W 3.32 Potomac W 3.33 Potomac W 3.33 Potomac W 3.30 Luckett & B	rnos va	COST	THRU 17	EXPEND 18	SIX	YR 1	YR2	YR3	YR4	YR 5	YR6	SIX	PAGE
3.21 Potomac W 3.32 Potomac W 3.32 Potomac W 3.32 Potomac W 3.33 Potomac W 9.02 Duckett & B 1.01 Large Diam	Potomac WFP Outdoor Substation No. 2 Replacement	15,052	14,450	580	22	33		51	22	- 1	24	YEARS	NOM
Potomac W 32 Potomac W 33 Potomac W 33 Potomac W 9.02 Duckett & B	Potomac WFP Corrosion Mitigation	17.280	15 800			1	•	0	0	0	0	0	3-3
30 Potomac W 32 Potomac W 33 Potomac W 9.02 Duckett & B	Potomac WFP Pre-Fitter Chlorination & Air Course		000'01	010,1	65	92	0	0	0	0	0	0	S.
33 Potomac W 9.02 Duckett & B 1.01 Large Diam	ED School of the County of the	24,961	7,751	4,786	12,424	7,883	4,518	23	0	0	0	0	3.5
.32 Potomac W .33 Potomac W 9.02 Duckett & B 1.01 Large Diam	Contract viving Submerged Channel Intake	83,104	4,322	525	78,257	70	3,917	24,255	24,150	19,950	5.915	0	e e
9.02 Duckett & B	Potomac WFP Main Zone Pipeline	37,470	950	550	35,970	1,100	099	19.030	15 180	c			,
9.02 Duckett & B	Potomac WFP Consent Decree Program	157,480	1,500	5,430	121,150	9,850	10.500	19 950	27 300	0		0	3-7
1.01 Large Diam	W-139.02 Duckett & Brighton Dam Upgrades	30,754	14 066	8 147	9 11 10	-		200	77,300	066,92	25,200	29,400	88
	W-161.01 Large Diameter Water Pipe & Large Valve Rehabilitation Drooms	405 500	,		oto's	100'/	(45	0	0	0	0	0	3-9
OS Datives M.	W-772 05 Dativoot WED Discount of the Control of th	430,034	0	53,208	382,386	40,661	57,862	62,865	72,021	73,751	75,226	0	3-10
A HISTORY OF THE LAND	Triase II Expansion	63,889	56,594	6,229	1,078	1,076	0	0	0	c	-		
W-172.07 Patuxent Raw Water Pipeline	w Water Pipeline	33,663	12,705	4.202	18,756	378	8 378	000)	5		m m
.08 Rocky Gorge	W-172.08 Rocky Gorge Pump Station Upgrade	22 584	7 037	1007			5	000'0	0	0	0	0	3-14
.00 Land & Righ	W-202.00 Land & Rights-of May Association of Co.		100'	7/8/01	4,003	2,484	2,069	0	0	0	0	0	3-15
	cardination - Bi-County Water	3,695	0	111	2,918	1,300	1,570	18	10	10	OL.	-	0
Projects Per	Projects Pending Close-Out	141,636	140,624	1,012	0	0	0	0	0	0	0		3-17
	TOTALS	1,067,152	275,599	98,030	664,123	72.690	90 219	134 141	900	100			

FINANCIAL SUMMARY (ALL FIGURES IN THOUSANDS)

DATE: October 1, 2017 REVISED: February 21, 2018

BI-COUNTY SEWER PROJECTS

AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL		Ш	XPENDITURE	EXPENDITURE SCHEDULE			CHONGO	
8		COST	17	EXPEND 18	SIX	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	SIX	PAGE
9-22.00	Blue Plains WWTP: Liquid Train Projects, Part 2	192,823	0	10,500	122,401	17,471	21,282	21,635	25,189	20,068	16,756	58,922	A-3
S-22.07	Blue Plains WWTP: Biosolids Management, Part 2	40,688	0	6,355	33,623	7,890	10,274	8,660	4,964	1,106	729	710	4-4
	Blue Plains WVTP: Plant-wide Projects	110,265	0	6,616	82,112	8,206	9,815	17,829	18,969	16,660	10,633	21,537	4-5
	Blue Plains WMTP: Enhanced Nutrient Removal	404,480	340,782	30,335	13,779	8,345	1,563	869	758	1,159	1,085	19.584	4-6
8-22.11	Blue Plains: Pipelines & Appurtenances	147,842	0	22,173	108,360	23,393	14,408	22,805	17,104	16,064	14,586	17,309	4-7
.02	S-103.02 Piscataway WWTP Bio-Energy Project	248,677	6,871	8,873	232,933	40,310	76,251	73,553	34,566	8,253	0	0	80-4
80	S-170.08 Septage Discharge Facility Planning & Implementation	30,484	4,492	382	25,620	5,229	15,136	5,255	0	0	0	0	4-10
60	S-170.09 Trunk Sewer Reconstruction Program	440,073	0	141,557	298,516	81,615	65,376	58,500	30,397	31,004	31,624	0	4-11
00	S-203.00 Land & Rights-Of-Way Acquisition - Bi-County Sewer	490	0	320	170	98	\$	15	15	5	15	0	4-12
	TOTALS	1,615,832	352,145	227,111	917,514	192,554	214,120	209,121	131,962	94,329	75,428	119,062	

FINANCIAL SUMMARY (ALL FIGURES IN THOUSANDS)

Photoe Geograf County HGAIS Zone Valuer Main	NUMBER	R PROJECT	EST.	EXPEND	EST.	TOTAL			EXPENDITURE SCHEDULE	SCHEDULE			Devenie	
Half Signer (2,812) (1,203) (6,820) (6			COST	THRU 17	EXPEND 18	SIX	YR 1		YR3	YR4		YR6	SIX	PDF
### ZAN	W-12.02	Prince George's County HG415 Zone Water Main	3,644	418			8	20	21	22	23	24	YEARS	NOM
Femiliary 15,325 1,203 1,3225 8,830 1,3220 6,620 4,400 2,200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W-34.02	Old Branch Avenue Water Main	24 240		3		2,017	184	0	0	0	0	0	5-2
1,273 8,280 13,225 8,850 13,220 4,400 2,200 0 0 0 0 0 0 0 0 0	W-34.03	Water Transmission Improvements 3858 Pressure Zone	049'69	2,812	198	2	6,820	8,690		0	0	0	0	6-3
Herits B01,377 8,226 13,825 38,257 14,751 17,741 5,765 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20	District American Control of the Con	207'07	1,203	8,830		6,620	4,400		0	0	0	0	2
A 4,226 3.80 6.016 4.22 6.588 5.983 6.05 6 6.0 6 6.0 6.0 8.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	5 6	oranci Avenue Water Transmission Improvements	60,377	8,295	13,825		14,751	17,741	5,765	0	C			, ,
### ### ### ### ### ### ### ### ### ##	9	Martboro Zone Reinforcement Main	4,226	380	810	3,036	3,036	0	0	0				
10,784 4,346 6,016 472 1,780 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	Clinton Zone Water Storage Facility Implementation	15,527	2,087	2,002	6,598	5,993	609	0	0	0	, ,	4 840	
2,8603 2,8603 801 2,8603 801 1,552 656 43 833 313 367 2,8603 801 1,552 656 43 833 313 367 414 412 406 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	St. Barnabas Elevated Tank Replacement	10,784	4,346	6,016	422	422	0	0	O	-			, ,
2,803 1,532 2,603 2,604 1,509 2,642 1,780 2,14,39 1,780 2,14,39 2,14,43 2	0.5	Ritchie Marlboro Road Transmission & PRV	6,867	2,002	3,105	1,760	1,780	0	0	0		9 6		0 1
1,532 556 43 883 313 367 253 0 0 0 1,509 821 64,321 684 9,149 13,622 13,622 13,622 13,622 17,889 1,509 43 651 64,321 684 9,149 13,622 13,622 13,622 17,889 5,438 1,002 1,750 2,676 0	03	Smith Home Farms Water Main	2,603	801	570	1,232	414	412	406	C	0 0	9 6		0
1,581 43 654 9,149 13,622 13,622 13,622 13,622 17,889 1,581 43 651 887 61 350 194 282 13,622 13,622 17,889 5,438 1,002 1,780 2,651 406 429 <	8	Westphalia Town Center Water Main	1,532	556	43	933	313	367	253		, ,	•		å
Venue 2,581 43 651 887 61 350 194 282 429 </td <td>02</td> <td>Prince George's County 450A Zone Water Main</td> <td>84,540</td> <td>1,509</td> <td>821</td> <td>64,321</td> <td>684</td> <td>9,149</td> <td>13.622</td> <td>13 622</td> <td>13 633</td> <td>0 00</td> <td>2</td> <td>'n i</td>	02	Prince George's County 450A Zone Water Main	84,540	1,509	821	64,321	684	9,149	13.622	13 622	13 633	0 00	2	'n i
Si,438 1,002 1,780 2,676 406 429 <t< td=""><td>5</td><td>Konterra Town Center East Water Main</td><td>1,581</td><td>43</td><td>651</td><td>887</td><td>61</td><td>350</td><td>104</td><td>000</td><td>2,000</td><td>13,622</td><td>17,869</td><td>4</td></t<>	5	Konterra Town Center East Water Main	1,581	43	651	887	61	350	104	000	2,000	13,622	17,869	4
5,438 1,002 1,780 2,676 0	10.0		2,581	56	*	0 664			5	707				5-13
13,870 6,078 7,282 610 610 0	.05		5.438	1 000	7	A. (100)	400	429	429	429	429	429		5-14
1,089 54 540 475 475 0 <t< td=""><td>10.</td><td></td><td>2000</td><td>Zon'i</td><td>00/1</td><td>2,676</td><td>2,676</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5-15</td></t<>	10.		2000	Zon'i	00/1	2,676	2,676	0	0	0	0	0	0	5-15
1,066 54 540 475 475 0 <t< td=""><td>14</td><td></td><td>13,470</td><td>8/0/9</td><td>7,282</td><td>610</td><td>610</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5-1</td></t<>	14		13,470	8/0/9	7,282	610	610	0	0	0	0	0	0	5-1
337 18 170 149 149 0	ų		1,069	54	240	475	475	0	0	0	0	0	0	40
1,269 1,269 118 388 202 186 0	2	vinages of Timothy Water Main, Part 2	337	18	170	148	149	0	0	0	0	C		u
14,668 9,642 4,796 230 230 0	14		1,755	1,269	118	368	202	188		•		•		b
54,632 30 1,313 53,289 1,575 3,478 12,863 12,863 12,863 9,647 15,942 15,534 274 134 0	20		14,668	9,642	4 796	230	000	3 6		•	0	0	0	5-1
15,634 274 134 0 12,863 12,863 12,863 12,863 9,647 17,380 16,790 600 0<	.03	South Potomac Supply Improvement, Phase 2	54,632	30	1.313	K4 780	1 575	9	0	0	0	0	0	5-20
17,350 16,790 600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00	Collington Elevated Water Storage Facility	15 942	16 634		1	0/0'1	3,478	12,863	12,863	12,863	9,647		5-21
386,858 74,698 54,690 214,639 49,408 45,971 41,452 27,196 26,914 23,698 22,720		Projects Pending Close-Out		200	617	100	134	0	0	0	0	0	0	5-22
386,958 74,698 54,690 214,839 49,408 45,971 41,452 27,196 26,914 23,698			17,390	16,790	009	0	0	0	0	0	0	0	0	5-23
		TOTAL PRINCE GEORGE'S COUNTY WATER PROJECTS	366,958	74,898	54,690	214,639	49,408	45,971	41,452	27,196	26,914	23,698	22,729	

FINANCIAL SUMMARY (ALL FIGURES IN THOUSANDS)

PRINCE GEORGE'S COUNTY SEWER PROJECTS

Fig. 20	AGENCY	PROJECT	EST.	EXPEND	EST.	TOTAL		ш	EXPENDITURE SCHEDULE	SCHEDULE			BEVOND	au o
Montationals Town Center Saver Main 207 460 188 174 47 12 6 </th <th></th> <th></th> <th>COST</th> <th>THRU 17</th> <th>EXPEND 18</th> <th>SIX</th> <th>7R.1</th> <th></th> <th>YR3</th> <th>YR4</th> <th></th> <th>YR6</th> <th>SIX</th> <th>PAGE</th>			COST	THRU 17	EXPEND 18	SIX	7R.1		YR3	YR4		YR6	SIX	PAGE
Notitional Countre East Sower 7,241 5,186 0 2,022 513 385 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-27.08	Westphalia Town Center Sewer Main	850	207	460		124			1		67		S
Broad Creek WWPS Augmentation 182,326 2,180 15,226 6,788 0,788	-28.18	Konterra Town Center East Sewer	7,211	5,189		2,022	513	385	0	0	642			
Western Branch Facility Upgrade S6,419 50,806 2,128 3,386 3,160 236 0	-43.02	Broad Creek WWPS Augmentation	182,490	143,172	17,325	21,993	15,225	892'9	0	0	0		0	6-5
Landover Mall Redevelopment 1,306 24 98 1,482 618 397 44 41	-57.92	Western Branch Facility Upgrade	56,419	50,905		3,386	3,150	236	0	0	0	0	0	9-9
Brandywine Woods Wo	-68.01	Landover Mali Redevelopment	1,305	24	86	1,182	618	397	4	4	41	41	0	6-7
Branchwire Woods WWPS Force Main 123 14 67 67 0	-75.19	Brandywine Woods Wastewater Pumping Station	315	7	111	131	29	20	0	0	0	0	0	8-9
Mattawoman WWTP Upgrades 18,448 0 5,911 12,958 4,048 2,783 1,928 1,897 1,987 404 580 6 <td>-75.20</td> <td>Brandywine Woods WWPS Force Main</td> <td>123</td> <td>15</td> <td>14</td> <td>67</td> <td>49</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9-9</td>	-75.20	Brandywine Woods WWPS Force Main	123	15	14	67	49	0	0	0	0	0	0	9-9
Parkway North Substation Replacement 5,003 15 1,175 3,813 2,650 1,163 0 0 0 0 0 Karington Subdivision Sewer 672 102 210 360 181 178 0	-75.21	Mattawoman WNVTP Upgrades	10,449	0	5,911	12,958	4,049	2,783	1,928	1,897	1,897	404	580	6-10
Karington Subdivision Sewer 672 102 210 360 181 179 0 0 0 0 0 0 Piscataway WWTP Facility Upgrades 143,294 8.241 4,290 130,763 31,115 39,591 24,810 24,278 10,969 0	-77.20	Parkway North Substation Replacement	5,003	15	1,175	3,813	2,650	1,163	0	0	0	0	0	6-11
Piscataway WWTP Facility Upgrades 143,294 8,241 4,290 130,763 31,115 39,591 24,810 24,278 10,969 0 Pieasant Valley Sewer Main, Part 2 877 43 199 635 393 165 77 0	86.19	Karington Subdivision Sewer	672	102	210	360	181	179	0	0	0	0	0	6-12
Pleasant Valley Sewer Main, Part 2 877 43 199 6885 393 166 77 0 0 0 0 Pleasant Valley Sewer Main, Part 1 1,756 98 464 1,188 970 218 0 0 0 0 0 0 0 Fort Washington Forest No. 1 WWPS Augmentation 4,775 2,558 342 1,875 600 0	96.14	Piscataway WWTP Facility Upgrades	143,294	8,241	4,290	130,763	31,115	39,591	24,810	24,278	10,969	0	0	6-13
Pleasant Valley Sewer Main, Part 1 1,756 98 464 1,186 970 218 0 <th< td=""><td>131.05</td><td>Pleasant Valley Sewer Main, Part 2</td><td>877</td><td>43</td><td>199</td><td>635</td><td>393</td><td>165</td><td>11</td><td>0</td><td>0</td><td>0</td><td>0</td><td>6-14</td></th<>	131.05	Pleasant Valley Sewer Main, Part 2	877	43	199	635	393	165	11	0	0	0	0	6-14
Fort Washington Forest No. 1 WWPS Augmentation 4,775 2,558 342 1,275 600 0 <td>131.07</td> <td>Pleasant Valley Sewer Main, Part 1</td> <td>1,750</td> <td>86</td> <td>464</td> <td>1,188</td> <td>970</td> <td>218</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>6-15</td>	131.07	Pleasant Valley Sewer Main, Part 1	1,750	86	464	1,188	970	218	0	0	0	0	0	6-15
2,312 2,312 0	131.10	Fort Washington Forest No. 1 WWPS Augmentation	4,775	2,558	342	1,875	1,275	900	0	0	0	0	0	6-16
426,845 212,888 32,821 180,566 60,397 52,596 26,871 26,216 13,549 927		Projects Pending Close-Out	2,312	2,312	0	0	0	0	0	0	0	0	0	6-17
		TOTAL PRINCE GEORGE'S COUNTY SEWER PROJECTS	428,845	212,888	32,821	180,556	60,397	52,596	26,871	26,216	13,549	927	280	