



APPROVED FY 2017 BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

ADOPTED DECEMBER 3, 2015
(Fiscal year starts on October 1)

Matthew T. Brown, Board Chairman

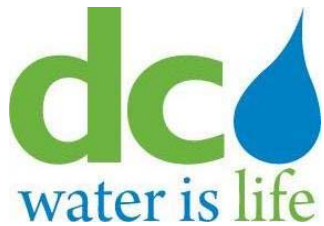
George S. Hawkins, CEO and General Manager

Mark T. Kim, Chief Financial Officer

**INNOVATIVE and
STRATEGIC PERFORMANCE**

dc
water is life
CAMBI
- recycling energy

Cambi digesters



Blue Horizon 2020 Strategic Plan

The DC Water Blue Horizon 2020 Strategic Plan, adopted by the Board of Directors in March 2013, serves as a blueprint for achieving a vision to be a world-class water utility. Three focus areas – leadership, value and innovation – serve as key drivers in achieving the goals and objectives of the plan. By laying out a course of action, Blue Horizon represents a disciplined process for making fundamental decisions and shaping DC Water’s future, including the appropriate allocation of funding.

FOCUS AREAS

Leadership: DC Water will advocate and lead local, regional, and national collaborations, while internally developing the workforce of the future.

Value: DC Water will be recognized for the value it delivers by protecting public health and the environment, supporting community sustainability, and providing for economic vitality.

Innovation: DC Water will achieve international prominence in development and adoption of science, technology, and processes in support of a culture of innovation.

VISION

To be a world-class utility.

VALUES

Respect: Serve with a positive attitude, courtesy, and respect that engender collaboration and trust.

Ethics: Maintain high ethical standards, accountability, and honesty as we advance the greater good.

Vigilance: Attend to public health, the environment, quality, efficiency, and sustainability of our enterprise.

Accountability: Address challenges promptly, implement effective solutions, and provide excellent service as a committed team.

MISSION

Exceed expectations by providing high quality water services in a safe, environmentally friendly, and efficient manner.

GOALS

The goals in our strategic plan framework represent the core strategies that DC Water will pursue. The Board and Executive Management believe that they are essential to the achievement of the mission and to becoming a world-class water utility.

OBJECTIVES

Objectives are the strategic measures that will enable the Board and Executive Management to evaluate achievement of the goals. Some of the specific measures will need to be further researched and refined as the organization implements the plan and obtains additional insight and information.

INITIATIVES

Initiatives are the allocation of resources (time and money) to achieve the objectives and the goals.

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Vacant, District of Columbia
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Scott Ellinwood, Internal Communications Manager
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Tamara Stevenson, Production Manager

OFFICE OF CHIEF INFORMATION OFFICER

Joseph M. Edwards, Director, Infrastructure and Operations

ACKNOWLEDGEMENTS

The office of the Chief Financial Officer would like to extend our appreciation to the Executive Team and Senior Management Staff for their strategic guidance and leadership.

In addition, we would like to acknowledge the following staff members from the departments of Finance, Accounting & Budget, Engineering & Technical Services and External Affairs for their hard work and dedication geared towards the publication of this document.

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Deborah Cole

Ted Coyle

Kunle Fagbohunka

Evel Fonfrele

Michael Goddard

Ermon Green

Paul Guttridge

Rodea Hines

Michelle Idowu

Stacey Johnson

Bill Jones

William Lake

Reginald Lipscomb

Priscilla Loperfido

Sarah Mandli

Melinda Massey

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Getachew Melsew

Dennis Samson

Suzette Stona

Pade Zuokemefa

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GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished
Budget Presentation
Award*

PRESENTED TO

District of Columbia Water & Sewer Authority

District of Columbia

For the Fiscal Year Beginning

October 1, 2015

Executive Director



OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section I EXECUTIVE BUDGET SUMMARY





Executive Budget Summary

Approved FY 2017 • Adopted December 3, 2015

(Fiscal year starting October 1)

Matthew T. Brown, Chairman of the Board

George S. Hawkins, CEO and General Manager

Mark T. Kim, Chief Financial Officer

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY



Anaerobic digesters



Executive Budget Summary

DC water is an independent authority of the District of Columbia, established under District of Columbia and Federal law; governed by an 11-member Board of Directors.

It provides clean drinking water to residents of the District of Columbia and wastewater and stormwater conveyance, and treatment services to both residents of the District of Columbia and wholesale customers in Maryland and Virginia.

This standalone document is intended for our diverse stakeholders. Additional Information can be found in the detail copies of our approved budget book available online at dcwater.com.

DC Water’s Board of Directors and the Executive Management Team collaborated to assess key industry trends and the greatest challenges, and to identify the critical factors important to DC Water’s long term success. This led to the adoption of DC Water’s Blue Horizon 2020 strategic plan, adopted by the Board of Directors in March 2013. The plan provides the framework for the formulation, prioritization and monitoring of the (operating and capital) budgets and financial planning process. Below are the strategic plan goals.

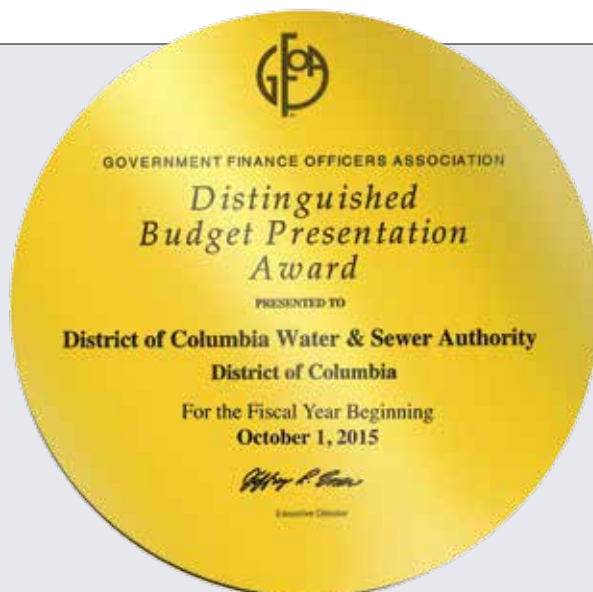
Strategic Plan (Blue Horizon 2020 Goals)

1. Develop, Maintain, and Recruit a High Performing Workforce
2. Collaborate Locally, Regionally, Nationally and Internationally
3. Increase Board Focus on Strategic Direction
4. Enhance Customer and Public Confidence, Communications and Perception
5. Promote Financial Sustainability and Responsible Resource Allocation
6. Assure Safety and Security
7. Maximize Water Quality Treatment, Compliance and Efficiency
8. Optimally Manage Infrastructure
9. Enhance Operating Excellence through Innovation, Sustainability, and Adoption of Best Practices



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CEO and General Manager's Message

As I enter my seventh year at the helm of DC Water, I see the accomplishments in our wake are tremendous. We are leading the industry and the nation in many areas of environmental protection, operations and system upgrades, research and development, innovative financing, communication and sustainability.

The budget discipline we have exercised while financing multi-billion-dollar projects and caring for aging infrastructure brings us to the point where our FY 2017 budgets are finally decreasing and we are seeing a reduction in rate increase percentage. DC Water is proposing multi-year rates and fees for FY 2017 and FY 2018.

Beyond our budget discipline, the keys to our vibrant performance and outlook can be found in our unwavering commitment to the Board's Strategic Plan, our goal to find new revenue streams beyond ratepayers, creating efficiencies and a commitment to finding and developing new talent.

DC Water's Board of Directors recently adopted a revised and streamlined Strategic Plan that identifies goals, objectives and initiatives across all areas of the enterprise. Currently, our team is developing new performance metrics and displaying them in ways that communicate a sense of "why this matters." For example, the number of water main repairs in a system has no objective standard across the industry. But comparing water main repairs per hundred miles of pipe then gives the ability to compare our numbers to established baselines.

Second, we are exploring prospects for new revenue sources. From numerous patent-pending technologies and devices that we plan to bring to market, to consulting and research services and service agreements, we are leaving no stone unturned. We recognize that every dollar we can generate from these activities reduces the pressure on our ratepayers. A prime example of these services is the research laboratory at Blue Plains where engineers can perform analysis on sludge from other plants using specific technologies to analyze the results. This, in turn, informs the treatment plant design process for other utilities.

Next, creating efficiencies and leveraging technology reduces our costs while improving sustainability. The Bailey Bioenergy Facility at Blue Plains is a fantastic example—DC Water was the first in North America to install CAMBI thermal hydrolysis technology which, when coupled with anaerobic digestion, creates electricity out of the solids left over at the end of the wastewater treatment process.



Finally, we continually look to add to our world-class team of innovators, developing talent from within and also scouring the country to find the best candidates. We recently added two key positions in Chief Operating Officer and Chief Marketing Officer. They, along with our Innovations Chief, will further develop and refine our culture of innovation, process improvement and developing new revenue streams for an even brighter outlook.

A handwritten signature in black ink that reads "George S. Hawkins".

George S. Hawkins
Chief Executive Officer and General Manager



I am pleased to present DC Water's board-adopted budgets for Fiscal Year 2017. These budgets reflect significant reductions in both operating and capital expenditures over prior years, and they are closely aligned with the Authority's goal to ensure customer affordability and provide world class service.

The Approved FY 2017 Operating budget totals \$535.8 million, which is a one percent decrease from FY 2016. Authorized position levels remain flat, as they have for the past several years. Our 10-year Capital Improvement Program (CIP) totals \$3.66 billion, representing a five percent decrease from last year's 10-year CIP. The reduction in capital expenditures is primarily due to the completion of two massive environmental projects undertaken by DC Water in recent years, as well as a third project approaching its spending peak now and that is expected to trend down in the coming years. The benefits of these capital investments can be seen in the reductions in our operating budget, most notably in the areas of electricity and hauling costs.

With these adopted budgets, DC Water has laid a solid foundation for its future. In FY 2015, we also undertook a careful and strategic analysis of our entire rate structure with three overarching goals:

1. Improve affordability, particularly for low-income customers;
2. Better align revenues and expenditures; and
3. Establish a dedicated funding source to replace aging infrastructure.

The Board adopted this new rate structure, which represented the first significant restructuring in DC Water's history. After successfully implementing these new rates in FY 2016, the Board adopted a resolution authorizing a multi-year rate proposal covering FY 2017 and FY 2018. With this two-year rate proposal – another first for DC Water – our customers should be better able to plan and prepare for future rate increases. For DC Water, it provides greater revenue certainty and increased budget discipline.

Over this past year, we further established our green credentials by successfully issuing our second green bond to support the Clean Rivers Project. The \$100 million issuance tapped a different class of investors (retail) than the previous green bond since it was a traditional 30-year, tax-exempt bond as compared to the previous 100-year taxable century bond. The green bonds were well received by the market with strong demand, and they were quickly oversubscribed which allowed the Authority to lower the interest rates it must pay on the bonds. Our two green bond sales totaling \$450 million targeted socially responsible investors, an investor class whose interest in environmentally responsible and sustainable investments is a natural fit for DC Water.

The FY 2017 board-adopted budgets represent the collective work of the enterprise in striving to achieve DC Water's strategic plan, Blue Horizons 2020. I wish to acknowledge Gail Alexander-Reeves, Budget Director, and the entire operating and capital budget teams for their hard work and dedication in preparing this year's budget presentation.

Mark T. Kim
Chief Financial Officer

Budget Summary

A Budget that focuses on: Innovative and Strategic Performance

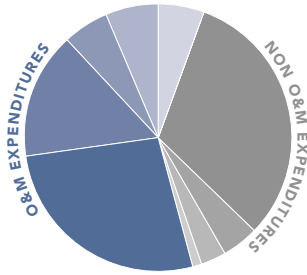
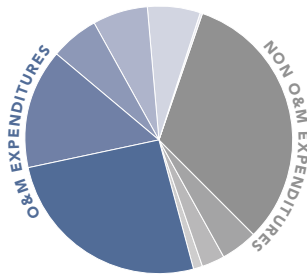
The approved budgets provide the necessary resources to balance the need to maintain DC Water's critical infrastructure with rates that are reasonable, fair and affordable. The main focal points of these budgets include tighter budget discipline, implementation of an alternate rate structure and multi-year rate proposal.

The following charts highlight the FY 2016/2017 operating and capital budgets. Detailed descriptions can be found in the budget book available online at dcwater.com.

Operating Expenditures (\$ Thousands)

FY 2016

FY 2017



O&M EXPENDITURES

- \$140,034 - Personal Services
- \$79,244 - Contractual Services
- \$30,740 - Water Purchases
- \$35,951 - Chemicals and Supplies
- \$35,018 - Utilities
- \$1,465 - Small Equipment

NON O&M OPERATING EXPENDITURES

- \$174,766 - Debt Service
- \$23,644 - Cash Financed Capital Improvements
- \$25,644 - Payment in Lieu of Taxes
- \$5,100 - Right of Way Fees

O&M EXPENDITURES

- \$144,761 - Personal Services
- \$82,760 - Contractual Services
- \$29,278 - Water Purchases
- \$34,709 - Chemicals and Supplies
- \$28,670 - Utilities
- \$1,230 - Small Equipment

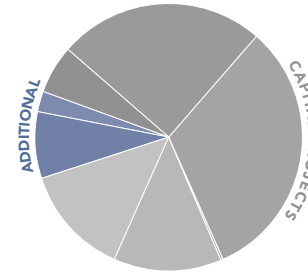
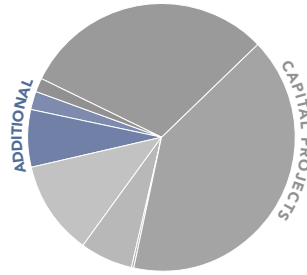
NON O&M EXPENDITURES

- \$169,346 - Debt Service
- \$24,014 - Cash Financed Capital Improvements
- \$15,957 - Payment in Lieu of Taxes
- \$5,100 - Right of Way Fees

Capital Improvement Program (\$ Thousands)

FY 2016

FY 2017



CAPITAL PROJECTS

- \$9,309 - Non Process Facilities
- \$168,637 - Wastewater Treatment
- \$223,105 - Combined Sewer Overflow
- \$1,263 - Stormwater
- \$34,786 - Sanitary Sewer
- \$61,878 - Water

ADDITIONAL CAPITAL PROGRAMS

- \$39,226 - Capital Equipment
- \$10,838 - Washington Aqueduct

CAPITAL PROJECTS

- \$28,613 - Non Process Facilities
- \$117,814 - Wastewater Treatment
- \$151,125 - Combined Sewer Overflow
- \$1,430 - Stormwater
- \$61,144 - Sanitary Sewer
- \$62,537 - Water

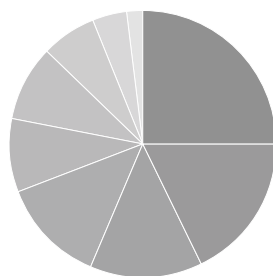
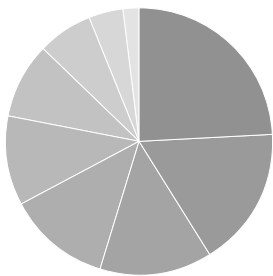
ADDITIONAL CAPITAL PROGRAMS

- \$38,737 - Capital Equipment
- \$10,838 - Washington Aqueduct

Operating Revenues (\$ Thousands)

FY 2016

FY 2017



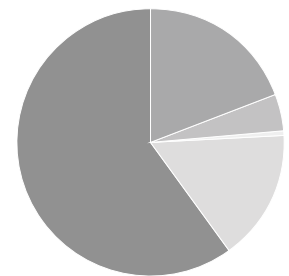
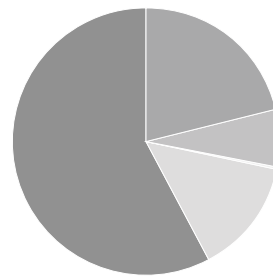
- \$140,724 - Commercial
- \$99,037 - Residential
- \$79,458 - Wholesale
- \$72,136 - Multi-family
- \$62,989 - Federal Government
- \$52,136 - Other Revenues
- \$40,000 - Water System Replacement Fee
- \$23,258 - Municipal & Housing
- \$10,776 - Metering Fee

- \$149,820 - Commercial
- \$104,665 - Residential
- \$79,946 - Wholesale
- \$75,634 - Multi-family
- \$53,590 - Federal Government
- \$53,556 - Other Revenues
- \$40,000 - Water System Replacement Fee
- \$24,816 - Municipal & Housing
- \$10,776 - Metering Fee

Capital Revenues (\$ Thousands)

FY 2016

FY 2017



- \$342,453 - Debt Financing & Proceeds from Commercial Paper/Extendable Municipal Commercial Paper/Treasury Notes
- \$126,693 - Wholesale Capital Payments
- \$41,244 - EPA Grants & CSO Appropriations
- \$82,548 - Pay-Go Financing
- \$998 - Interest Income on Bond Proceeds

- \$300,000 - Debt Financing & Proceeds from Commercial Paper/Extendable Municipal Commercial Paper/Treasury Notes
- \$97,321 - Wholesale Capital Payments
- \$22,129 - EPA Grants & CSO Appropriations
- \$78,725 - Pay-Go Financing
- \$2,415 - Interest Income on Bond Proceeds



PERFORMANCE MEASURES

The DC Water Blue Horizon 2020 Strategic Plan includes efforts for developing and reporting performance measures that management and the Board of Directors will use to assess progress in achieving the Strategic Plan objectives. These measures and targets will help the Authority set overall priorities to determine how resources are allocated through the ten-year financial plan and develop the operating and capital budgets necessary to sustain and improve services. Ultimately, these measures will be used by DC Water’s management to assess and improve work processes while monitoring overall performance on a monthly, quarterly and annual basis.

In FY 2016, DC Water will participate in national and international benchmarking surveys to assess the Authority’s performance in comparison to peer utilities. These surveys will assist DC Water in identifying strengths and gaps in organizational development, customer relations, business operations, water operations, wastewater operations, and asset management. These surveys include the 2016 American Water Works Association Utilities Benchmarking Survey and the International 2016 Asset Management Customer Value Benchmarking Survey.

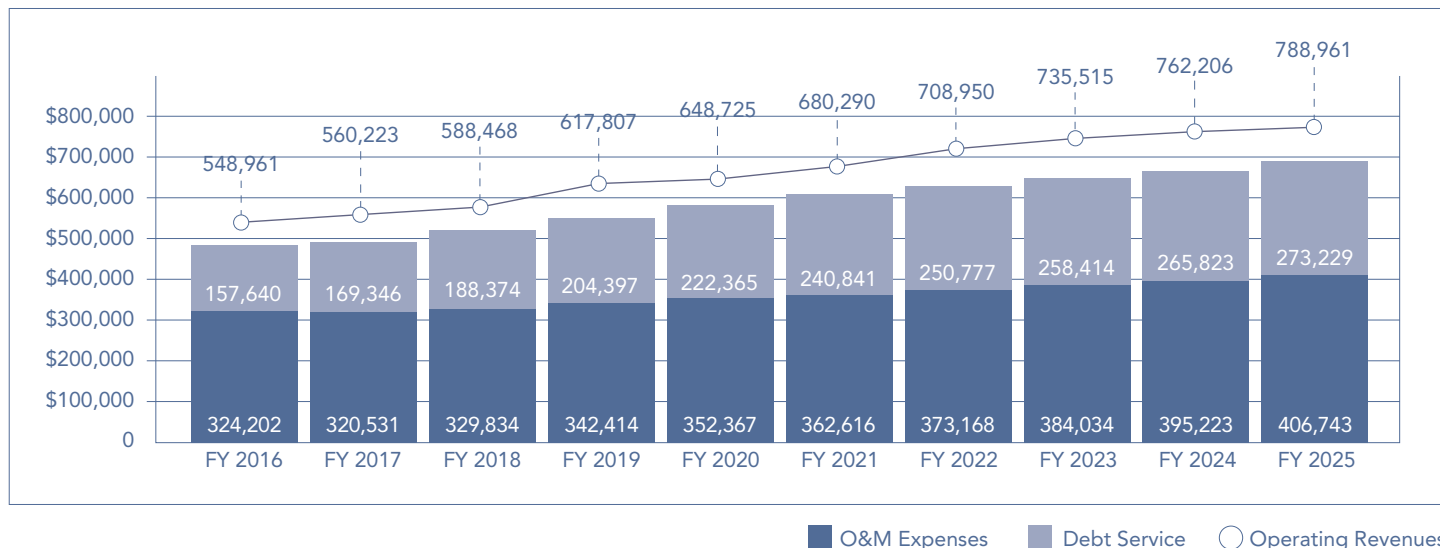
The Path to a World-Class Water Utility



Ten-Year Financial Plan

DC Water has a ten year financial plan which provides a strong financial framework to support implementation of the Board strategic plan, policies, priorities and guidance in several key financial areas. This financial plan serves as one of management’s key tools to monitor progress in meeting financial goals and to proactively address future financial and operational issues. Given DC Water’s substantial borrowing needs over the next ten years, adherence to these Board policies is crucial in order to cost-effectively access the capital markets and retain our credibility with customers and regulators. The ten-year financial plan encompasses annual projected revenue requirements, operating expenditures, debt service costs, coverage ratios for indenture requirements, sufficiency, and liquidity to meet all the Authority’s financial obligations.

FY 2016 - FY 2025 FINANCIAL PLAN (\$ Thousands)



Operational Impact of Major Capital Investments

DC Water's capital improvement program (CIP) includes operational impacts of significant capital investments on several large projects such as the Biosolids Management Plan (BMP), Clean Rivers and Blue Plains Total Nitrogen Program (BTN). Below is a list of pertinent information on current and future operational impacts of these non-routine capital investments.



Biosolids Management Plan

This facility, which is now operational, significantly reduces DC Water's carbon footprint. The innovative thermal hydrolysis process uses intense heat and pressure to treat wastewater solids, producing a much cleaner biosolids and onsite generation of up to one third of Blue Plains' electricity needs. This process has resulted in operational efficiencies in electricity, biosolids hauling and chemicals costs.



Fleet Management

DC Water continues with the replacement plan for its aging fleet inventory with fuel efficient vehicles and equipment. The major impacts of this replacement plan are in the areas of lower costs for fuel and related maintenance and repairs.



Blue Plains Total Nitrogen Program

This rehabilitation/upgrade includes several nitrification and denitrification tanks, pumps and other infrastructure which reduces the amount of nitrogen in Blue Plains' effluent to meet the new U.S Environmental Program (EPA) regulatory requirements. DC Water continues to meet all EPA Consent Decree requirements on the disposal of nitrogen into the Potomac River.



Water Services

During FY 2015, the authority's performance in the water service area exceeded the DC Water Board's goal of renewing 1.0 percent of the small diameter water. Other major replacements and upgrades to reservoirs and pumping stations would result in increased operational flexibility and reduction in long term maintenance costs.



Clean Rivers

This project aims to nearly eliminate combined sewer overflows (CSO's) to the Anacostia and Potomac Rivers and Rock Creek, while improving the health of the Chesapeake Bay. This ongoing project is currently employing green infrastructure initiatives that will divert enriched water to the Blue Plains Advanced Wastewater Treatment Plant (AWWTP) for cleaning and processing. The tunnels have been completed between Blue Plains and Main and O Pumping Stations, with ongoing work on the Anacostia River Tunnel and the First Street Tunnel, which would alleviate flooding in the Bloomingdale Neighborhood of DC.

DC Water’s annual operating budgets provide the resources necessary to sustain a multi-billion dollar water treatment and distribution and sewage collection and treatment system. The Authority continues to deliver clean water, collect and treat the sewage before returning clean water to the local waterways and repair main and sewer breaks as needed. The adopted budget strategy incorporates two core focus areas: affordability and financial sustainability.

The approved FY 2017 budget totals \$535.8 million, a decrease of \$5.8 million or approximately 1 percent from FY 2016 budget. Major drivers of the operations & maintenance expenditures are:

- Authorized headcount remains flat with projected personnel cost increases to support hiring efforts, overtime and health benefits

- Operational efficiencies and cost savings from DC Water’s thermal hydrolysis process and anaerobic digesters. This includes projected electricity generation which will power up to one third of Blue Plains Plant’s operation and fifty percent reduction in hauling costs resulting from the production of class A biosolids
- Projected decrease in water purchase represents DC Water’s

share of the process optimization and operational efficiencies at Washington Aqueduct

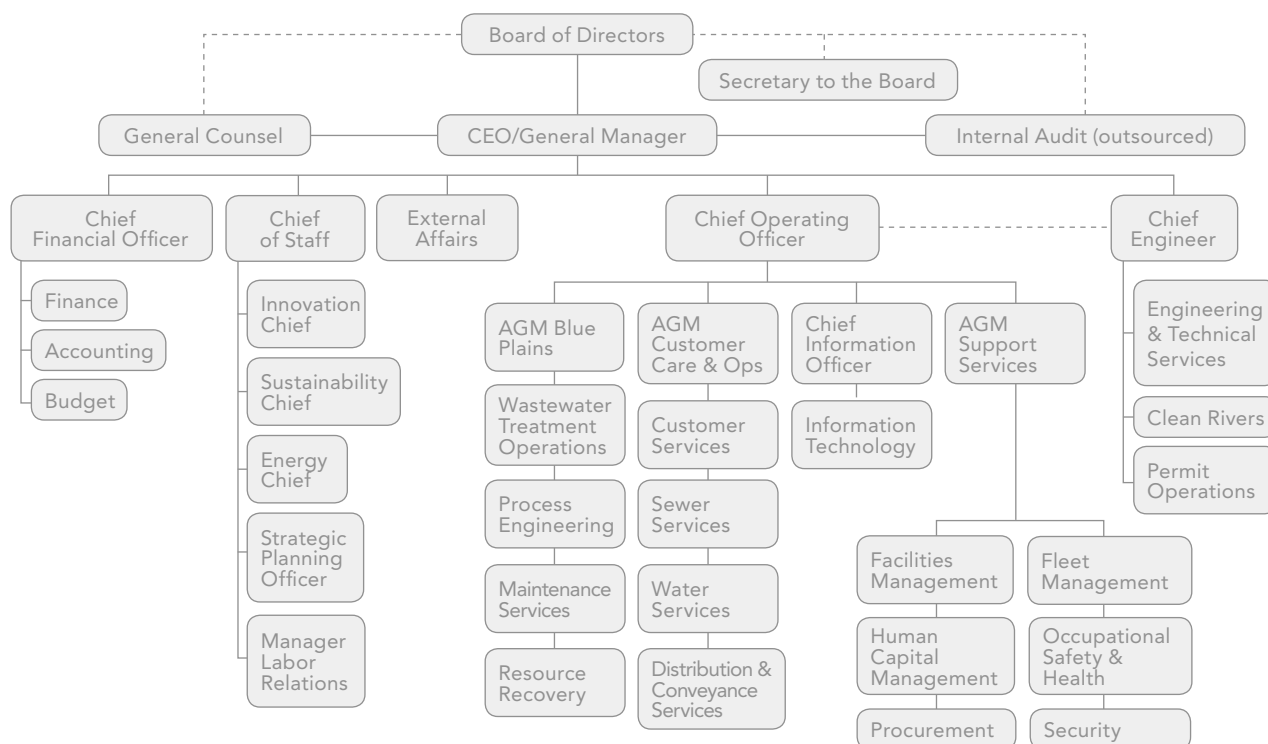
- Expansion of the DC Water Works Program in line with the Authority’s goal to collaborate with contractors to promote local hiring

Detailed descriptions of the approved FY 2016 and FY 2017 operating budgets are available online at dcwater.com.

COMPARATIVE OPERATING BUDGETS BY CATEGORY (\$ Thousands)

	FY 2016 Approved	FY 2017 Approved
Personnel Services	\$140,034	\$144,761
Contractual Services	79,244	82,760
Water Purchases	30,740	29,278
Chemicals and Supplies	35,951	34,709
Utilities	35,018	28,670
Small Equipment	1,465	1,230
Subtotal O&M Expenditures	\$322,451	\$321,408
Debt Service	174,766	169,346
Cash Financed Capital Improvements	23,644	24,014
Payment in Lieu of Taxes	15,644	15,957
Right of Way Fees	5,100	5,100
Subtotal Non O&M Expenditures	\$219,154	\$214,417
Total Operating Expenditures	\$541,605	\$535,825

DC Water Organizational Chart



DC Water's organizational structure is a key tool for ensuring that the organizational mission is achieved. The structure consists of twenty-four departments that are defined primarily along functional roles and further grouped along service lines (Operational or Administrative) or reporting lines (cluster groups) of authority.

Operating Expenditures By Department (\$ Thousands)

	FY 2016 APPROVED	FY 2017 APPROVED
BLUE PLAINS	\$115,812	\$109,515
Wastewater Treatment - Operations	86,972	80,466
Maintenance Services	20,549	21,057
Wastewater Treatment - Process Engineering	8,291	7,991
CHIEF ENGINEER	\$29,278	\$30,394
DC Clean Rivers	2,966	3,023
Engineering & Technical Services	24,069	25,126
Permit Operations	2,214	2,244
CHIEF FINANCIAL OFFICER	\$13,465	\$14,391
Finance, Accounting & Budget	13,465	14,391
CUSTOMER CARE & OPEARTIONS	\$106,295	\$106,767
Customer Services	17,500	18,679
Sewer Services	15,267	15,077
Water Services	22,574	22,936
Distribution & Conveyance System	50,954	50,075
INDEPENDENT OFFICES	\$23,635	\$25,028
Board Secretary	614	625
External Affairs	2,203	2,272
General Counsel	5,733	5,823
General Manager	3,683	4,373
Information Technology	10,530	11,045
Internal Audit	872	890
SUPPORT SERVICES	\$33,966	\$35,313
Assistant General Manager - Support Services	367	527
Fleet Management	5,732	5,456
Human Capital Management	6,733	7,823
Occupational Safety & Health	1,694	1,691
Procurement	4,603	4,450
Facilities Management	8,276	8,490
Security	6,562	6,877
SUBTOTAL O&M EXPENDITURES	\$322,451	\$321,408
Debt Service	174,766	169,346
Cash Financed Capital Improvements	23,644	24,014
Payment in Lieu of Taxes	15,644	15,957
Right of Way Fees	5,100	5,100
SUBTOTAL NON O&M EXPENDITURES	\$219,154	\$214,417
TOTAL OPERATING EXPENDITURES	\$541,605	\$535,825
Personnel Services charged to Capital Projects	(18,993)	(21,934)
TOTAL NET OPERATING EXPENDITURES	\$522,612	\$513,891
FULL TIME APPROVED POSITIONS	1,260	1,260



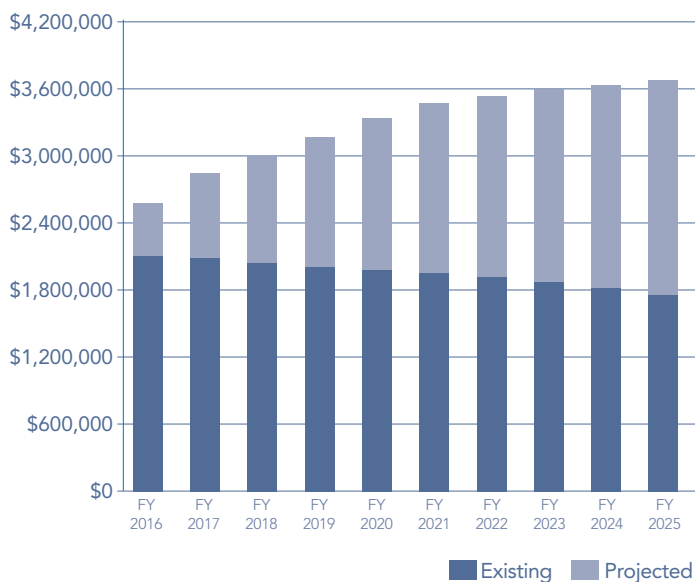


In DC Water’s support of 10-year \$3.66 billion CIP (cash disbursement basis), debt service continues to be the fastest growing line item of the operating budget. Debt management consists of managing funds borrowed through revenue bonds, commercial paper, and other short-term notes. Currently, debt financing represents 62 percent of the funding in the ten-year capital program. Debt service is projected to be approximately 32 percent of each of the FY 2016 and FY 2017 operating budgets. The Authority’s long term debt, including current maturities total \$2.2 billion as of the end of FY 2015.

With the success of the first Green Bond in FY 2014, the Authority issued its second \$100 million Green Bond in early October of 2015. This issuance will support the Authority’s DC Clean River Project. An additional \$250 million of Subordinate Lien Public Utility Revenue Bond will be issued to support the Authority’s Capital Improvement Program (CIP). DC Water’s strong financial performance and its success in achieving and maintaining strong bond ratings has been primarily due to the annual development of and adherence to a ten-year strategic financial plan. In September 2015, Standard and Poor’s Ratings Services, Moody’s Investors Service and Fitch Ratings reaffirmed their current AA+, Aa2 and AA ratings respectively on DC Water’s senior lien bonds. These notable results are due to the Authority’s solid financing team and strong financial performance, diligent planning and market favorability.

In addition, as new issuances are planned, internet road shows for domestic and international investors are provided, giving pertinent information on the Authority’s strong management, capital improvement activities and financial forecasts. DC Water provides information for current and future investors on its website, dcwater.com.

FY 2016 - FY 2025 DEBT OUTSTANDING (\$ Thousands)



Capital Improvement Program (CIP)

Development of DC Water's Capital Improvement Program (CIP) budget was especially challenging this year as the anticipated ten-year spending level decreased by \$183 million or approximately 5 percent. The FY 2016 – FY 2025 CIP provides a framework for the development, prioritization, implementation and measurement of the capital projects undertaken.

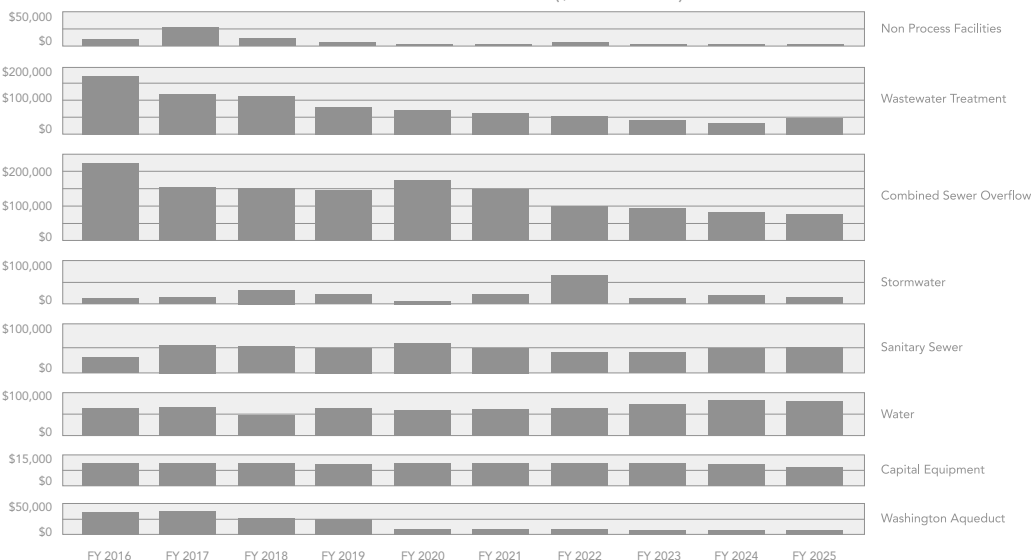
The FY 2016 and FY 2017 capital budgets total \$549.0 million and \$472.2 million, respectively (cash disbursement basis), while the ten-year CIP totals \$3.66 billion (cash disbursements basis) and Lifetime budget is \$10.4 billion (total commitments for projects that are active during the ten-year CIP).

Detailed description of major CIP changes and program details can be found in Section V – Capital Improvement Program of the budget book and online at dcwater.com.

FY 2016 – FY 2025 CAPITAL IMPROVEMENT PROGRAM (\$ Thousands)

FY 2016 Revised	FY 2017 Approved	Service Area	Ten Year Disbursement Plan	Total Lifetime Budget
\$9,309	\$28,613	Non Process Facilities	\$71,368	\$139,297
168,637	117,814	Wastewater Treatment	797,159	3,066,979
223,105	151,125	Combined Sewer Overflow	1,330,380	3,174,995
1,263	1,430	Stormwater	21,396	84,898
34,786	61,144	Sanitary Sewer	507,937	1,429,216
61,878	62,537	Water	635,995	1,847,670
\$498,977	\$422,663	Capital Projects	\$3,364,235	\$9,743,055
39,226	38,737	Capital Equipment	188,156	205,861
10,838	10,838	Washington Aqueduct	108,209	108,209
\$50,063	\$49,575	Additional Capital Programs	\$296,365	\$314,070
		Labor	-	352,774
\$549,040	\$472,238	Total Capital Budgets	\$3,660,600	\$10,409,899

TEN YEAR DISBURSEMENTS BY SERVICE AREA (\$ Thousands)



MEASURE OF PRIORITY (\$ Thousands)

	Mandates Agreements, Regulatory standards, Court orders, Issues and Permits requirements, Stipulated Agreements, Etc.	Health and Safety Required to address Public Safety	Board Policy Undertaken as a result of the Board's commitment to outside agencies	Potential Failure Related to Facilities in danger of failing, or critical to meeting permit requirements	High Profile / Good Neighbor Address Public Concern	Good Engineering / High Payback Need to fulfill Mission and upgrade Facilities	Good Engineering / Lower Payback Lower priority projects	Total
FY 2016	\$235,815	\$18,339	\$78,425	\$35,437	\$4,421	\$143,949	\$32,653	\$549,040
FY 2017	208,132	14,484	38,343	45,229	7,865	94,134	64,050	472,238
FY 2018	178,779	16,695	23,502	55,825	2,869	86,709	49,267	413,646
FY 2019	130,482	9,958	30,487	70,785	1,813	92,020	50,286	385,831
FY 2020	162,824	6,149	29,389	54,791	-	100,029	29,591	382,772
FY 2021	137,623	5,140	28,527	27,775	46	100,551	44,997	344,660
FY 2022	84,005	462	34,307	23,855	171	90,411	53,437	286,649
FY 2023	83,461	44	39,122	27,465	362	88,012	35,969	274,436
FY 2024	79,345	45	40,765	33,689	2,471	94,205	21,924	272,442
FY 2025	63,593	-	43,189	45,905	432	93,844	31,922	278,886
TOTAL	\$1,364,058	\$71,316	\$386,057	\$420,756	\$20,452	\$983,864	\$414,097	\$3,660,600
% of Total	37.3%	1.9%	10.5%	11.5%	0.6%	26.9%	11.3%	100%



Operating Revenues, Rates, Fees and Charges

Operating Revenues

To provide continuous delivery of water and wastewater services, it is vital that DC water has a consistent revenue stream to cover operating and maintenance (O&M) costs, debt service, and other liquidity requirements. DC Water has a diverse customer base and receives revenues from a variety of sources. Retail rates are charges for water, sewer and other services to DC Water's customers. Wholesale revenues are received from suburban water and sewer authorities for their share of the O&M costs of the Blue Plains Advanced Wastewater Treatment Plan.

Based on the analysis of the peak demand of different customer classes as well as affordability considerations, DC Water has adopted several changes to its existing retail rate structure in FY 2016. These changes are designed to better align the Authority's revenues and expenditures by establishing customer class-based volumetric water rates based upon peaking factors, to create a more progressive rate structure for its residential customers by establishing lifeline water rates, which discount core consumption and to fund the Authority's water main replacement program by establishing a monthly,

fixed **Water System Replacement Fee (WSRF)**. This fee is designed to fund the renewal and replacement of aging water service lines. DC Water has expanded its affordability program for low income customers by providing 100 percent credit for WSRF.

The FY 2016 revised revenue budget totals \$580.5 million and is projected to increase to \$592.8 million and \$618.7 million in FY 2017 and FY 2018, respectively.

The Board has adopted the proposal for a new **System Availability Fee (SAF)** to be effective April 1, 2016. SAF is a one-time fee assessed to a property owner of any premises, building or structure to recover the cost of system capacity serving all

metered water service and sanitary sewer connections and renovation or redevelopment projects that require an upsized meter service connection to the District's potable water system. The fee is assessed based on the peak water demand, excluding fire demand, for new meter water service connection and renovation or redevelopment projects that increase the peak water demand and associated SAF meter size for the property.

Multi-Year Rate Proposal: DC Water is moving to a multi-year rate proposal in FY 2016 covering the period FY 2017 and FY 2018. The projected benefits include (1) greater revenue certainty, (2) increased budget discipline and (3) better alignment between revenues and expenditures.

FY 2016 - FY 2018 OPERATING REVENUES (\$ Thousands)

	FY 2016 Revised	FY 2017 Approved	FY 2018 Proposed
Residential	\$99,037	\$104,665	\$111,410
Commercial	140,724	149,820	158,913
Multi-family	72,136	75,634	79,607
Federal Government	62,989	53,590	57,258
District Government & Housing	23,258	24,817	26,784
Water System Replacement Fee	40,000	40,000	40,000
Metering Fee	10,776	10,776	10,776
Wholesale	79,458	79,946	82,344
Other Revenue	52,136	53,556	51,593
Total	\$580,514	\$592,804	\$618,685

FY 2016 - FY 2018 RETAIL RATES AND FEES

	Units	FY 2016 Approved	FY 2017 Proposed	FY 2018 Proposed	FY 2017 Increase/Decrease		FY 2018 Increase/Decrease		
					\$	%	\$	%	
DC Water Retail Rates – Water									
• Residential 0-4 Ccf (Lifeline) ²	Ccf	\$3.08	\$3.23	\$3.39	\$0.15	5.0%	\$0.16	5.0%	
• Residential – > 4 Ccf ²	Ccf	\$3.87	\$4.06	\$4.26	\$0.19	5.0%	\$0.20	5.0%	
• Multi-family / DC Housing ²	Ccf	\$3.45	\$3.62	\$3.80	\$0.17	5.0%	\$0.18	5.0%	
• Non-Residential ²	Ccf	\$3.99	\$4.19	\$4.40	\$0.20	5.0%	\$0.21	5.0%	
DC Water Retail Rates – Sewer	Ccf	\$5.44	\$5.71	\$6.00	\$0.27	5.0%	\$0.29	5.0%	
DC Water Clean Rivers IAC	ERU	\$20.30	\$22.24	\$25.18	\$1.94	9.6%	\$2.94	13.2%	
DC Water Customer Metering Fee	5/8"	\$3.86	\$3.86	\$3.86	\$0.00	0.0%	\$0.00	0.0%	
DC Water System Replacement Fee ¹	5/8"	\$6.30	\$6.30	\$6.30	\$0.00	0.0%	\$0.00	0.0%	
District of Columbia PILOT Fee	Ccf	\$0.47	\$0.48	\$0.49	\$0.01	2.0%	\$0.01	2.0%	
District of Columbia Right-of-Way Fee	Ccf	\$0.17	\$0.17	\$0.18	\$0.00	0.0%	\$0.01	5.9%	
District of Columbia Stormwater Fee	ERU	\$2.67	\$2.67	\$2.67	\$0.00	0.0%	\$0.00	0.0%	

Clean Rivers Impervious Area Charge (CRIAC)

The CRIAC is a separate sewer service fee established in FY 2009 to recover the approximately \$2.6 billion cost of implementing the DC Clean Rivers Project (the District's CSO-Long Term Control Program). The proposed monthly CRIAC ranges from \$22.24 per ERU (Equivalent Residential Unit) in FY 2017 to \$42.49 per ERU in FY 2025. The twenty year federal mandated CRIAC project is primarily driven by anticipated debt service costs to support the approximately \$2.6 billion CSO Long Term Control Plan and is based on the amount of impervious surface on each individual property which impacts wet weather runoff that must be treated at the Blue Plains Wastewater Treatment Plant. The ten-year plan assumes no external funding beyond the special Congressional appropriation. DC Water has received \$210.8 million as of September, 2015.





Customer Affordability

In the District of Columbia, one-fourth of the residents live below the poverty line, thus rate affordability is of utmost concern in the planning process. DC Water seeks to balance its operating and financial needs with consideration to the financial impact upon its customers. EPA guidelines suggest that fees and charges should be within 4 percent of the median household income to be considered affordable (2 percent for water and 2 percent for sewer). Using the last available census data (2013), DC Water's rates are well under that target and they are comparable with similar water and wastewater utilities.

DC Water sponsors two programs to assist low income customers in paying their water bills:

Customer Assistance Program ("CAP"): The Authority implemented the CAP in 2001 providing a discount of 4 Ccf per month of water service for single family residential homeowners that meet income eligibility guidelines. In FY 2004, the Authority expanded the CAP to include tenants who meet the financial eligibility requirements and whose primary residence is separately metered by the Authority. In January 2009, the Authority further expanded the CAP to provide a discount of 4 Ccf per month of sewer services to eligible customers. In FY 2011, the discount was expanded to the first 4 Ccf associated with the PILOT/ROW fee in addition to the current discount provided on water and sewer services. In FY 2015, CAP assisted 4,498 customers and provided \$1.1 million in discounts to low-income customers. Effective October 1, 2015, DC Water's low income CAP customers will also receive 100 percent credit for Water System Replacement Fee (WSRF).

Serving People by Lending a Supporting Hand ("S.P.L.A.S.H"): The SPLASH program was implemented in FY 2001 to help families in sudden need avoid termination of critical water and sewer services. The program is administered by the Greater Washington Urban League. Every dollar received by DC Water is distributed to eligible customers. In FY 2015, SPLASH assisted 351 households and provided \$115,684 in contributions to low-income customers.

Regional Demographics

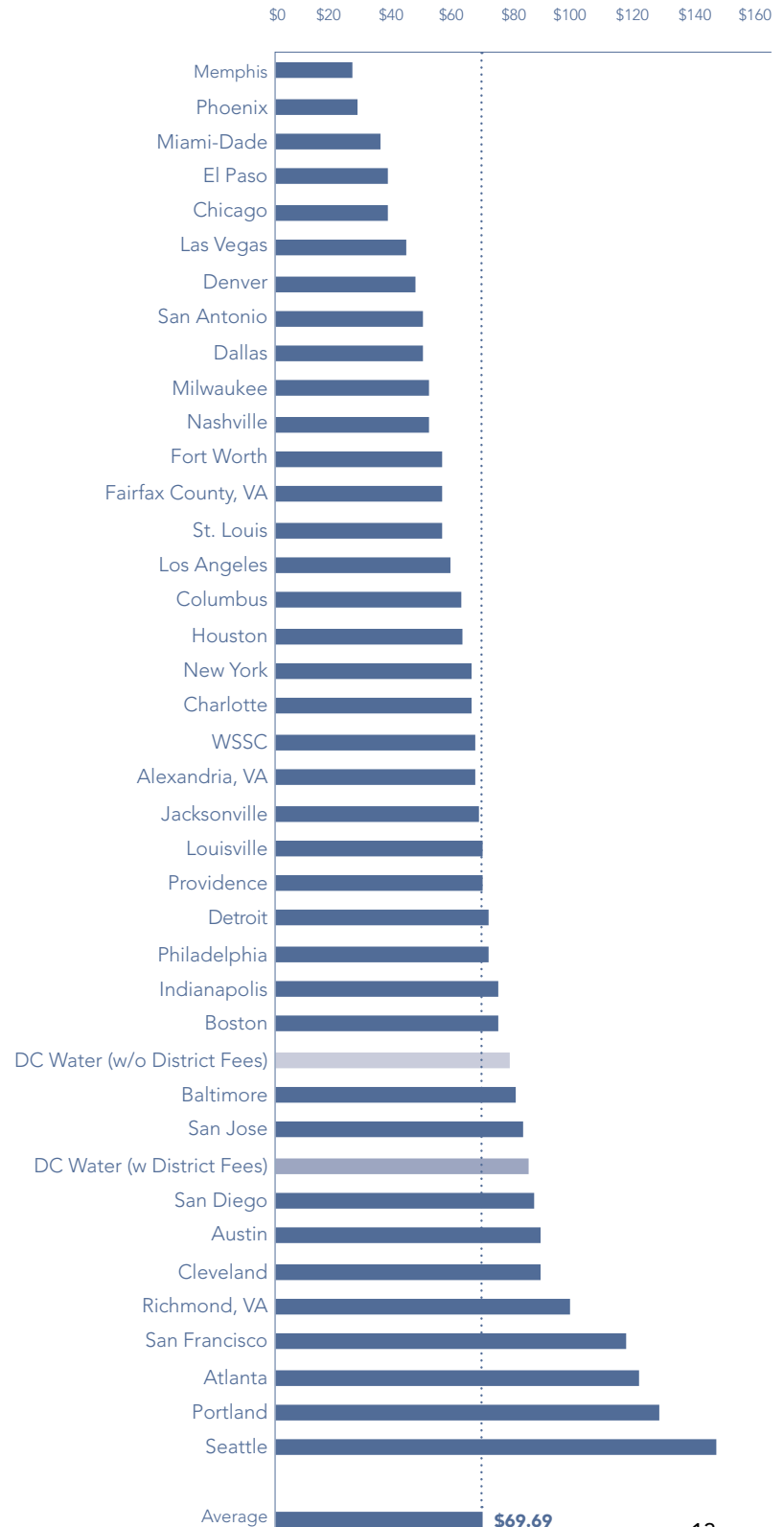
At DC Water, identifying and understanding customer requirements are a strategic component of our planning process. Therefore, we must be sensitive to the local economy in terms of sociopolitical and macro-economic trends. DC Water's retail customers include 'Residential, Commercial and Multifamily', (which is the largest base), 'Federal Government', 'DC Government', and the 'DC Housing Authority. There are nearly 660,000 residents in the District of Columbia living in approximately 306,000 households and merely 134,000 customers with the responsibility to pay for the majority of operations, maintenance and replacement of the water and sewer infrastructure throughout Washington, DC. Compared to the additional 1.6 million living throughout the DC Water service area and using a small portion of the wastewater collection and a larger portion of the treatment facilities, there are fewer customers to share the burden of the aging infrastructure assets serving the residents, visitors and governmental entities in Washington DC. The FY 2016 budget incorporates trends and statistics impacting DC and the region.



FY 2016 - FY 2018 AVERAGE RESIDENTIAL CUSTOMER MONTHLY BILL

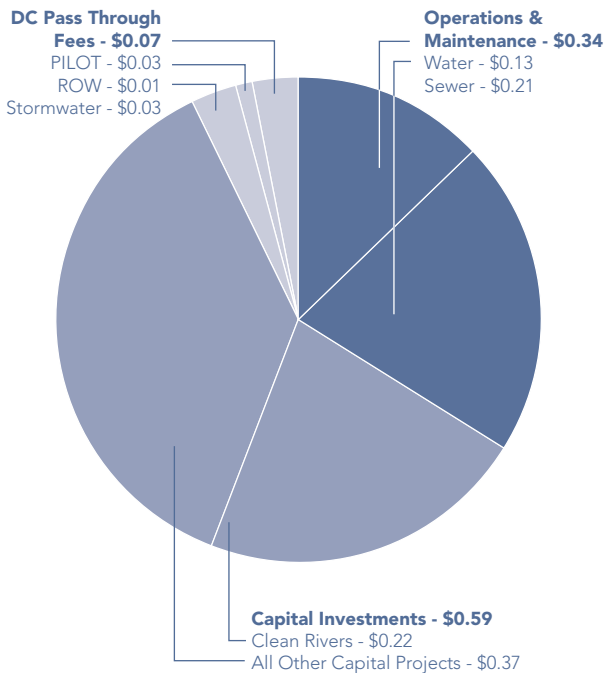
	Current (FY 2016)	Proposed (FY 2017)	Proposed (FY 2018)
DC WATER RATES AND FEES			
Water / Sewer Retail Rates	\$59.12	\$62.04	\$65.16
Clean Rivers IAC	\$20.30	\$22.24	\$25.18
Customer Metering Fee	\$3.86	\$3.86	\$3.86
Water System Replacement Fee	\$6.30	\$6.30	\$6.30
DC Water Subtotal	\$89.58	\$94.44	\$100.50
DISTRICT OF COLUMBIA CHARGES			
PILOT	\$3.14	\$3.21	\$3.28
Right-of-Way Fee	\$1.14	\$1.14	\$1.20
Stormwater Fee	\$2.67	\$2.67	\$2.67
District Subtotal	\$6.95	\$7.02	\$7.15
Total Bill	\$96.53	\$101.46	\$107.65
(% Increase)		5.1%	6.1%

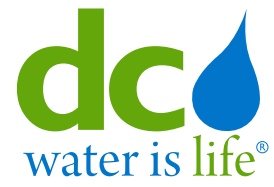
DC WATER RETAIL RATES COMPARED TO OTHER LARGE UTILITIES



FY 2017: Where Does Your Money Go?

How does DC Water spend each \$1.00 received from the average residential customer?





dcwater.com

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OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section II OVERVIEW



History: In 1996, the District of Columbia Water and Sewer Authority was created by District law, with the approval of the United States Congress, as an independent authority of the District Government with a separate legal existence.

Age of Pipes: The median age of District water main pipes is over 77 years old, with approximately 9 percent of pipes installed in the 1900s and 2 percent dating back to the 1860s before the Civil War.

Service Area: Providing more than 660,000 residents and 20.2 million annual visitors in the District of Columbia with retail water and wastewater (sewer) service, DC Water has a total service area of approximately 725 square miles. In addition, DC Water treats wastewater for approximately 1.6 million people in neighboring jurisdictions, including Montgomery and Prince George's Counties in Maryland and Fairfax and Loudoun Counties in Virginia.

Employees: Approximately 1,100 people are employed by DC Water and work at various facilities across the District.

Drinking Water Quality: With a strong emphasis on water quality, DC Water maintains an annual flushing program, regulatory and voluntary water quality testing and ongoing system upgrades. In partnership with the U.S. Army Corps of Engineers Washington Aqueduct, DC Water ensures a high quality treatment process for delivering outstanding drinking water throughout the year.

Pumped and Treated Water Storage: During Fiscal Year 2015, DC Water pumped an average of 117 million gallons of water per day. In addition, DC Water stores 61 million gallons of treated water at its eight facilities. The Washington Aqueduct stores an additional 49 million gallons.

Water Distribution System: DC Water delivers water through 1,350 miles of interconnected pipes, four pumping stations, five reservoirs, three water tanks, 43,860 valves, and 9,452 fire hydrants.

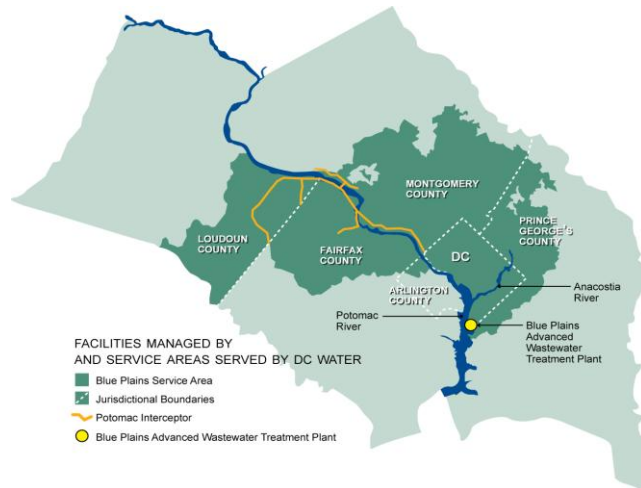
Blue Plains Advanced Wastewater Treatment Plant: Blue Plains, located at the southernmost tip of the District, is the largest advanced wastewater treatment facility in the world, covering 153 acres along the Potomac River.

Wastewater Treatment Capacity: Blue Plains treats an annual average of 300 million gallons per day (MGD) and has a design capacity of 370 MGD, with a peak design capacity to treat more than one billion gallons per day.

Sewer System: 1,800 miles of sanitary and combined sewers and 22 flow-metering stations, 9 off-site wastewater pumping stations, 16 stormwater pumping stations, 12 inflatable dams and a swirl facility comprise the DC Water sewer system.

Financial Performance: In Fiscal Year 2015, all three leading credit rating agencies (Moody's, S&P and Fitch) reaffirmed DC Water's "AA+" credit rating. DC Water also received its 17th consecutive unqualified audit opinion of its financial statements.

DC WATER SERVICE AREA



Customer Service: DC Water communicates valuable customer-related information through bill inserts, monthly newsletters, its website, and social media to include Facebook, YouTube, Flickr and Twitter. Using an interactive voice recognition system, DC Water makes information readily available in more than 150 languages.

A 24-hour Emergency Command Center, at (202) 612-3400, operates as the centralized communication facility for receiving and responding to a variety of emergency calls from customers and the public.

Community Service: Donating their time and resources, DC Water employees actively support a variety of charitable projects and community services. DC Water also invests in the community by conducting science laboratory exercises in District high schools and engaging the public through tours of the Blue Plains Plant.

Governance: DC Water’s Board of Directors establishes policies and guides the strategic planning process. The Board is composed of 22 members, representing the District, Montgomery and Prince George’s Counties in Maryland and Fairfax County in Virginia. The District members set rates, charges and policies for District services. The entire Board votes and establishes policies for joint-use services. The Chief Executive Officer/General Manager reports to the Board and manages operations and performance of the enterprise.

DC Water Financial Information (\$ in millions)		
	FY 2016	FY 2017
Bond Rating: Aa2/AA/AA+		
Revenue (Cash Receipts)	\$580.5	\$592.8
Operating Budget	\$541.6	\$535.8
Capital Disbursements Budget	\$549.0	\$472.2

Budget Summary

Description	Unit of Measurement	FY 2016	FY 2017	Increase/ (Decrease)
Operating Budget	\$ in thousands	\$541,605	\$535,825	(\$5,780)
Ten-Year CIP (Cash Disbursements)	\$ in billions	\$3.84	\$3.66	(\$0.18)
Total Revenue	\$ in thousands	\$580,514	\$592,803	\$12,289
Wholesale Operating Revenues	\$ in thousands	\$79,458	\$79,946	\$488
Water Residential – 0 – 4 Ccf	Ccf	\$3.08	\$3.23	\$0.15
Water Residential - > 4 Ccf	Ccf	\$3.87	\$4.06	\$0.19
Water Multi-family	Ccf	\$3.45	\$3.62	\$0.17
Water Non-residential	Ccf	\$3.99	\$4.19	\$0.20
Sewer	Ccf	\$5.44	\$5.71	\$0.27
Monthly Clean Rivers IAC	ERU	\$20.30	\$22.24	\$1.94
Water System Replacement Fee*	5/8"	\$6.30	\$6.30	\$0
PILOT Fee	Ccf	\$0.47	\$0.48	\$0.01
ROW Fee	Ccf	\$0.17	\$0.17	\$0

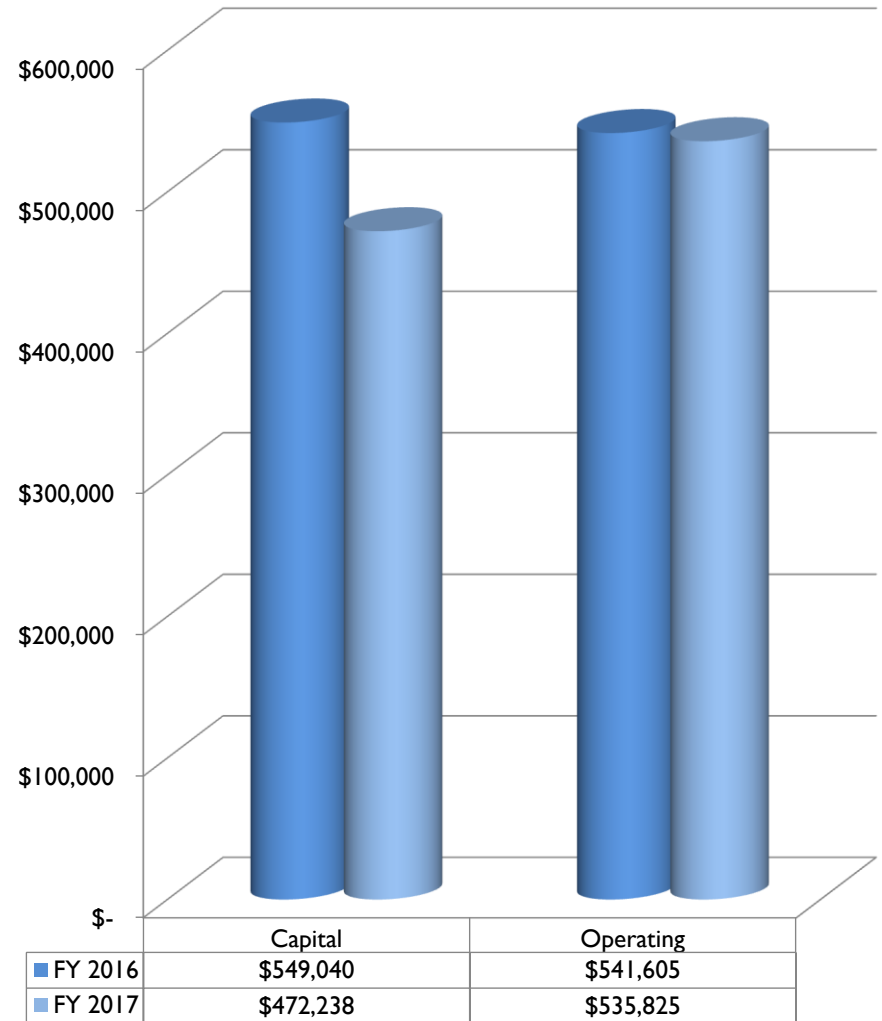
* This is a new fixed monthly Water System Replacement Fee (WSRF) of \$6.30 for 5/8" meter. This fee, which varies with meter size, is to recover the cost of 1% renewal and replacement program for water service lines.

Comparative Operating & Capital Expenditures

\$ in thousands

OPERATING AND CAPITAL BUDGETS ENSURE SERVICE NEEDS AND STRATEGIC OBJECTIVES ARE MET

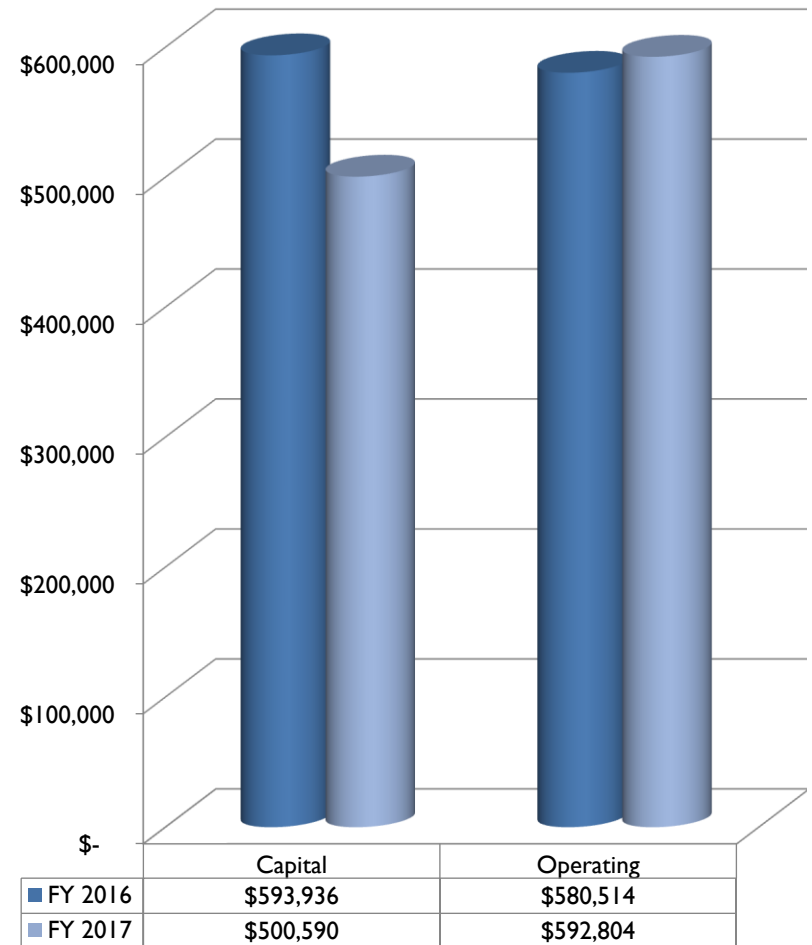
	APPROVED FY 2016	APPROVED FY 2017
<u>CAPITAL (Cash Disbursements Basis)</u>		
Wastewater Treatment	\$ 149,375	\$ 117,287
Sanitary Sewer	42,175	62,864
Combined Sewer Overflow	238,703	177,492
Stormwater	1,178	1,440
Water	67,546	63,580
Washington Aqueduct	10,864	10,838
Capital Equipment	39,199	38,737
Total Capital	\$ 549,040	\$ 472,238
<u>OPERATING</u>		
Personnel Services	140,034	144,761
Contractual Services	79,244	82,760
Water Purchases	30,740	29,278
Chemicals and Supplies	35,951	34,709
Utilities	35,018	28,670
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Total O&M	322,451	321,408
Debt Service	174,766	169,346
Cash Financed Capital Improvements	23,644	24,014
Payment in Lieu of Taxes	15,644	15,957
Right of Way Fees	5,100	5,100
Subtotal Operating	541,605	535,825
Personnel Services charged to Capital Projects	(18,993)	(21,934)
Net Operating	\$ 522,612	\$ 513,891



Comparative Operating & Capital Revenues

\$ in thousands

	APPROVED FY 2016	APPROVED FY 2017
CAPITAL		
Wholesale Capital Payments	\$ 126,693	\$ 97,321
EPA Grants & CSO Appropriations	41,244	22,129
Interest Income on Bond Proceeds	998	2,415
Pay-Go Financing	82,548	78,725
Debt Financing & Proceeds from Commercial Paper		
Extendable Municipal Commercial Paper/Treasury Notes	342,453	300,000
Total Capital Revenue	\$ 593,936	\$ 500,590
OPERATING		
Residential	\$ 99,037	\$ 104,665
Commercial	140,724	149,820
Multi-family	72,136	75,634
Federal Government	62,989	53,590
Municipal & Housing	23,258	24,817
Water System Replacement Fee (WSRF)	40,000	10,776
Metering Fee	10,776	40,000
Wholesale	79,458	79,946
Other Revenue	52,136	53,556
Total Operating Revenue	\$ 580,514	\$ 592,804



- Water and Sewer volumetric rates are listed below:
 - Residential customers: “Consumption of 0 – 4 Ccf” water rate increase of \$0.15 per Ccf to \$3.23 per Ccf, {increase of \$0.20 to \$4.32 per 1,000 gallons}
 - Residential customers: “Consumption greater than 4 Ccf” water rate increase of \$0.19 per Ccf to \$4.06 per Ccf, {increase of \$0.26 to \$5.43 per 1,000 gallons}
 - Multi-family: water rate increase of \$0.17 per Ccf to \$3.62 per Ccf, {increase of \$0.23 to \$4.84 per 1,000 gallons}
 - Non-residential customers: water rate increase of \$0.20 per Ccf to \$4.19 per Ccf, {increase of \$0.27 to \$5.60 per 1,000 gallons}
- Sewer rate increase of \$0.27 per Ccf to \$5.71 per Ccf, {increase of \$0.36 to \$7.63 per 1,000 gallons}
- Monthly Clean Rivers Impervious Area Charge increase of \$1.94 to \$22.24 per ERU to recover the costs of the DC Clean Rivers Project
- Water System Replacement Fee (WSRF) of \$6.30 for 5/8” meter size will remain the same. This fee varies with meter size. The WSRF is to recover the costs of 1 % renewal and replacement program for water service lines
- PILOT fee increase of \$0.01 per Ccf to \$0.48 per Ccf {increase of \$0.01 to \$0.64 per 1,000 gallons}
- No increase in ROW fee, which remains the same at \$0.17 per Ccf {\$0.23 per 1,000 gallons}

- Water and Sewer volumetric rates are listed below:
 - Residential customers: “Consumption of 0 – 4 Ccf” water rate increase of \$0.16 per Ccf to \$3.39 per Ccf, {increase of \$0.21 to \$4.53 per 1,000 gallons}
 - Residential customers: “Consumption greater than 4 Ccf” water rate increase of \$0.20 per Ccf to \$4.26 per Ccf, {increase of \$0.27 to \$5.70 per 1,000 gallons}
 - Multi-family: water rate increase of \$0.18 per Ccf to \$3.80 per Ccf, {increase of \$0.24 to \$5.08 per 1,000 gallons}
 - Non-residential customers: water rate increase of \$0.21 per Ccf to \$4.40 per Ccf, {increase of \$0.28 to \$5.88 per 1,000 gallons}
- Sewer rate increase of \$0.29 per Ccf to \$6.00 per Ccf, {increase of \$0.39 to \$8.02 per 1,000 gallons}
- Monthly Clean Rivers Impervious Area Charge increase of \$2.94 to \$25.18 per ERU to recover the costs of the DC Clean Rivers Project
- Water System Replacement Fee (WSRF) of \$6.30 for 5/8” meter size will remain the same. This fee varies with meter size. The WSRF is to recover the costs of 1 % renewal and replacement program for water service lines
- PILOT fee increase of \$0.01 per Ccf to \$0.49 per Ccf {increase of \$0.01 to \$0.65 per 1,000 gallons}
- ROW fee increase of \$0.01 per Ccf to \$0.18 per Ccf {increase of \$0.01 to \$0.24 per 1,000 gallons}

Cash Flow Summary

summary

overview

financial plan

rates&rev

capital

financing

departmental

glossary

\$ in thousands

	FY 2015 Actual	FY 2016 Approved	FY 2016 Revised	FY 2017 Approved
OPERATING BUDGET				
Operating Revenue				
Residential, Commercial & Multi-Family	\$229,995	\$248,481	\$245,071	\$254,504
Federal	43,384	44,250	44,250	36,925
Municipal	5,561	6,644	6,818	7,087
D.C. Housing Authority	5,959	6,844	6,863	7,134
Groundwater	-	5	5	5
Water System Replacement Fee	-	40,000	40,000	40,000
Metering Fee	11,111	10,776	10,776	10,776
Payment in Lieu of Taxes / Right of Way Fee	22,098	20,744	20,584	20,976
Clean Rivers IAC Revenue	86,002	95,137	95,137	102,869
Sub-total Retail	404,109	472,881	469,504	480,278
Wholesale	81,230	69,342	79,458	79,946
Interest Earnings	742	1,369	1,093	2,424
Other Operating Rev. ⁽¹⁾	59,910	26,303	30,213	29,650
Total Operating Revenue ⁽¹⁾	\$545,992	\$569,894	\$580,268	\$592,298
Operating Expenditures				
Personnel Services	115,793	121,041	121,041	122,827
Contractual Services	74,331	79,243	79,243	82,760
Chemicals & Supplies	32,973	35,951	35,951	34,709
Utilities & Rent	21,951	35,018	35,018	28,670
Water Purchases	27,912	30,740	30,740	29,278
Small Equipment	527	1,465	1,465	1,230
Subtotal - Operating Expenditures	273,486	303,458	303,458	299,474
Payment in Lieu of Taxes / Right of Way Fee	20,437	20,744	20,744	21,057
Debt Service	140,671	174,766	157,640	169,346
Cash Financed Capital Improvements/Defeasance	-	23,644	23,475	24,014
Total Operating Disbursements	\$434,595	\$522,612	\$505,317	\$513,891
Operating Surplus ⁽¹⁾	110,397	47,282	74,950	78,407
CAPITAL Disbursements (See Section VI for more details)				
Sources of Capital Funds	348,577	475,692	593,936	500,590
Uses of Capital Funds	589,167	543,199	549,042	472,238
Capital Disbursements Overage / (Shortage)	(240,590)	(67,348)	44,894	28,352
CASH RESERVES				
Beginning O&M Reserve Balance (Net of Rate Stabilization Fund)	\$157,642	\$140,000	\$160,055	\$140,000
Operating Surplus	111,397	47,282	74,950	78,407
Wholesale Customer Refunds/Payments for Prior Years	(2,483)	(5,500)	(5,500)	(5,500)
Transfer to Rate Stabilization Fund	(17,500)	(4,500)	(19,000)	-
Federal Customer Refund/Payments for Prior Years	(5,053)	(11,679)	(11,679)	(19,201)
Interest Earned from Bond Reserve	104	311	247	505
Pay-As-You-Go Capital Financing	(84,053)	(25,914)	(59,073)	(54,711)
Ending O&M Reserve Balance (Net of Rate Stabilization Fund)	2,412	-	(20,055)	(500)
Rate Stabilization Fund	\$ 32,450	\$ 19,450	\$ 51,450	\$ 51,450
(1) Does not include interest earned from the debt service reserve fund				

The District of Columbia Water and Sewer Authority (DC Water) was created in April 1996 and began operating October 1, 1996 under and pursuant to an act of the Council of the District of Columbia and an act of the United States Congress. Previously, the Water and Sewer Utility Administration, a division of the District's Department of Public Works, performed DC Water's operations. In the aftermath of the District's financial crisis in the 1990s, Congress created an independent utility agency governed by a Board of Directors consisting of eleven principal and eleven alternate members who represent the District of Columbia, Montgomery and Prince George's Counties in Maryland and Fairfax County in Virginia to govern DC Water. The Mayor of the District of Columbia appoints, and the Council confirms, all District Board members, including the Chairperson. In addition, the Mayor appoints the five principal and five alternate members who represent the surrounding jurisdictions based on submissions from those jurisdictions. All members serve four-year terms. The existence of a quorum and an affirmative vote of a majority of the members present, who are permitted to participate in the matter under consideration, shall be required to approve any Board action; except, that 7 affirmative votes shall be required for approval of the Authority's budget and 8 affirmative votes shall be required for the selection or relieving of the CEO/General Manager. All Board members participate in decisions directly affecting the general management of joint-use facilities (such as projects at the Blue Plains Advanced Wastewater Treatment Plant), and only the District of Columbia members participate in decisions for those matters that affect only District ratepayers. Rates setting authority resides solely with the Board of Directors, and is a non-joint use matter.

At its inception, DC Water faced a cash shortage and projected multi-million dollar deficit. The newly established utility was also burdened with a barely functional fleet, poorly maintained infrastructure, an antiquated billing system, and a number of operating weakness. Through the leadership of an active Board of

Directors and strong management staff, a line of credit was obtained, municipal bonds were issued and new strategic goals, business processes and technologies were developed. DC Water made tremendous strides in its prudent financial management and cutting-edge technology, customer service improvements, extensive capital investment, environmental stewardship, peer-reviewed research and establishment of an award winning fleet. Our credit rating since 1996 has gone from no credit to AA+.

Over the years, we have developed strong partnerships with the District government, Congress, suburban jurisdictions, federal regulators and environmental advocates. We are continuing to strengthen our existing partnerships while reaching out to establish new relationships. Our success has been acknowledged through many awards as well as positive financial results and audits over the years. Since 1996, the Authority has met its mission of providing clean drinking water to residents of the District of Columbia and wastewater conveyance and treatment services to both residents of the District and wholesale customers in Maryland and Virginia.

At DC Water, we focus all of our technology initiatives on improving both the quality of services we provide to our customers and organizational effectiveness. We were one of the first utilities to automate our meter reading program (AMR) which has been heralded as a best practice in the industry. The automated meters use radio frequency and cell phone technology to send daily water usage information from the meter to DC Water. This tool analyzes daily water consumption and provides monthly and yearly averages on an account so a customer can monitor their own water use. In addition, we developed a powerful application in-house called the High Use Notification Application (HUNA). This tool alerts customers of unusually high amounts of water delivered to their meter so they can check for leaks and avoid a high bill. Over the last 10 years that we have offered the service, 32% of all customers have received at least one alert. We anticipate reaching a total of 60,000 alerts sent to customers in 2016.

Basis of Accounting

DC Water is a single enterprise fund and maintains accounting records using the accrual basis of accounting in accordance with Generally Accepted Accounting Principles (GAAP). Under this basis of accounting, revenues are recorded when earned, and expenses are recorded when goods and services are received. DC Water's expenditure budget is prepared on a comparable basis to GAAP, with the exception of debt service (including principal and interest) that is budgeted in full when due. Depreciation and interest expense are recorded as expenses for financial statement purposes. (Depreciation is not budgeted.)

Annual Budget Process

As a first step in the budget development process, the Finance, Accounting & Budget Department updates DC Water's ten-year financial plan to reflect any revisions to the capital improvement program and any other major revenue or operating budget issues, and analyzes the potential impact of these items on rates. In addition to these items, the ten-year plan is also developed based on the financial and rate-setting policies adopted by the Board as well as the Board's Strategic Plan.

Approval Process

In June, departments submit their initial budget requests for management review. DC Water's strategic and operational priorities are included in each department's work plan and performance agreements, as appropriate. During the month of June and in early July, departments complete budget reviews with budget staff, and in July and August, reviews are held with the Executive Team and with the CEO/General Manager in tandem.

Typically in November of each year, management presents the operating budget, ten-year capital improvement program and ten-year financial plan to the Board's Environmental Quality and Sewerage Services, Water Quality and Water Services, DC Water Retail Water and Sewer Rates and Finance and Budget Committees for their review. This budget is proposed for the following fiscal year (e.g. beginning October 1, 2015). The Committees review the budget documents in November through December and submit budget recommendations to the full Board in December. Typically, decisions are finalized and Board action on the budget is taken between December and January.

Upon budget adoption, the Budget Department publishes and distributes the approved budget book and ensures that DC Water's budget is included in the District of Columbia's budget submission, which is transmitted to the U.S. Congress for approval. Once approved by Congress, the budget is effective October 1 of each year.

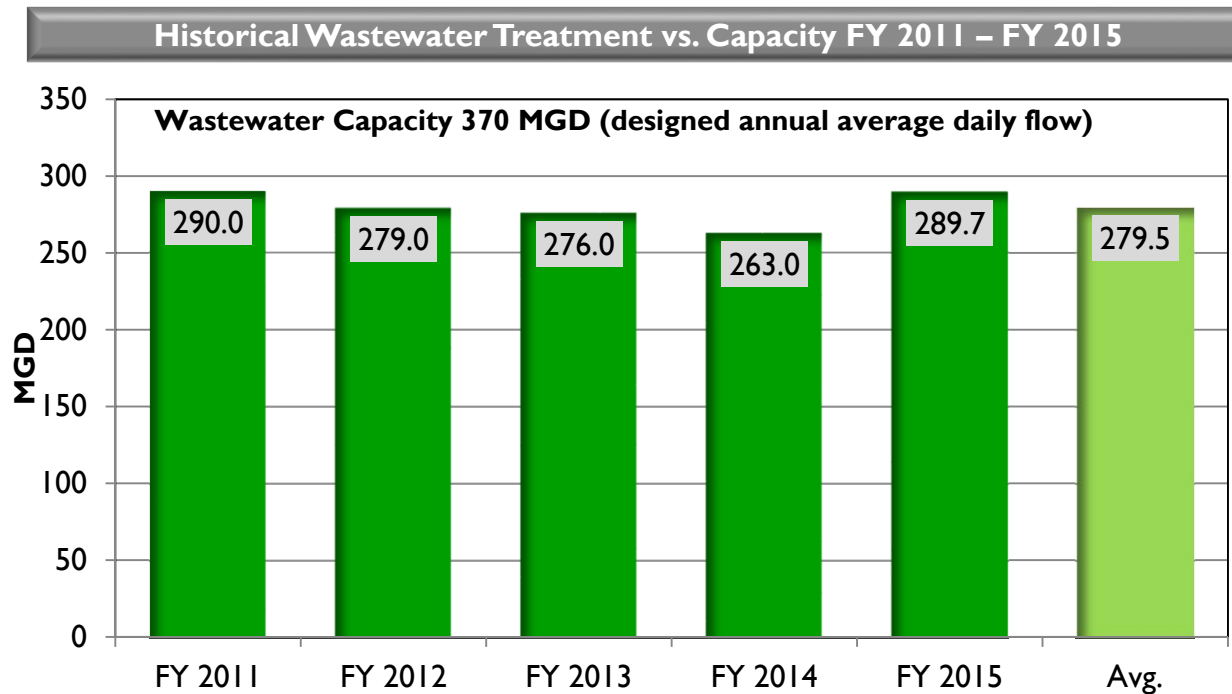
Budgetary Control

After the U.S. Congress approves the budget, the operating and capital budgets are loaded into the DC Water's financial management system, which prevents overspending without appropriate approvals. The Department of Finance, Accounting and Budget prepares monthly management reports for each operating unit, management staff, the Board of Directors and its various committees. The reports are consistently reviewed each month to ensure that DC Water complies with its authorized budget levels.

Month	Event
May 12	Chief Executive Officer (CEO) & General Manager’s Budget Kickoff Meeting
May 12	Distribution of budget manual and budget templates
June 12	FY 2017 Operating and Ten-Year Capital Budget requests due to Finance, Accounting and Budget department (Team FAB)
June - July	Revised FY 2016 Budget Proposed Review with Committee Departmental FY 2017 Operating and Capital Budget Reviews with Team FAB, Office of General Manager, Information Technology (IT) and Support Services
July 2	FY 2016 Retail Rates & Fees Proposal Delivered to Full Board for Action
July	Evaluation of departmental FY 2017 budget requests by Budget Department Begin Preliminary Ten-Year Financial Plan update (Submit IMA, CSO and EPA grants) CFO review of budget proposals
August	Operating and Capital Budget Review with CEO & GM, Chief Operating Officer and Executive Team
August	Completion of Final FY 2017 Operating and Ten-Year Capital Budget Decisions Process
September	Transmittal of CEO & GM’s final budget proposal to Assistant General Managers & Department Heads
October	Budget Book Preparation and Production
November 5	Budget Workshop – Board Briefing of the CEO & GM’s Proposed FY 2017 Budgets
November	Committees Conduct in-depth review of budget proposal Committees forward recommendations to full Board for deliberation/action
December 3	Board Adoption
December	Submission to the District of Columbia

WASTEWATER SYSTEM CAPACITY ENSURES SERVICE AREA MEETS NEEDS THROUGH 2040

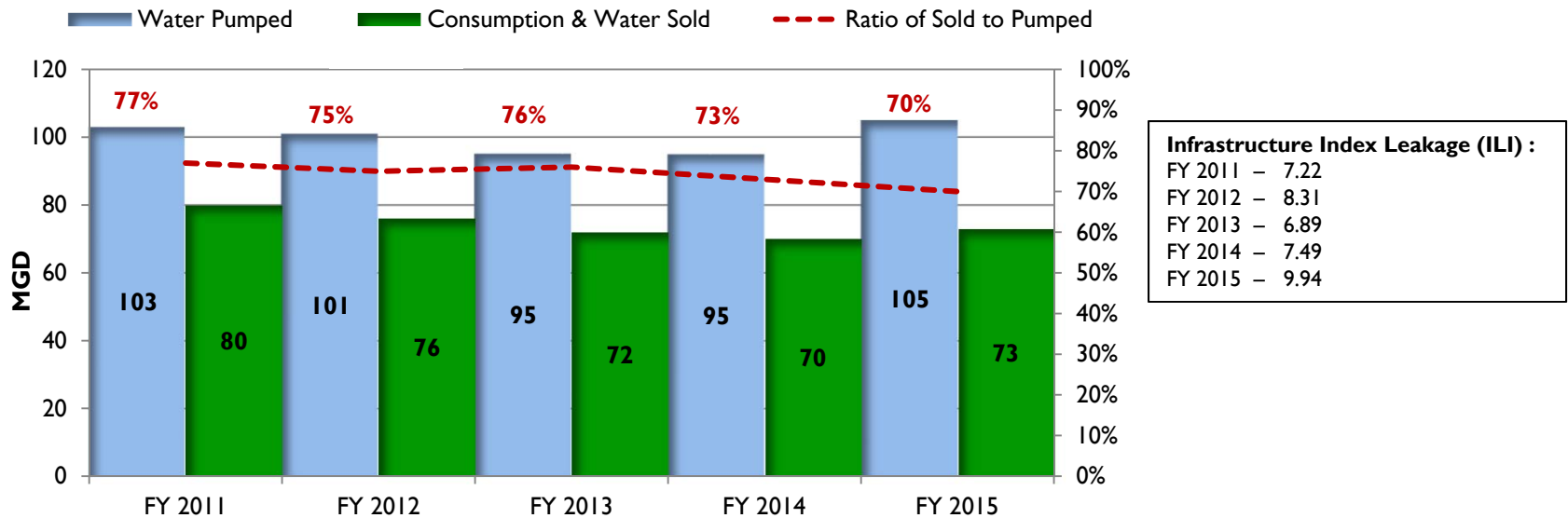
- Blue Plains is the world’s largest advanced wastewater treatment plant
 - Treats an average of approximately 300 million gallons per day (MGD) annually
 - Designed for average daily flow of 370 MGD and peak wet weather capacity of 1,076 MGD
- System comprises 1,800 miles of sanitary, stormwater and combined sewers; 125,000 building sewer lateral; 22 flow-metering stations; 9 off-site wastewater pumping stations; and 16 stormwater pumping stations



WATER SYSTEM CAPACITY MEETS SERVICE AREA NEEDS

- Water purchased from the Washington Aqueduct, owned and operated by U.S.Army Corps of Engineers
- Total treatment capacity of 320 MGD exceeds average daily and peak requirements in service areas
- Four pumping stations with adequate capacity to meet peak demand
 - Bryant Street, New Fort Reno, 16th and Alaska, Anacostia
- One Washington Aqueduct pumping station with capacity sufficient to take over for Bryant Street pumping station
- 1,350 miles of interconnected pipes

Volume of Water Pumped versus Sold FY 2011 – FY 2015



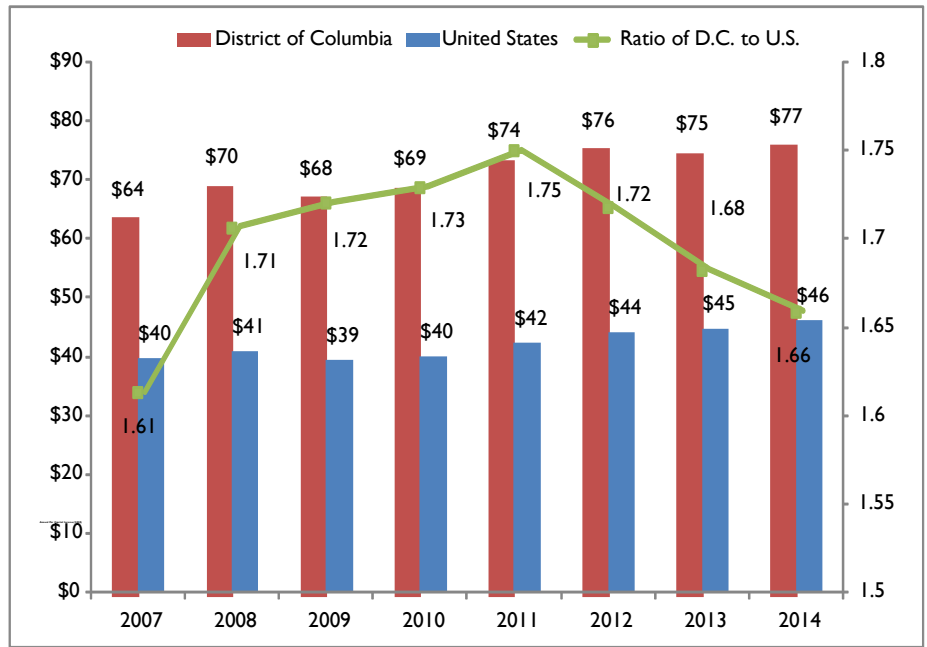
Strong financial planning requires careful monitoring and analysis of various trends and factors that may influence the market place. In this case, the market place for DC Water is the District of Columbia and its surrounding region. DC Water monitors consumption and wastewater flow trends within the customer base, weather patterns, regional income changes, population trends, federal activity in the region, housing starts, office vacancy rates and employment trends. A review of experiences from similar national systems is a useful benchmark assessment. While there are no crystal balls in the area of forecasting water demand, monitoring such data can provide insight into customer behavior and anticipated service demands.

Regional Economy

Despite a sluggish national economy, DC Water's service area has weathered the national recession well. The regional unemployment rates remain relatively low and the regional per capita incomes remain higher than the U.S. average. Office vacancy rates remain lower than the region, which experts believe are favorable economic indicators. A major local employer, the federal government, remains relatively stable for this employment sector. Select demographic charts following support the generally positive outlook for the Washington Metropolitan region and its economy.

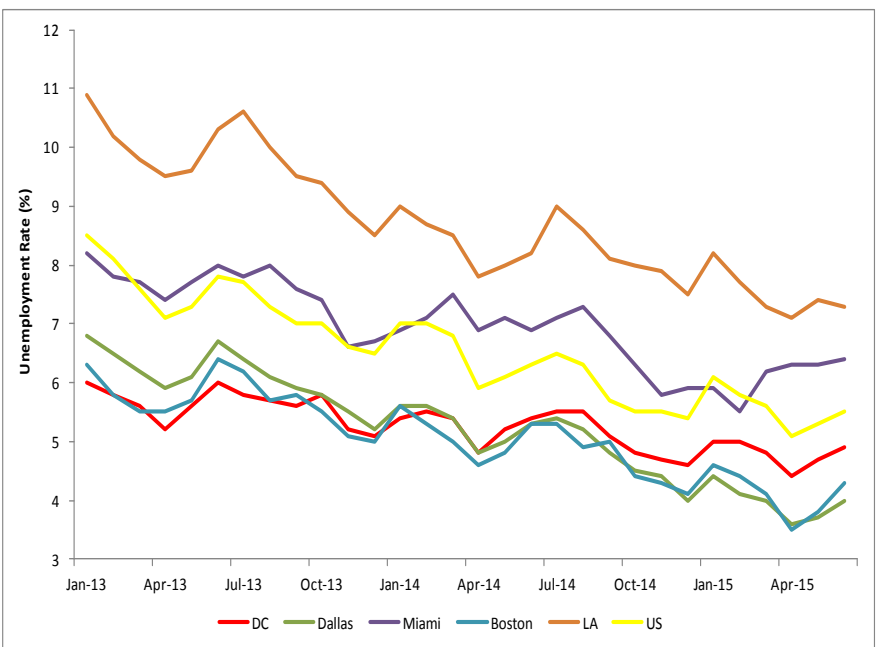
As the largest job center in the DC Metropolitan region, DC can be impacted by economic declines. However, impacts are tempered by the relatively stable federal employment enjoyed by the nation's capital.

DC Per Capita Income is Higher than U.S. Average



Source: Bureau of Labor Statistics

DC Unemployment Rate in the Region Remains Relatively Low

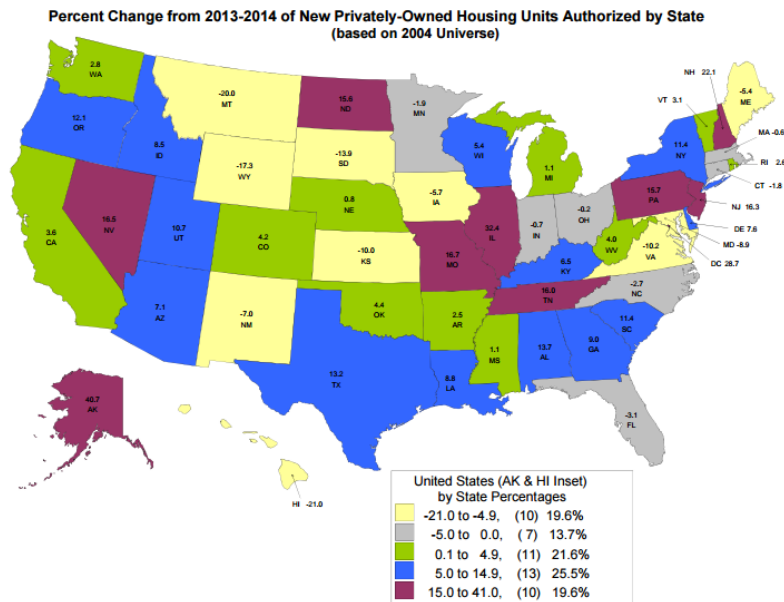


- The scale on the left side of the chart shows personal income per capita which applies to the columns in each year for DC and the U.S.
- The scale on the right side of the chart shows the ratio of DC income to U.S. income which is reflected by the line in the chart

Low commercial office vacancy rates and uneven growth in housing permits throughout the region provide mixed signs for the regional economy.

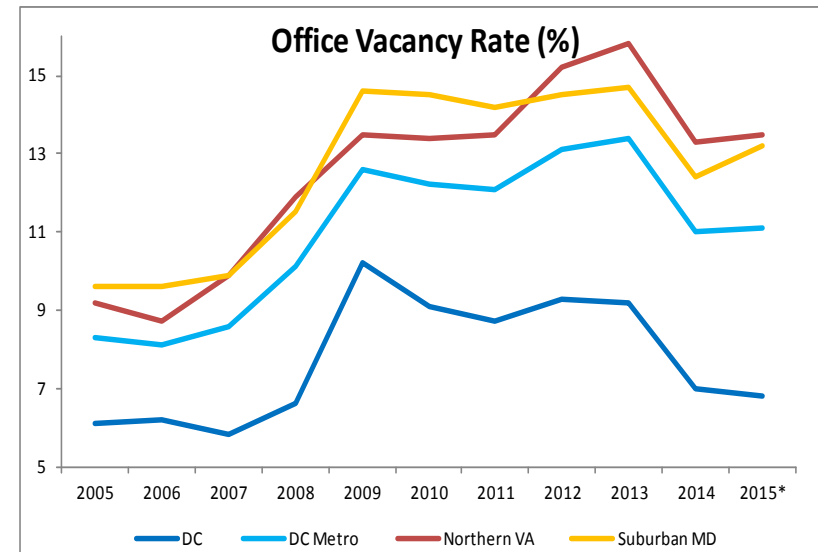
**2013 – 2014
DC Growth in Housing-Permit Issuance
at Par with the Rest of U.S.**

**DC Office
Vacancy Rates
Lower Than The Region**



Source: US Census Bureau

- DC's performance is driven by federal government growth and associated industries, supporting regional growth and diversification



* As of March 2015

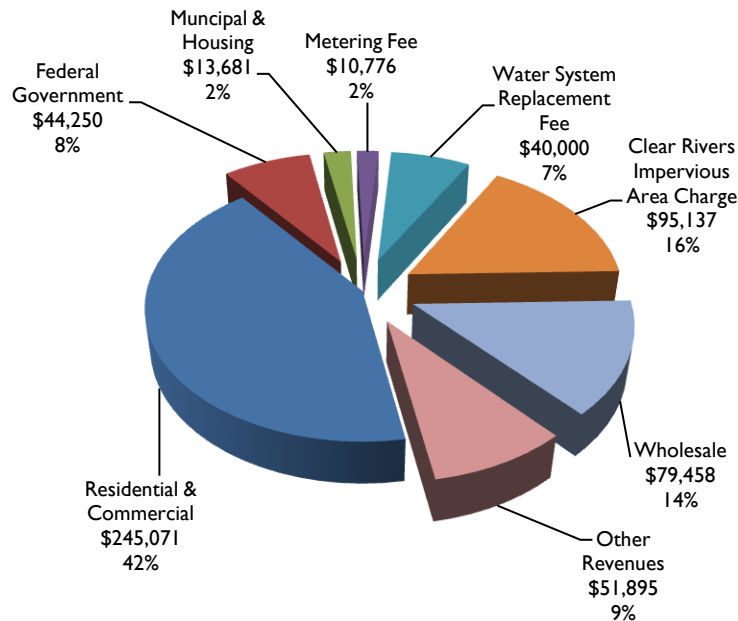
Source: District of Columbia Office of Chief Financial Officer

- The region's residential housing and office markets have weathered the economic climate relatively well compared to neighboring states

The regional economic indicators are positive according to the George Mason Center for Regional Analysis, with general job growth throughout the region, strong incomes, and unemployment below the national level. These factors coupled with stable consumption and the financial strength of some of the major AAA rated customers helps to ensure the financial success of DC Water.

The DC Water service area includes highly-rated customers

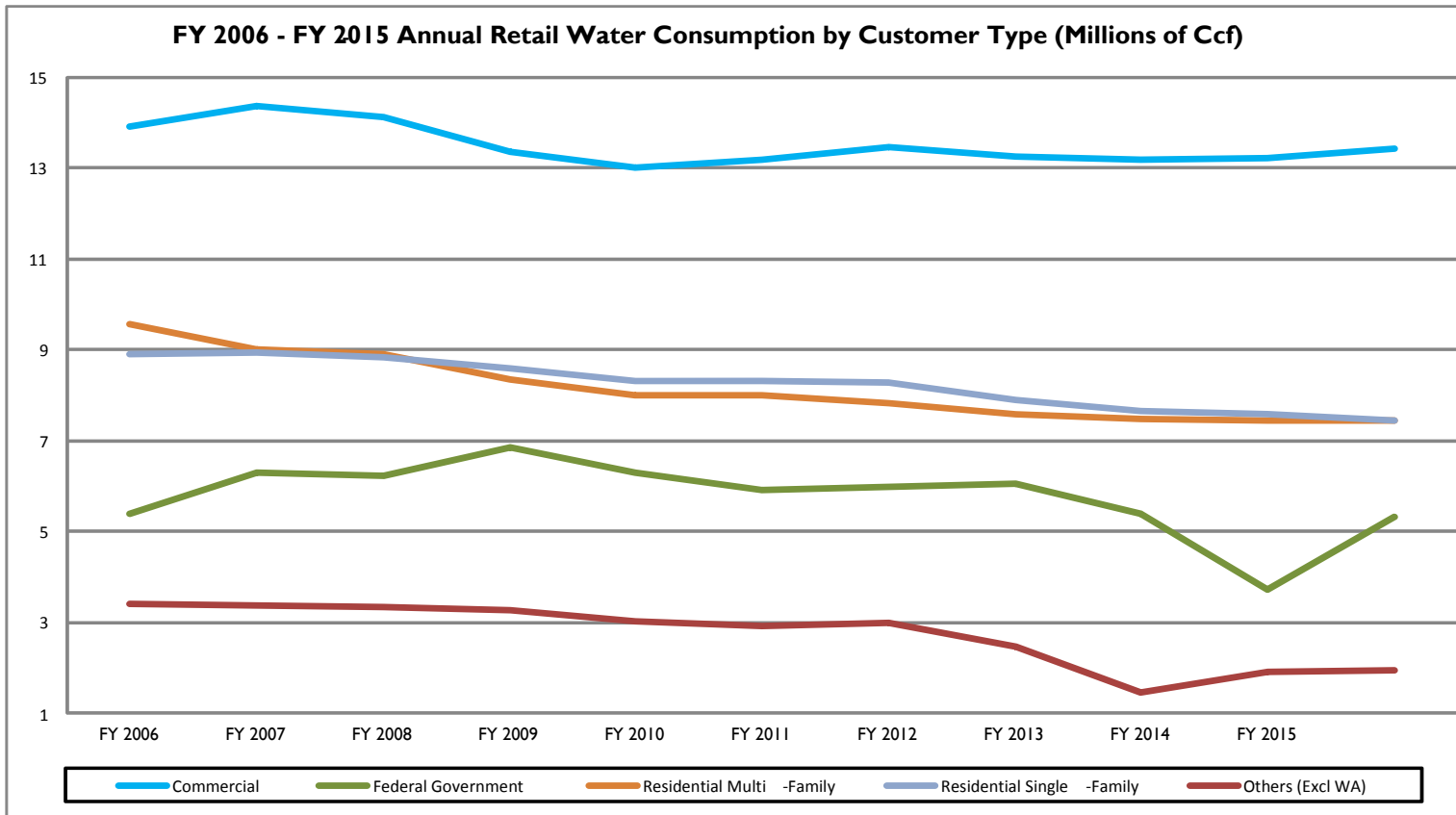
- ❑ About 21.3% of the projected FY 2016 revenues come from “AAA” rated entities and are received in advance of service:
 - Federal Government
 - Fairfax County
 - Washington Suburban Sanitary Commission
 - Loudon County Sanitation Authority
- ❑ An additional 2.4% of revenues come from the District of Columbia which is rated “AA-”



Media reports reference the service area’s economic strength

- ❑ “The Beltway’s enormous base of highly educated workers has attracted technology and business-services firms to the city ... along with a number of corporate headquarters looking to be close to Capitol Hill. The “upside resides in the highly skilled and well educated labor force,” said a report by Delta Associates, a local real-estate analytics firm.” The New York Magazine, February 12, 2015
- ❑ “According to ... D.C.’s Office of Revenue Analysis — the private sector added 78,000 jobs in D.C. between 2005 and today ... As a result ... the market value of taxable property has risen from 51 to 53 percent.” Washington Business Journal, August 11, 2015
- ❑ “Overall, the District is still gaining population and was up 1.5 percent in 2013-14, to 658,893 residents. (In 2010 it was 601,723.) And there is some good news on the job front; while D.C. has been losing federal jobs, it added private-sector jobs each of the past four years, for a gain of 54,500. The region added 62,000 jobs in the 12 months ending in April, well above average.” The Washington Post, July 17, 2015

Customer Demand: A reasonable degree of accuracy in forecasting water demand is important for sound financial planning and rate-setting. DC Water has typically assumed an annual reduction in Water demand of one percent in line with a ten year historic average. The FY 2006 – FY 2015 actual is close to the longer term experience, averaging annual aggregate demand decline of 1.9 percent. The FY 2016 – FY 2025 Financial Plan assumed retail water consumption decline of one percent over FY 2015 and conservation of one percent in FY 2016 and onwards. We believe that this conservative estimate is in line with the financial policies and assures revenue sufficiency for the Authority.



FY 2006 - FY 2015 usage shows an average annual rate of change in aggregate demand of -1.8%, excluding Washington Aqueduct. FY 2015 consumption increased by 5.0%, mostly due to increase in consumption for Federal Government. Excluding Federal Government, FY 2015 consumption increased by 0.3%. FY 2006 – FY 2015 average annual rate of change in demand for the customer classes: Commercial -0.7%; Federal Government: -1.8%; Multi-Family: -2.1%; Single Family: -2.0%; and Other (include Exempt, DC Housing Authority, DC Municipal Government, and DC Water): -6.0%



OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section III FINANCIAL PLAN



THE DC WATER TEN-YEAR FINANCIAL PLAN PROVIDES A STRONG FINANCIAL FRAMEWORK TO SUPPORT IMPLEMENTATION OF THE BOARD STRATEGIC PLAN

Vision

To be a world-class water utility

Mission

Exceed expectations by providing high quality water services in a safe, environmentally friendly, and efficient manner.

Values

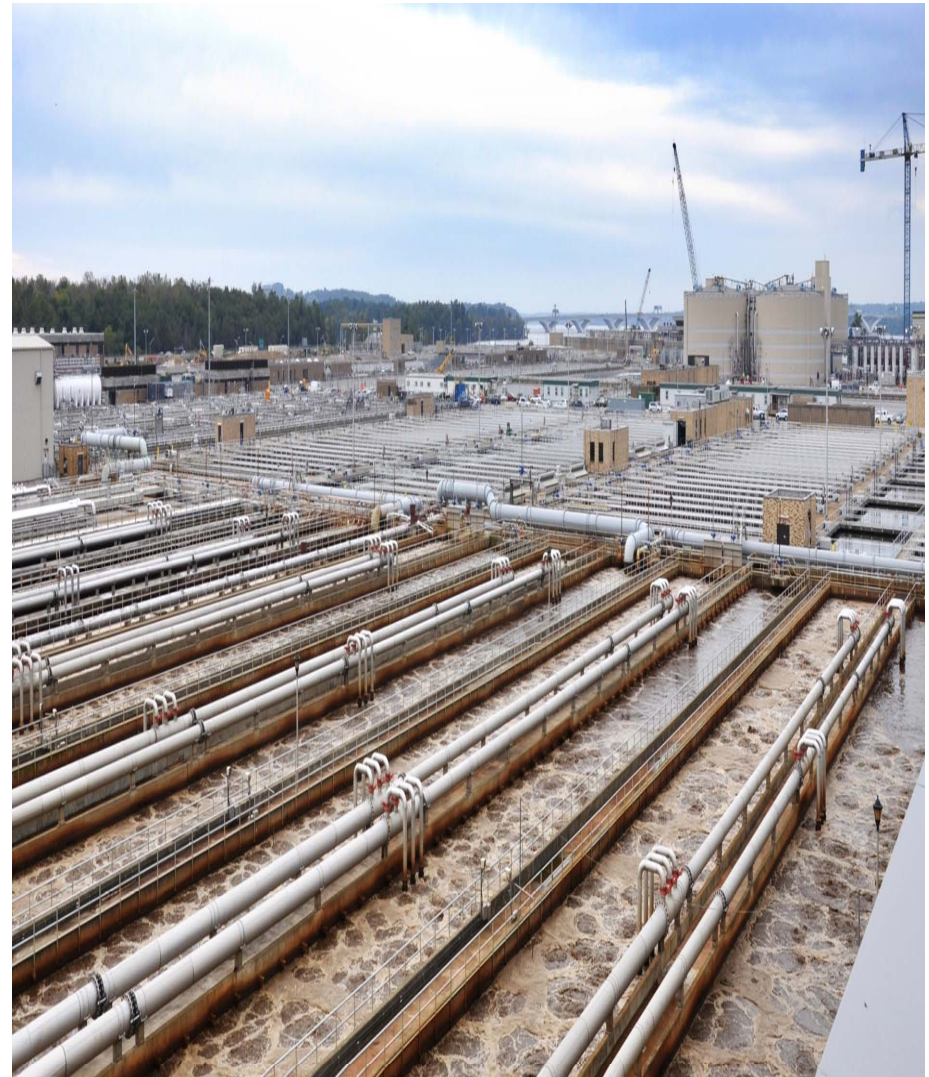
- Respectful, serve with a positive attitude, courtesy, and respect that engender collaboration and trust
- Ethical, maintain high ethical standards, accountability, and honesty as we advance the greater good
- Vigilant, attend to public health, the environment, quality, efficiency, and sustainability of our enterprise
- Accountable, address challenges promptly, implement effective solutions, and provide excellent service as a committed team

Goals

The goals represent the core strategies that DC Water will pursue. The Board and Executive Management believe that they are essential to the achievement of the mission to become a world-class water utility

- Develop, maintain and recruit a high performing workforce
- Collaborate locally, regionally, and nationally
- Increase Board focus on strategic direction
- Enhance customer/stakeholder confidence, communications, and perception
- Assure financial sustainability and integrity
- Assure safety and security
- Consider DC Water role in drinking Water Treatment
- Optimally manage infrastructure
- Enhance operating excellence through innovation and adoption of best practices

Note: DC Water Strategic Plan adopted by the DC Water Board of Directors on March 7, 2013.



BLUE HORIZON 2020

Blue Horizon **2020** serves as a blueprint for future decision-making and provides a structure through which annual reviews can be accomplished to assure that the goals and objectives retain their relevance over time. By laying out a course of action, this plan represents a disciplined process for making fundamental decisions and shaping DC Water's future.




The plan represents the collaboration of the Board of Directors, Executive Management, and the management team, as well as input from key external stakeholders. The plan is designed to be a lasting framework, although updates should be made to goals, objectives, and initiatives as the organization moves forward and circumstances change.

This plan contains the DC Water vision, mission statement, values, goals, objectives, and initiatives. It addresses DC Water's current challenges and helps ensure continued success in operations and management of resources and assets.

DC Water's vision describes the desired future state and guides the organization toward the future, while the mission of the utility describes the purpose of the organization and its role within the service area. Values articulate the deeply-held beliefs, norms, and qualities of the utility, and are the basis from which each DC Water staff member should operate.

FOCUS AREAS

The strategic plan, and the accompanying strategic framework, is the direct result of evaluation and analysis of the elements of the environmental scan and the needs of key stakeholders represented by the DC Water Board. Early in the process, three key themes emerged, which are embodied in Blue Horizon **2020**. These have been called focus areas and are:

 <p>LEADERSHIP DC Water will advocate and lead local, regional, and national collaborations, while internally developing the workforce of the future.</p>	 <p>VALUE DC Water will be recognized for the value it delivers by protecting public health and the environment, supporting community sustainability, and providing for economic vitality.</p>	 <p>INNOVATION DC Water will achieve international prominence in development and adoption of science, technology and processes in support of a culture of innovation.</p>
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Overview

DC Water's strong financial performance and its success in achieving and maintaining strong bond ratings has been primarily due to the annual development of and adherence to a ten-year strategic financial plan. In September 2015, Standard and Poor's Ratings Services, Moody's Investors Service and Fitch Ratings reaffirmed their current AA+, Aa2 and AA ratings, respectively, on DC Water's senior lien bonds. This financial plan serves as one of management's key tools to monitor progress in meeting financial goals and to proactively address future financial and operational issues. During FY 2015, DC Water met or exceeded the goals set by Board policy and the FY 2015 – FY 2024 ten-year plan. This budget includes DC Water's sixteenth comprehensive ten-year financial plan, covering FY 2016 – FY 2025.

The necessity of a ten-year financial plan is clear:

1. DC Water operates under a regulatory and capital project-driven environment that requires a longer term ten-year planning horizon. In order to provide our customers with the best service possible and with gradual and predictable rate increases, DC Water must plan for all projects on a long-term and integrated basis, including both capital and operating requirements. A five-year, capital-only financial plan would insufficiently prepare DC Water to address the major regulatory, operational and capital project issues that will impact service, operations, and rates over the next five to ten years.
2. In accordance with Board policy, DC Water sets rates so that each customer is charged for the actual cost to provide each service, rate increases are implemented transparently and predictably, utilizing all available options to mitigate future customer impacts. Since proposed future rate increases are primarily driven by financing of DC Water's capital program and full utilization of the rate stabilization fund, the development of a ten-year financial plan allows DC Water to meet these key goals.
3. The Board has directed DC Water management to undertake internal improvements and investments that will significantly lower operating costs over a ten-year period. A ten-year plan is required to bridge current operations and related capital and operating budgets with these longer term cost reduction goals.

Board policies, strategic plan, priorities and guidance in several key financial areas drive the development of the FY 2016 – FY 2025 financial plan. Given DC Water's substantial borrowing needs over the next ten years, adherence to these Board policies is crucial in order to cost-effectively access the capital markets and retain our credibility with customers and regulators.

- **DEBT SERVICE COVERAGE** – DC Water will set rates and develop operating and capital budgets that ensure **senior debt service coverage of 140 percent**
 - This coverage level exceeds DC Water’s bond indenture requirement of 120 percent senior debt service coverage
- **CASH RESERVES** – DC Water will maintain **cash reserves equivalent to 120 days of budgeted operations and maintenance expenses with the objective of maintaining at least \$125.5 million** in operating reserves.
- **PAY-GO FINANCING OF CAPITAL** – DC Water will finance a portion of its capital program on a **pay-go basis from cash balances that exceed operations requirements or restricted use.**
- **RATE-SETTING POLICIES**
 - Rates that, together with other revenue sources, **cover current costs and meet or exceed all bond and other financial requirements** as well as goals set by the Board
 - Rates that yield a **reliable and predictable** stream of revenues, taking into account trends in costs and in units of service
 - Rates based on **annually updated forecasts of operating and capital budgets**
 - Rate structures that are **legally defensible**, based on objective criteria, **and transparently designed**
 - Rate structures **that customers can understand** and DC Water can **implement efficiently and efficaciously**
 - Rates increases, if required, are implemented **transparently and predictably.**

To the extent annual revenues exceed costs, the Board’s policy will continue to utilize all available options to mitigate future customer impacts and annual rate increases, including transferring some or all of such excess funds to the Rate Stabilization Fund.

- **RATE STABILIZATION FUND** - Once DC Water achieves its **required level of cash reserves**, a **rate stabilization fund** will be established **to avoid “rate shock.”** Based on favorable financial performance in FY 2015, the balance in the RSF was \$32.45 million.

Financing and Reserve Policies

In FY 2004 and again in FY 2008, the Board completed a review of its existing financing policies, reaffirming the core policies. Two modifications were made to the reserves policy: 1) Changing the timing of when DC Water is required to meet its overall operations and maintenance reserve requirement from September 1 to an average daily balance basis, resulting in a more conservative calculation; and 2) revising the indenture-required renewal and replacement reserve requirement from two percent of original plant in service to \$35 million, with a requirement to revisit this reserve level every five years in conjunction with the indenture-required system assessment prepared by DC Water’s independent rate consultants. The assessment was last performed in 2013.

In FY 2013, the Board adopted further revisions which modified the operating reserve policy and under Resolution #13-57 revised the DC Water's Statement of Financial Policies as follows:

1. DC Water will maintain financial practices and policies that result in high quality investment grade bond ratings so as to ensure the lowest practical cost of debt necessary to finance DC Water's long-term capital program.
2. DC Water will maintain strong levels of operating cash reserves, equivalent to 120 days of budgeted operations and maintenance costs, calculated on an average daily balance basis, with the objective of maintaining at least \$125.5 million in operating reserves. The annual reserve amount will be formally approved by the Board as part of its annual approval of the operating and capital budgets and ten-year plan. The operating reserve requirement will be evaluated every five years by DC Water's independent rate consultant in conjunction with the Indenture-required system assessment.
3. The operating reserve will, at a minimum, include any reserve requirements contained in DC Water's Master Indenture of Trust, (the "Indenture"), excluding any debt service reserve funds and the rate stabilization fund, as follows:
 - *Operating Reserve* – equivalent to sixty days' operating costs
 - *Renewal & Replacement Reserve* - \$35 million. This reserve requirement will be in conjunction with the Indenture-required system assessment
4. DC Water will maintain senior debt service coverage of 140 percent, in excess of DC Water's indenture requirement of 120 percent. Senior debt service coverage will be calculated in accordance with DC Water's indenture.
5. In general, DC Water will utilize operating cash in excess of the Board's reserve requirement and any other significant one-time cash infusions for capital financing or for repayment of higher cost debt.
6. DC Water will whenever possible use the least costly type of financing for capital projects, based on a careful evaluation of DC Water's capital and operating requirements and financial position for each year.
7. DC Water will attempt to match the period of debt repayment, in total, with the lives of the assets financed by any such debt.

Pay-As-You-Go Capital Financing Policy

1. The CEO/General Manager will include in the annual ten-year financial plan, developed as part of the annual operating budget process, a separate schedule showing projected annual cash balances and planned annual pay-go financing of capital projects.
2. The planned annual pay-go financing will be formally approved by the Board of Directors as part of its annual approval of the ten-year financial plan, operating and capital budgets.
3. At any time during the fiscal year, the CEO/General Manager may use pay-go financing for capital projects, as approved by the Board of Directors.
4. During the fourth quarter of each fiscal year, the CEO/General Manager (or designee) will conduct an analysis of DC Water's financial performance.
5. The CEO/General Manager will report the results of this analysis and his recommendations, including updated projected annual cash balances and annual pay-go financing, to the Finance and Budget Committee no later than its regularly scheduled meeting in July, for recommendation to the Board for action at its September meeting.

Cash Management and Investment Policies

The Board has adopted a “Statement of Investment Policy”. This policy is designed to ensure the prudent management of Authority funds, the availability of operating and capital funds when needed, and an investment return competitive with comparable funds and financial market indices. The investment portfolio shall be managed to accomplish the following hierarchy of objectives:

1. Safety
2. Liquidity
3. Return on investment
4. Diversity

The current Investment Policy is available on-line at www.dewater.com.

Debt Policy and Guidelines

The purpose of DC Water’s Debt Policy and Guidelines (the “Debt Policy”) is to provide DC Water officials and staff a comprehensive guide to DC Water’s issuance and use of debt to fund capital projects or to refund/refinance/restructure outstanding debt. The advantages of adopting and adhering to a clear, concise and comprehensive debt policy are:

- Enhancing the quality of decisions
- Documenting the decision-making process
- Identifying objectives clearly to facilitate staff implementation
- Demonstrating a commitment to Long-Term financial planning objectives that result in a sound financial position
- Enhancing the positive assessment of credit quality by the bond Rating Agencies in order to maintain and improve DC Water’s high credit ratings
- Integrating the Debt Policy with the operating and capital budgets, the multi-year Capital Improvement Program (CIP), multi-year Financial Plan and other financial policies

The financial policies outlined in this document, in most cases, impose higher standards than the legal requirements contained in DC Water’s Master Indenture of Trust dated as of April 1, 1998 as amended and supplemented from time to time (the “Indenture”) and other legal requirements.

The current Debt Policy and Guidelines is available on-line at www.dewater.com.

During FY 2015, DC Water met or exceeded the financial goals set out by the Board and the FY 2015 – FY 2024 financial plan. Senior debt service coverage, reserve levels, and budget performance met or surpassed Board policies, as discussed in more detail below:

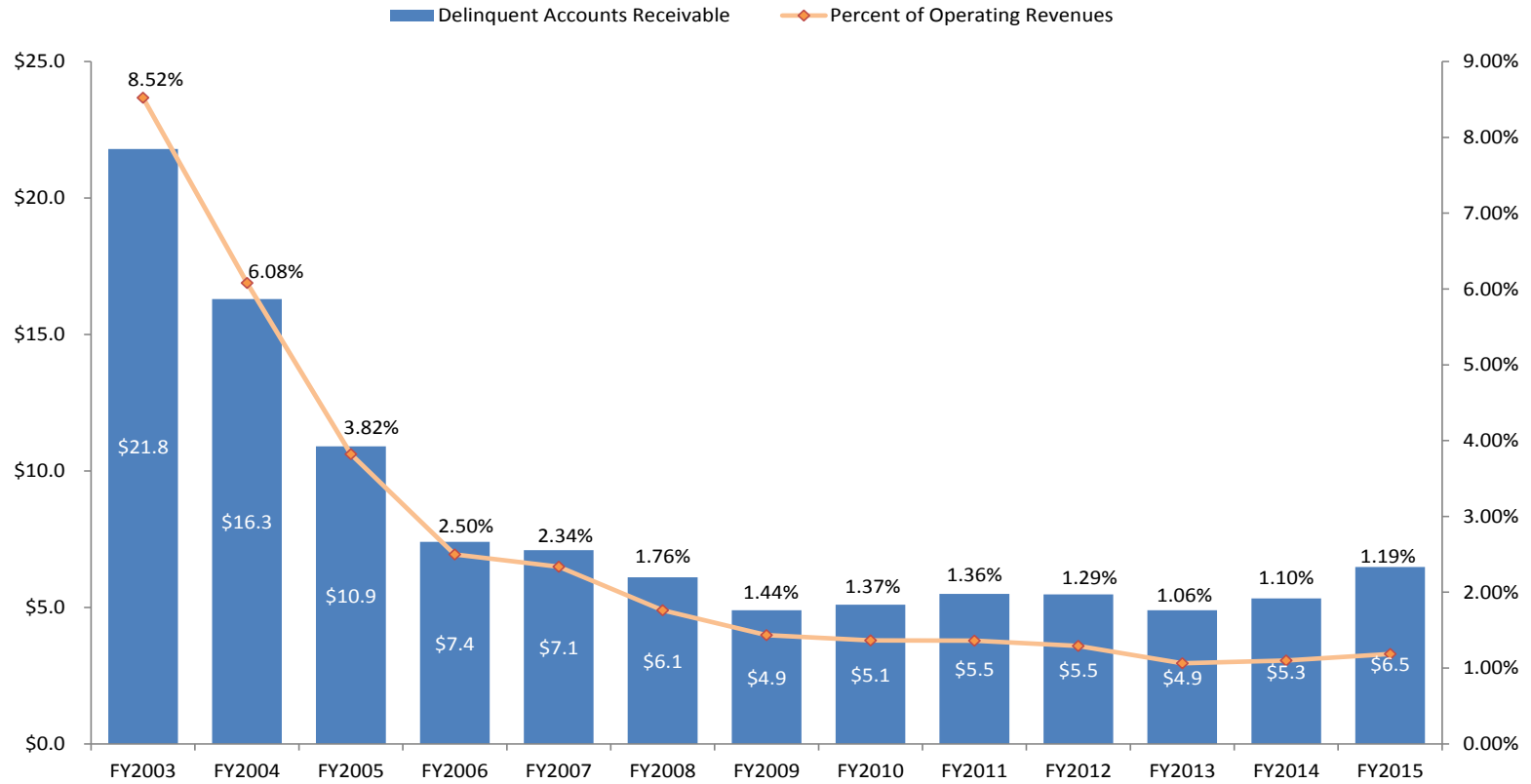
- DC Water Board policy requires senior debt service coverage of at least 140 percent; greater than the indenture requirement of 120 percent. **DC Water's senior debt service coverage in FY 2015 was at 444 percent**, while maintaining the Board's rate setting and financial policies. The senior debt service coverage is expected to increase to 582 percent by FY 2025 despite increase in capital spending and related debt issuance; the coverage is above the Board requirement of 140 percent. Subordinate debt service coverage, which includes DC Water's subordinated lien revenue bonds and Jennings Randolph Reservoir debt, was at 226 percent in FY 2015. DC Water is required to have 100 percent coverage of subordinate debt service. Combined debt service coverage was at 176 percent in FY 2015.
- In October 2014, DC Water closed on its Series 2014C Public Utility Subordinate Lien Revenue Refunding Bonds in the amount of \$377.8 million. The bonds were issued to refund a portion of the Series 2007A, 2008A, and 2009A and to convert the Series 2012 B-1 bonds to fixed rate bonds.
- In September 2015, Standard and Poor's Ratings Services, Moody's Investors Service and Fitch Ratings reaffirmed their current ratings of AA, Aa2 and AA respectively.
- **COMMERCIAL PAPER:** These notes issued are considered subordinate debt under the Master Indenture of Trust. DC Water's commercial paper is issued in increments with maturities less than 270 days. The Board approved the commercial paper program in early FY 2002; proceeds from the sale of the notes are used for interim bond financing, short-term financing for capital equipment and certain taxable costs for the Washington Aqueduct. Each new bond issuance is evaluated to determine the most cost effective way of reducing the amount of taxable commercial paper. Normal market conditions for commercial paper carry significantly lower interest rates than long-term debt. Two series of notes have been issued under the commercial paper program: the tax-exempt Series B CP Notes in an aggregate principal amount not to exceed \$100,000, and the taxable Series C CP Notes in an aggregate principal amount not to exceed \$50,000. To provide liquidity and credit support for the Commercial Paper Notes, the Authority obtained irrevocable, direct-pay letters of credit issued by Landesbank Hessen-Thüringen Girozentrale, New York Branch which currently expires on May 15, 2020.
- **EXTENDABLE MUNICIPAL COMMERCIAL PAPER (EMCP):** The addition of the EMCP program in the amount of \$100 million provides diversification of the variable rate products available for interim financing needs. EMCP does not require a supporting bank letter of credit but relies on DC Water's liquidity to address any failed re-marketing of the EMCP. The initial placement is typically for 90 – 180 days and in the event of a failed re-marketing due to poor market conditions, DC Water has 3 – 6 months to address payment with a maximum number of days from the initial issuance of 270 days.
- **DC Water utilized \$7.5 million of the rate stabilization fund (RSF) in FY 2015** and contributed \$17.5 million to RSF - The Rate Stabilization Fund's ending balance for FY 2015 was \$32.45 million.

- **DC Water continued its strong operating budget performance in FY 2015** - For FY 2015, actual cash receipts were higher than the revised budget by \$3.5 million, or 0.6 percent. Actual operating expenditures were \$69.7 million or 13.5 percent lower than budget. DC Water experienced lower O&M due to underspending in contractual services and chemicals mainly attributable to the new digester project which became operational in FY 2015. Lower expenditures for personnel services were consistent with expectation and reflect increased hiring efforts. Underspending in debt service was attributable to lower interest rates and delayed issuance of additional debt until FY 2016 which was later than originally planned. Pilot expenditure was based on current MOU with the District. Furthermore, because of favorable O&M expectations there was no need to utilize the Cash Financed Capital Improvements, which was established to cover emergency financial needs.
- **The Clean Rivers Impervious Surface Area Charge (CRIAC) was implemented in May 2009** to recover the cost of the Combined Sewer Overflow Long-Term Control Plan (CSO LTCP), also known as the DC Clean Rivers Project. In FY 2011, a six-tiered rate structure was successfully implemented for all residential retail customers to better reflect the impacts of various size residential properties. The twenty-year CSO LTCP, whose terms are outlined in a consent decree executed in March 2005, exclusive of the nine-minimum controls programs are projected to cost \$2.3 billion. See “Combined Sewer Overflow Long-Term Control Plan” in Section IV, Rates and Revenues for additional details on the projected rate impact of the plan.
- DC Water implemented a retail water and sewer rate increase of 7.5 percent in FY 2015 to recover increased revenue requirements of \$17.0 million. Even with this change, an additional \$7.5 million in revenues was required and available due to the existence of the rate stabilization fund. As noted earlier, this fund helps to mitigate rate shock and reduces needed retail rate increases. In addition, the Board approved a retail water and sewer rate increase of 6.5 percent effective October 1, 2015, and a decrease in the PILOT due to a new PILOT MOU signed with the District on September 4, 2014. ROW fees remain same as in FY 2015. The changes in PILOT and ROW fee are made to recover the full costs of these fees charged to DC Water by the District of Columbia government. The rate changes are mainly due to the increase in debt service cost to finance the capital improvement program.
- For the fifteenth consecutive year, DC Water received the Government Finance Officers’ Award for Distinguished Budget Presentation for its FY 2015 budget submission. DC Water also received its eighteenth unqualified audit opinion for the fiscal year ended September 30, 2014 and received the eighteenth GFOA Certificate of Achievement for Excellence in Financial Reporting.
- In FY 2015, DC Water successfully renewed all of the Authority’s operations insurance policies at essentially the same terms at 4.7% higher costs than previous year. DC Water’s coverage is generally comparable to expiring.
- DC Water completed its eleventh year of its rolling owner-controlled insurance program (ROCIP), sixth year of ROCIP II, third year of ROCIP III and is moving forward with ROCIP IV. DC Water procures general liability and workers’ compensation insurance coverage for the majority of its construction contractors. The result is substantially higher insurance coverage levels for all contractors and significant cost savings. At the end of FY 2015, 65 projects and 393 contractors were enrolled in the expired ROCIP I program, 47 projects and 689 contractors were enrolled in the ROCIP II program and 43 projects and 464 contractors were enrolled in the ROCIP III program. Preliminary savings are estimated in the range of \$4 to \$5 million for ROCIP I, approximately \$6 million for ROCIP II and \$12 million for ROCIP III. Given the success of ROCIP I, II and III, DC Water is again moving forward with ROCIP IV in fiscal year 2016. ROCIP II and III are three year insurance programs that support an

estimated \$1.2 billion and \$942 million of planned construction respectively. A major reason for the cost savings is the implementation of a uniformly strong safety program for all contractors.

- DC Water revenue collection rates rival high levels of performance achieved by investor-owned water utilities. Delinquent accounts receivable represents less than 2 percent of Total Operating Cash Receipts by:
 - Automated meter reading and monthly billing continue to contribute significantly to the reduction of unpaid bills. These processes further allow meter reading staff to focus on other business needs i.e. maintenance of the meters
 - The gradual decoupling of revenues from volumetric based revenues to more predictable relatively fixed revenue sources increases our ability to negotiate payment plans with customers based on expected future bills
 - Continuous updating of the customer information systems to allow the integrity of the data to be maintained, resulting in better credit decision making
 - Maintain the predictive dialer outbound calls to remind customers to pay before balances become unmanageable
 - Adhering to payment plan policies that balance managing arrears and keep a vital service on for customers
 - Continuous placement of property liens when an account balance exceeds \$200 and is more than 60 days past due
 - Getting Executive and Board support for credit policies and developing assistance programs such as the customer assistance program (CAP) and SPLASH program for low income customers. The CAP discount program administered by DOEE provided discount to 4,498 customers representing \$1,207,986 million as of September 30, 2015
 - SPLASH – This is the program that provides assistance to needy customers as well. It operates solely on contributions from Customers, the community and DC Water employees. DC Water pays all administrative fees to Greater Washington Urban League (GWUL), who administers the program. For FY 2015, DC Water received \$115,684 in contributions and assisted 351 customers as of September 2015. CAP and SPLASH together provide approximately \$1.3 million per year in assistance to approximately 4,900 low income households to help make their bills more affordable
 - Continuous focus is placed on the top 75 accounts with the largest balances by making outbound calls to negotiate payments and assess risk.

DELINQUENT ACCOUNTS RECEIVABLE (\$'000's)



- Graph represents Delinquent Accounts Receivable as percent of Total Operating Cash Receipts (includes Retail, Wholesale and Other)

General Principles of Affordability for Low- Income Customers Policy

On September 4, 2014, The General Principles of Affordability for Low-Income customers was approved. It is the policy of the Board of Directors of DC Water in setting retail rates, to follow the General Principles of Affordability for Low-Income Customers articulated herein:

1. Consideration of rate impacts on low-income customers;
2. Exploration of affordability alternatives for low-income customers; and
3. Development of a more innovative rate structure, the goal of which is to reduce the economic burden on low-income customers at the earliest practicable date consistent with the Board's need to gather sufficient data to support any rate structure chosen.

DC Water reviews the equity and sufficiency of its rates and rate structures periodically through various costs of service studies. In FY 2015, a Cost of Service Study was conducted by the Independent Financial Consultants which provided several recommendations:

Additional Alternative Fees and Charges:

1. Customer Class-Based Volumetric Rates – Rate differentiation based on the peaking demands of each customer class (residential, multi-family and non-residential).
2. Lifeline Rate – A lifeline rate for first 4 Ccf of Single Family Residential (SFR) water use to reflect baseline usage by residential customers without peaking costs. The lifeline rate provides an economic benefit to low-volume Residential customers, while spreading the cost of peaking to high-volume Residential customers.
3. Water System Replacement Fee (WSRF) – In Fiscal Year 2016, DC Water will modify its existing rate structure and implement a new meter-based Water System Replacement Fee (WSRF) in order to recover the cost of the 1% renewal and replacement program for water service lines. It is anticipated that the new WSRF will generate \$40 million per year. DC Water's low income CAP customers would receive a 100% credit for this fee.
4. System Availability Fee (SAF) – DC Water to propose a new System Availability Fee (SAF). A one-time fee assessed to a property owner of any premises, building or structure to recover the cost of system capacity put in place to serve all metered water service and sanitary sewer connections and renovation or redevelopment projects that require an upsized meter service connection to the District's potable water system. The fee is assessed based on the peak water demand, excluding fire demand, for new meter water service connection and renovation or redevelopment projects that increase the peak water demand and associated SAF meter size for the property.

5. Based on the 2015 Cost of Service Study, DC Water has adopted several changes to its existing retail rate structure starting in Fiscal Year 2016. These changes are designed to better align the Authority's revenues and expenditures by establishing customer class-based volumetric water rates based upon peaking factors, to create a more progressive rate structure for its residential customers by establishing lifeline water rates which discount core consumption, and to fund the authority's water main replacement program by establishing a monthly, fixed Water System Replacement Fee.
- In 2015, the Independent Financial Consultants performed a cost of service study (COS) to determine the costs of providing fire protection service to the District. DC Water provides Fire Protection Services to the District, including but not limited to the delivery of water for firefighting, inspection, maintenance and upgrading of public fire hydrants in the District of Columbia. The consultants compared DC Water costs with the revenues received from the District for fire protection services. Projections of DC Water costs were developed for FY 2014 – FY 2017. As per terms of the 2013 MOU and based on the results of the 2015 COS, Fire Protection Service fee was established at \$10.8 million for fiscal years FY 2015, FY 2016 and FY 2017. This fee is \$3.9 million higher than the FY 2014 fee of \$6.9 million.
 - A new PILOT MOU was signed between DC Water and the District of Columbia on September 4, 2014, which reduced the annual PILOT payment. As per agreement, the PILOT of \$15.3 million for FY 2015 would be escalated by 2 percent per year. The agreement will be effective till September 30, 2024.
 - On October 07, 2014, DC Water and the District reached an agreement on the ROW terms and conditions, which provides that DC Water will continue to make payments totaling \$5.1 million annually to the District for FY 2015 – FY 2024.
 - DC Water periodically reassesses its policies every five years regarding the operating reserve requirement. The Independent Financial Consultants conducted the study to consider the appropriate level of its Total Operating Reserves for FY 2013 and subsequent years. The Independent Financial Consultants recommended that DC Water maintain its current operating reserve policy to require a minimum balance of the greater of \$125.5 million or 120 days of budgeted O&M expenses.
 - DC Water Indenture of Trust requires the Authority to maintain a Renewal and Replacement (R&R) Reserve Fund. In FY 2013, the Independent Financial Consultants conducted this study to examine the reasonableness of the amount on deposit in the R&R Reserve Fund and make recommendations to the Authority for the value of the Fund for the next 5-year period of FY 2013 through FY 2017. The Independent Financial Consultants recommended that DC Water maintain its current R&R Reserve Fund policy to require a balance of \$35 million.

- With respect to Operating Reserves and Renewal and Replacement (R&R) Reserve Fund Study, the Independent Financial Consultants also recommended the following:
 - DC Water’s Operating Reserves and R&R Reserve Fund requirement be reassessed at least every five years in conjunction with the Indenture-required system assessment.
 - DC Water and its financial advisor should monitor the rating agencies assessment of the Total Operating Reserves (including the R&R Reserve Fund) on an ongoing basis. The purpose of such monitoring would be to ensure that the rating agencies remain comfortable with the level of the reserves. The Independent Financial Consultants also recommended that DC Water consider having wholesale customers provide a proportionate share of the contributions required for the R&R Reserve Fund.

Future Goals and Financial Assumptions

ALL LEGAL COVENANTS, FINANCIAL BOARD POLICIES, ACCOMPLISHMENTS AND TARGETS ARE INCORPORATED INTO THIS TEN YEAR FINANCIAL PLAN

Compliant?	Description	Legal covenant	Performance Target	FY 2015 Actual	FY 2016 Revised	FY 2017 Proposed	FY 2018 Proposed
<input checked="" type="checkbox"/>	Senior Debt Service Coverage	120%	140%	444%	462%	430%	406%
<input checked="" type="checkbox"/>	Operating Cash Reserves	N/A	\$125.5 million	160.1 million	\$140 million	\$140 million	\$140 million
<input checked="" type="checkbox"/>	Merrill Lynch 3-Month Treasury Index	N/A	25 basis points	38 basis points	34 basis points	57 basis points	57 basis points
<input checked="" type="checkbox"/>	Merrill Lynch 13-Year Treasury Index	N/A	50 basis points	48 basis points	79 basis points	103 basis points	103 basis points
<input checked="" type="checkbox"/>	Water and Sewer Rates	Revenues must be sufficient to cover: operating expenses, senior and sub debt service, amounts necessary to maintain DSRF and ORF levels, and any annual PILOT payments	Each customer will be charged for the actual cost to provide each service, and rate increases will be reliable and predictable	Future rate increases are driven by financial impact of the capital program and full utilization of the RSF; the development of a 10-year financial plan allows DC Water to meet these key goals of full cost recovery and predictability	Same as Performance Target	Same as Performance Target	Same as Performance Target
<input checked="" type="checkbox"/>	Rate Stabilization Fund (RSF)	N/A	Help to avoid spikes in rate increases for retail customers	Utilized \$7.5 million of the RSF, leaving a balance of \$32.45 million. The RSF will have a balance of \$121.45 million by the end of FY 2025	Projected at \$51.45 million at the end of FY 2016	Projected at \$51.45 million at the end of FY 2017	Projected at \$60.45 million at the end of FY 2018

The proposed FY 2016 - FY 2025 financial plan includes the resources necessary to accomplish critical financial and operational goals over the coming years, as summarized below.

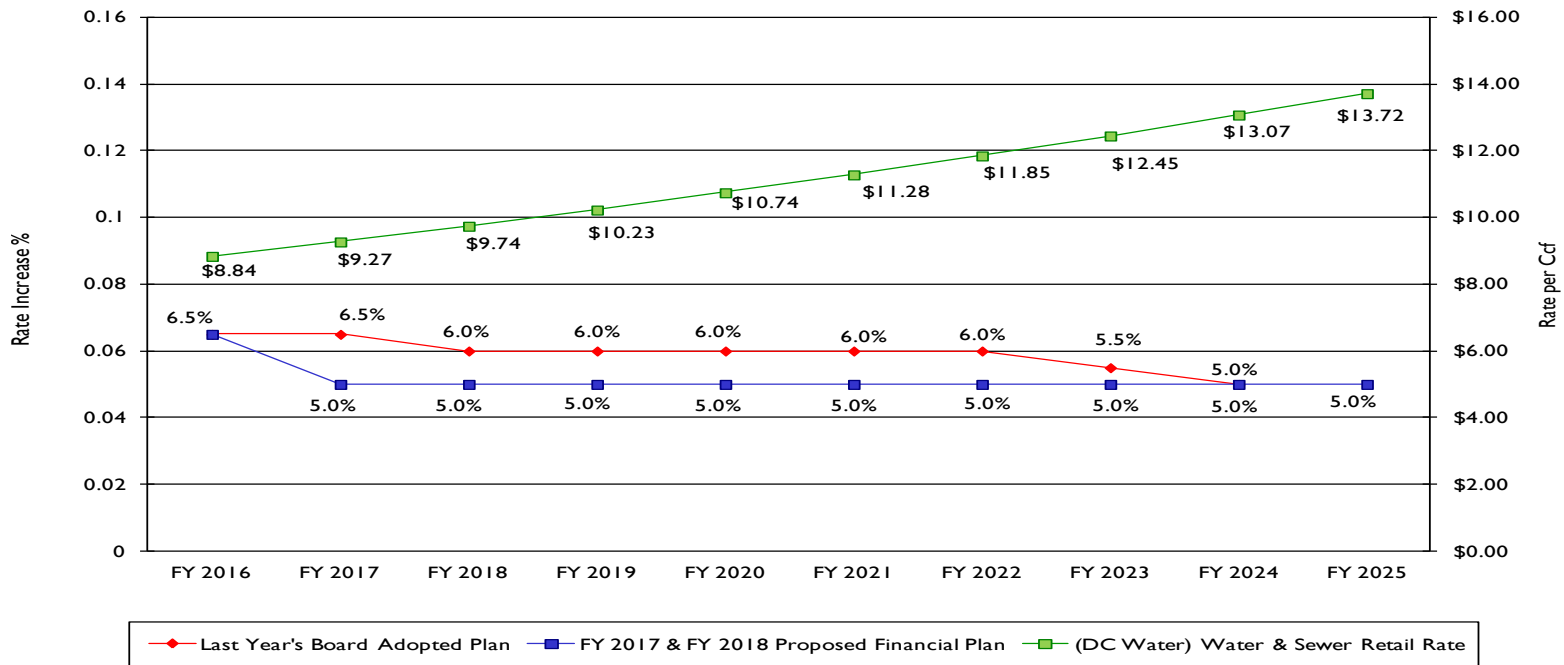
- Continue adherence to the Board's financial, investment, rate-setting and long-term planning policies
- Continue implementation of the ten-year \$3.66 billion capital improvement program
- Includes disbursements of \$1.2 billion over the ten-year planning period for Clean Rivers Project (CSO Long-Term Control Plan) exclusive of the nine-minimum controls program
- Continued exceptional financial performance, reduction in overtime, adherence to Board's customer outreach and transparency to include customer input and flexibility to meet emerging needs
- Improving Public Image: re-focus of the government relations activities to bring greater visibility to DC Water and the national need for infrastructure investment and funding; and various pilot projects to look for additional improvements to DC Water services
- Efficiency
 - Capital efficiencies through in-sourcing of engineering design, valve operations and fire hydrant maintenance
 - Organizational development and Process improvement to enhance the Team Blue activities initiated in FY 2011 and continued through FY 2015
- Enhancing security
 - New Plant logistics at Blue Plains to support large environmental capital investments
 - Establish security command center and restructuring of guard services
 - Continue to monitor and enhance cyber security protocols to ensure appropriate safeguards exist to protect data integrity and provide a safe and reliable technological infrastructure to meet business objectives
 - Enhance safety and security culture through improved communication
 - Strengthen Cyber security to protect data integrity and technology investments
- Workforce
 - Renewed culture of safety throughout the agency
 - Communication and employee empowerment (intranet, increased employee access to email)
 - Enhance management skills through training
 - Creation of cross-functional teams for safety and asset management
 - Establish baseline data for employee and internal customer satisfaction and conduct periodic progress surveys

The ten-year financial plan reflects the following major assumptions:

- Operating and maintenance expenses are projected to grow at an average annual rate of 2.6 percent, primarily due to projected inflation
- Personnel services is projected to increase to accommodate for insourcing initiatives to support the capital program
- Payment-in-lieu of taxes (PILOT) to the District of Columbia for FY 2016 will be at \$15.6 million. PILOT payment is projected to increase by 2 percent per annum in accordance with the new memorandum of understanding (MOU) signed on September 4, 2014 with the District
- According to the new memorandum of understanding (MOU) dated October 4, 2014, the Right-of-Way payment to the District of Columbia stays level at \$5.1 million
- Debt Service:
 - Interest on Variable debt assumed to be 2.50 percent in FY 2016, FY 2017 and FY 2018
 - Interest on Fixed debt assumed to be 5.50 percent in FY 2016, 5.75 percent in FY 2017 and 6.50 percent in FY 2018
 - Utilization of the Commercial Paper program / Extendable Municipal Commercial Paper (EMCP) is assumed for interim financing for bond issuance, capital equipment and Washington Aqueduct

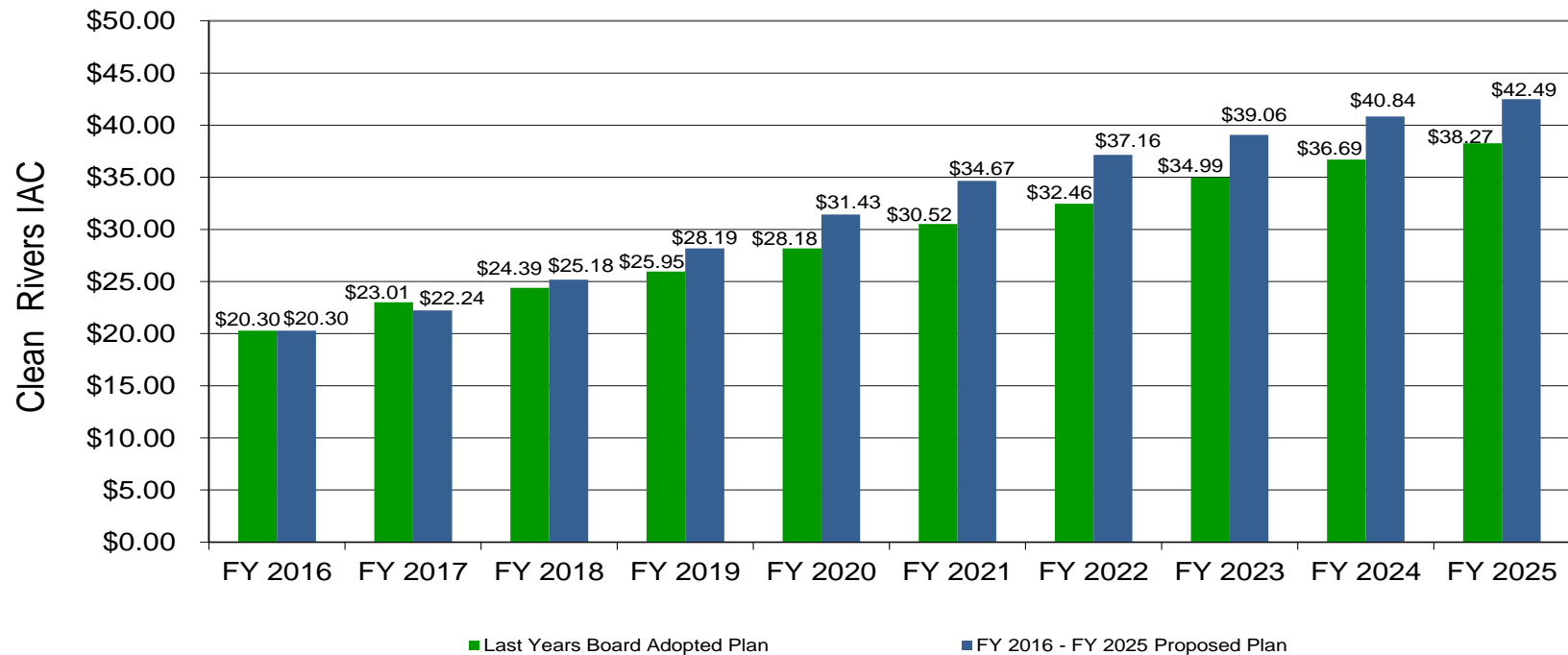
Due to these ongoing and new initiatives, from FY 2016 – FY 2025 DC Water’s water and sewer volumetric retail rates are projected to increase by \$0.43 to \$0.65 per 100 cubic feet as shown in the chart below. Cumulative rate increases would total 51.5 percent over the ten-year period compared to 61.0 percent projected in last year’s ten-year plan (FY 2015 – FY 2024).

**Projected Retail Rate Increases
FY 2016 – FY 2025**



Rates shown above reflect weighted water and sewer rates for Residential customers’ category. The proposed retail water and sewer combined rate for FY 2017 is \$9.27 per Ccf and \$9.74 per Ccf for FY 2018. In addition, the proposed increase in the combined Right-of-Way and PILOT Fees is \$0.01 per Ccf, {\$0.01 per 1,000 gallons}, in FY 2017 and is \$0.02 per Ccf, {\$0.02 per 1,000 gallons} in FY 2018 to recover the full amount for services charged to DC Water by the District. There is no increase in FY 2017 Right-of-Way Fee, which remains same at \$0.17 per Ccf (\$0.23 per 1,000 gallons). The proposed monthly Clean Rivers Project CRIAC charges for FY 2017 and FY 2018 are \$22.24 and \$25.18 respectively per ERU (Equivalent Residential Unit); an increase of \$1.94 over the FY 2016 charge and \$2.94 over the FY 2017 charge respectively.

Projected Monthly Clean Rivers Impervious Surface Area Charge Increases FY 2016 – FY 2025



- The projected charges displayed in the chart above are primarily driven by anticipated debt service costs necessary to support the twenty year Clean Rivers Project totaling \$2.6 billion federally mandated Clean Rivers Project (CSO LTCP) and the nine-minimum control program.
- The annual Clean Rivers Project IAC costs for the average Tier 2 residential customer (700 – 2,000 sq. ft. of Impervious Area) is projected to increase from \$22.24 per month in FY 2017 to \$42.49 per month in FY 2025.

The proposed rate and fee adjustments included in the FY 2016 – FY 2025 financial plan are driven by the following trends and initiatives:

- Assumed retail water consumption decline of 1 percent in FY 2016 over FY 2015 projection and conservation of 1 percent in FY 2017 and onwards.
- Increasing debt service expenditures, driven by DC Water’s \$3.66 billion capital improvement program (cash disbursements basis), which increases on average by 6.3 percent over the Financial Plan period.
- Operation and maintenance increase on average of 2.6 percent annually over ten year period.
 - Increasing operating expenditures, driven primarily by projected increases in personnel services, contractual services, chemicals, and water purchases
 - Continuation of In-Sourcing Proposals for in-house planning & design and valve operations
 - Enhanced service to the development community through improved permitting operations

Customer Assistance Programs: We continued our commitment to help improve the quality of life for those of our customers who are least able to pay, by providing relief through our customer assistance programs (CAP). Through CAP, we provide eligible customers a discount of 4 Ccf per month on their water and sewer bills. Since it began in FY 2001, participation in CAP has continued to increase. As of October 1, 2010, the Board expanded the CAP discount to include the first 4 Ccf of Payment-in-Lieu of Taxes (PILOT) and Right-of-Way (ROW) to qualifying low-income residential customers. The District Department of Energy and Environment (DOEE), administers this program for the Authority and several other utilities in the area. For FY 2015, \$1,207,986 in discount benefits was provided to 4,498 customers. Our SPLASH program customers donated an additional \$115,684 through their water bills for the benefit of those customers who needed additional help.

In FY 2016, DC Water implemented Water System Replacement Fee (WSRF). This is a fixed monthly fee set to recover the costs of the 1 percent renewal and replacement program for water service lines. The fee is based on meter size and average flow. The DC Water’s low-income CAP customer will receive 100 percent credit for this fee.

DC Water Board Approved a DC Clean Rivers Impervious Surface Area Charge Incentive Program (CRIAC) effective from October 1, 2013. This is a three year pilot credit/discount program for the DC Clean Rivers Impervious Surface Area Charge.

Revenues

The Revised FY 2016 operating receipts projection totals \$580.5 million, an increase of \$10.3 million above the approved FY 2016 receipts. The Proposed FY 2017 operating receipts total \$592.8 million, an increase of \$12.3 million over the Revised FY 2016 receipts. The Proposed FY 2018 operating receipts total \$618.7 million, an increase of \$25.9 million over the Proposed FY 2017 receipts.

COMPARATIVE OPERATING RECEIPTS FY 2016 – FY 2018 (\$'000's)

	FY 2016 Approved	FY 2016 Revised	Increase/ (Decrease)	Percent Change	FY 2017 Proposed	Increase/ (Decrease)	Percent Change	FY 2018 Proposed	Increase/ (Decrease)	Percent Change
Residential	\$ 100,337	\$ 99,037	(1,300)	-1.3%	\$ 104,665	5,628	5.7%	\$ 111,410	6,745	6.4%
Commercial	143,325	140,724	(2,601)	-1.8%	149,820	9,096	6.5%	158,913	9,093	6.1%
Multi-family	73,133	72,136	(997)	-1.4%	75,634	3,498	4.8%	79,607	3,973	5.3%
Sub-Total Residential, Commercial and Multi-family	316,795	311,897	(4,898)	-1.5%	330,119	18,222	5.8%	349,930	19,811	6.0%
Federal Government(1)	63,278	62,989	(289)	-0.5%	53,590	(9,399)	-14.9%	57,258	3,668	6.8%
District Government	13,208	15,175	1,966	14.9%	16,345	1,171	7.7%	17,853	1,507	9.2%
D.C. Housing Authority	8,080	8,083	3	0.0%	8,471	388	4.8%	8,931	459	5.4%
Transfer from Rate Stabilization Fund	-	-	-	0.0%	-	-	0.0%	-	-	0.0%
Water System Replacement Fee (WSRF)	40,000	40,000	-	-	40,000	-	-	40,000	-	0.0%
Metering Fee	10,776	10,776	-	0.0%	10,776	-	0.0%	10,776	-	0.0%
Total Retail	452,137	448,920	(3,217)	-0.7%	459,301	10,381	2.3%	484,748	25,447	5.5%
IMA Wastewater Charges	62,495	71,970	9,474	15.2%	72,412	442	0.6%	74,584	2,172	3.0%
Potomac Interceptor Wastewater Charges	6,847	7,488	642	9.4%	7,534	45	0.6%	7,760	226	3.0%
Total Wholesale	69,342	79,458	10,116	14.6%	79,946	488	0.6%	82,344	2,398	3.0%
District Stormwater Revenue (2)	1,000	1,000	-	-	1,000	-	0.0%	1,000	-	0.0%
Misc. Rev. (e.g. water tap installation, fire hydrant usage, etc.)	25,109	29,019	3,910	15.6%	28,458	(562)	-1.9%	24,020	(4,438)	-15.6%
Washington Aqueduct Debt Service Revenue for Falls Church & Arlington	193	193	-	-	193	-	0.0%	193	-	0.0%
Interest Income (including interest on Bond Debt Service Reserve Fund)	1,680	1,340	(340)	-20.2%	2,929	1,590	118.6%	5,004	2,075	70.8%
Transfer from DC PILOT/ROW Fund	-	-	-	-	-	-	-	-	-	0.0%
DC Contribution of 50% PILOT Fund to DCW	-	-	-	-	-	-	-	-	-	0.0%
Right of Way	5,100	5,100	-	-	5,100	-	0.0%	5,100	-	0.0%
PILOT Fee	15,644	15,484	(160)	-1.0%	15,876	393	2.5%	16,276	400	2.5%
Total Other	48,726	52,136	3,410	7.0%	53,556	1,420	2.7%	51,593	(1,963)	-3.7%
Total Operating Cash Receipts	\$ 570,205	\$ 580,514	\$ 10,309	1.8%	\$ 592,803	\$ 12,289	2.1%	\$ 618,685	\$ 25,882	4.4%

- (1) Historical actuals are presented on revenue basis. Projected amounts shown are billed revenues. Actual Federal receipts are a combination of current year projected revenues and prior year adjustments, which are presented as reserve items. See Section 3 for further explanation.
- (2) Reflects District stormwater fee revenue that will fund DC Water's share of District stormwater permit compliance activities, and will not be funded through DC Water's retail rates or other DC Water revenue sources. See Section 3 for further explanation.

- **Residential, Commercial and Multi-family Receipts** - are projected at \$311.9 million, which is approximately \$4.9 million less than the Board approved FY 2016 level, primarily due to lower consumption projection.
- **Federal revenues** - are projected to decrease by \$0.3 million or 0.5 percent reflecting the Congressional approval level for the FY 2016 federal bill.
- **Municipal & D.C. Housing Authority Receipts** - are projected to increase by \$2.0 million (or 9.2 percent) primarily due to increase in CRIAC charges for these categories.
- **Rate Stabilization Fund Utilization** - The ten-year plan and near-term revenue projections assume no utilization of RSF in FY 2016. **Prior years' plans** assumed the use of these funds, which is necessary as DC Water reaches its peak years of spending in the CIP. Utilization of RSF monies allows DC Water to implement future rate increases in a reliable and predictable manner while still meeting Board and indenture policies on cash reserves and debt service coverage.
- **Customer Metering Fee** - This fee recovers the costs associated with installing, operating, maintaining and replacing meters, and is charged to all retail customers (including federal and municipal customers). The fee varies based on meter size, with monthly fees ranging from \$3.86 for a 5/8 inch meter (typical size of a residential customer meter) to \$349.06 for 16" meters (typically used for large commercial customers). No revenue change is anticipated in this category.
- **Wholesale Receipts** - are projected to increase by \$10.1 million, or 14.6 percent, due to change in billing estimation methodology.
- **Stormwater** - DC Water's FY 2016 and FY 2017 receipts include \$1.0 million each year from the Department of Energy and Environment (DOEE), formerly DDOE, which will be used to fund DC Water's services provided on behalf of the District's stormwater permit compliance activities including the billing and collection through DC Water invoices of fees established by DOEE. The FY 2016 – FY 2025 financial plan assumes that all incremental costs borne by DC Water for stormwater permit compliance activities will be reimbursed by the stormwater fund, and that no DC Water funds will be advanced to pay for these activities.
- **Other revenues** - In FY 2016 are projected to increase by \$3.4 million, or 7.0 percent, mainly due to increase in the Fire Protection Service Fee based on FY 2015 Cost of Service Study.
- **Right-of-Way and Payment-In-Lieu of Taxes (PILOT) Pass-Through Fees** - Similar to other Washington area utilities, DC Water has implemented fees that pass through the costs of the District's Right-of-Way fee (ROW) and Payment in Lieu of Taxes (PILOT) as separate line items on its bill. In FY 2016 revised budget as compared to FY 2016 approved budget, PILOT is projected to decrease by \$0.2 million, or 1.0 percent based on the new PILOT agreement signed with the District Government on September 4, 2014.

Other major assumptions underlying the revenue projections contained in the FY 2016 – FY 2025 financial plan include:

- For FY 2016, 1 percent reduction in water sales is assumed over FY 2015 projection for all customer categories, based on historical trends in consumption levels. For FY 2017 and onwards, 1 percent conservation is assumed for all categories.
- 3.0 percent average revenue increase between FY 2018 and FY 2025 from wholesale customers, in line with operating and maintenance expense increases for joint use facilities. In FY 2017, however, the wholesale revenue increased by \$0.5 million or 0.6 percent due to revised operations and maintenance expense projection for FY 2017.
- Based on the current interest rate environment, interest projections are conservatively assumed at 1.0 percent earnings rate in FY 2016 and 2.0 percent in FY 2017 and FY 2018 on operating funds. Interest rates for FY 2019 and FY 2020 are assumed at 3.0 percent. For FY 2021 and onwards, interest rates are assumed at 5.0 percent.
- The majority of other non-operating revenues, totaling \$29.6 million in FY 2017 are projected to increase within the ten-year plan, and include such items as:
 - Reimbursement from Arlington County and Falls Church for debt service issued for pre-1997 Washington Aqueduct capital improvements - \$0.2 million.
 - Reimbursement from the Stormwater Enterprise Fund for services provided to DOEE under their MS4 permit - \$1.0 million.
 - Recovery of indirect costs from DC Water’s IMA partners - \$7.9 million - this reflects recovery of indirect costs on capital projects (e.g., costs for Finance, Accounting and Budget, General Counsel, and Human Resources functions).
 - Reimbursement from the District for the Fire Protection Services fee of \$10.8 million.
 - Other miscellaneous fees and charges, including service line replacements, developer-related fees, and the Engineering Review and wastehauler fees - \$9.7 million.

The Proposed FY 2017 receipts projection totals \$592.8 million, approximately \$12.3 million, or 2.1 percent, higher than the revised FY 2016 projections. This increase is due primarily to:

- **Residential, Commercial & Multi-Family** - FY 2017 projections reflect an increase of \$18.2 million, or 5.8 percent from FY 2016 revised due primarily to proposed retail rate increases of 5.0 percent (water and sewer volumetric rates) and \$1.94 monthly ERU fee for the Clean Rivers IAC (see Section IV- Rate and Revenues for detail on all rate and fee proposals)
 - One percent decrease in consumption has been assumed due to conservation in FY 2017.
- **Federal Revenues** - Proposed FY 2017 federal revenues are projected to decrease by \$9.4 million or 14.9 percent over revised FY 2016 budget. Under existing federal billing legislation, federal billings are prepared on an estimated basis eighteen months in advance of the start of the fiscal year (e.g., the FY 2017 billing was prepared in April 2015, and are based on the current consumption estimates and projected rate increases as included in the current ten-year plan. These estimates are then reconciled with actual consumption and rate increases, and an adjustment is made in the subsequent year's billing (e.g., the reconciliation of FY 2015 estimated vs. actual consumption and rate increases will be included in the FY 2018 billing, prepared in April 2016). Federal revenues in the ten year plan are presented on a revenue basis, net of any adjustments for prior year reconciliations which are accounted for as reserve items. Consistent with this methodology, the proposed FY 2017 federal revenues reflect the final billing sent to the federal government in April 2015 net of the adjustment for the prior-year (FY 2014) reconciliation.
- **Municipal & D.C. Housing Authority Receipts** - are projected to increase \$1.6 million (or 6.7 percent), mainly due to proposed retail rate increases of 5.0 percent and 1.94 monthly ERU fee for the Clean Rivers IAC.
- The **Rate Stabilization Fund** - is not utilized in FY 2017. There will be a balance of \$121.45 million by the end of FY 2025.
- **Water System Replacement Fee** - Proposed fixed monthly fee set to recover the costs of 1 percent renewal and replacement program for water service lines generating approximately \$40 million per year.
- **Customer Metering Fee** - This fee recovers the costs associated with installing, operating, maintaining and replacing meters, and is charged to all retail customers (including federal and municipal customers). The fee varies based on meter size, with monthly fees ranging from \$3.86 for a 5/8 inch meter (typical size of a residential customer meter) to \$349.06 for 16" meters (typically used for large commercial customers). No revenue change is anticipated in this category.
- **Wholesale Receipts** - DC Water's wholesale customers are responsible for a proportionate share of operating and maintenance expenses (associated only with shared facilities primarily at Blue Plains) based on their respective share of wastewater volume discharged. In addition, each user is responsible for a proportionate share of related indirect costs. In FY 2017, wholesale revenues are projected to increase by \$0.5 million or 0.6 percent to \$79.9 million due to revised operations and maintenance expense projection for FY 2017.

- **Stormwater** - As noted earlier, the proposed FY 2017 receipts for this category include \$1.0 million each year from the Department of Energy and Environment (DOEE).
- FY 2017 **PILOT Fee** increase by 2 percent over prior year as per new PILOT MOU signed with the District Government.

The Proposed FY 2018 receipts projection totals \$618.7 million, approximately \$25.9 million, or 4.4 percent, higher than the Proposed FY 2017 projections. This increase is due primarily to:

- **Residential, Commercial & Multi-Family** - FY 2018 projections reflect an increase of \$19.8 million, or 6.0 percent from proposed FY 2017 due primarily to proposed retail rate increases of 5.0 percent (water and sewer volumetric rates) and \$2.94 monthly ERU fee for the Clean Rivers IAC (see Section IV- Rate and Revenues for detail on all rate and fee proposals)
 - One percent decrease in consumption has been assumed due to conservation in FY 2018.
- **Federal revenues** - Proposed FY 2018 federal revenues are projected to increase by \$3.7 million or 6.8 percent over Proposed FY 2017 budget to \$57.3 million.
- **Municipal & D.C. Housing Authority Receipts** - are projected to increase \$2.0 million (or 7.9 percent), mainly due to proposed retail rate increases of 5.0 percent and \$2.94 monthly ERU fee for Clean Rivers IAC.
- The **Rate Stabilization Fund** - is not utilized in FY 2018. There will be a balance of \$121.5 million by the end of FY 2025.
- **Water System Replacement Fee** - Proposed fixed monthly fee set to recover the costs of 1 percent renewal and replacement program for water service lines generating approximately \$40 million per year.
- **Customer Metering Fee** - No revenue change is anticipated in this category and \$10.8 million is projected to be collected in FY 2018.
- **Wholesale Receipts** - In FY 2018, wholesale revenues are projected to increase by \$2.4 million or 3.0 percent to \$82.3 million due to projected 3.0 percent increase in operations and maintenance expenses.
- **Stormwater** - As noted earlier, the proposed FY 2018 receipts for this category include \$1.0 million each year from the Department of Energy and Environment (DOEE).
- FY 2018 **PILOT Fee** increased by 2 percent over prior year as per new PILOT MOU signed with the District Government.

DISTRICT OF COLUMBIA WATER & SEWER AUTHORITY
FY 2016 – FY 2025 FINANCIAL PLAN
(\$000's)

OPERATING	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Retail*	469,504	480,278	506,124	532,993	561,367	590,311	616,271	640,056	663,883	687,688
Wholesale*	79,458	79,946	82,344	84,814	87,359	89,979	92,679	95,459	98,323	101,273
Other	31,553	32,580	30,217	32,107	33,398	37,087	39,695	40,220	40,571	41,405
RSF	-	-	-	-	-	-	-	-	-	-
Operating Receipts (1)	\$ 580,514	\$ 592,803	\$ 618,685	\$ 649,914	\$ 682,123	\$ 717,378	\$ 748,644	\$ 775,735	\$ 802,777	\$ 830,366
Operating Expenses	(324,202)	(320,531)	(329,834)	(342,414)	(352,367)	(362,616)	(373,168)	(384,034)	(395,223)	(406,743)
Debt Service	(157,640)	(169,346)	(188,374)	\$ (204,397)	\$ (222,365)	\$ (240,841)	\$ (250,777)	\$ (258,414)	\$ (265,823)	\$ (273,229)
Defeasance D.S./Cash Financed Capital Cons	\$ (23,475)	\$ (24,014)	\$ (25,306)	\$ (26,650)	\$ (28,068)	\$ (29,516)	\$ (30,814)	\$ (32,003)	\$ (33,194)	\$ (34,384)
Net Revenues After Debt	\$ 75,197	\$ 78,912	\$ 75,170	\$ 76,454	\$ 79,323	\$ 84,405	\$ 93,886	\$ 101,284	\$ 108,536	\$ 116,010
Operating Reserve-Beg Balance	160,055	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000
Other Misc (Disbursements)/Receipts										
Wholesale/Federal True Up	(17,179)	(24,201)	(4,752)	-	-	-	-	-	-	-
Customer	-	-	-	-	-	-	-	-	-	-
Transfers To RSF	(19,000)	-	(9,000)	(5,000)	(5,000)	(4,000)	(7,000)	(9,000)	(19,000)	(12,000)
Transfers To DC PILOT Fund	-	-	-	-	-	-	-	-	-	-
Pay-Go Financing	<u>(59,073)</u>	<u>(54,711)</u>	<u>(61,419)</u>	<u>(71,454)</u>	<u>(74,323)</u>	<u>(80,405)</u>	<u>(86,886)</u>	<u>(92,284)</u>	<u>(89,536)</u>	<u>(102,194)</u>
Operating Reserve - Ending Balance	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 141,816
Rate Stabilization Fund Balance RSF (2)	\$ (51,450)	\$ (51,450)	\$ (60,450)	\$ (65,450)	\$ (70,450)	\$ (74,450)	\$ (81,450)	\$ (90,450)	\$ (109,450)	\$ (121,450)
Senior Debt Service Coverage	462%	430%	406%	442%	460%	452%	473%	470%	551%	582%
Combined Debt Service Coverage	153%	159%	157%	159%	156%	155%	156%	157%	155%	159%
Actual/Projected Water/Sewer Rate Increases	6.5%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
*Operating Receipts \$ Increase/Decrease										
Retail	65,394	10,774	25,846	26,869	28,374	28,944	25,960	23,785	23,827	23,806
Wholesale	(1,772)	488	2,398	2,470	2,544	2,621	2,699	2,780	2,864	2,950
*Operating Receipts % Increase/Decrease										
Retail	16.2%	2.3%	5.4%	5.3%	5.3%	5.2%	4.4%	3.9%	3.7%	3.6%
Wholesale	-2.2%	0.6%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

(1) Includes interest earnings on senior lien revenue bonds' debt service reserve fund

Operating Expenditures

As in previous years, debt service continues to be the fastest growing expenditure in the ten-year financial plan as a result of DC Water's \$3.66 billion capital improvement program, growing at an average annual rate of 6.3 percent. All other operating expenses are projected to grow at an average annual rate of 2.6 percent. The following chart provides detail comparison of the FY 2016 and FY 2017 operating budgets.

COMPARATIVE OPERATING EXPENDITURES FY 2016 – FY 2017 (\$000's)

	FY 2016 APPROVED	FY 2017 APPROVED	Increase/ (Decrease)	Percent Change
Personnel Services	\$ 140,034	\$ 144,761	\$ 4,727	3.4%
Contractual Services	68,460	73,160	4,700	6.9%
Biosolids	10,783	9,600	(1,183)	-11.0%
Water Purchase	30,740	29,278	(1,462)	-4.8%
Supplies	7,845	8,421	576	7.3%
Chemicals	28,106	26,288	(1,818)	-6.5%
Utilities	35,018	28,670	(6,348)	-18.1%
Small Equipment	1,465	1,230	(235)	-16.1%
Subtotal Operations & Maintenance	322,451	321,408	(1,043)	-0.3%
Debt Service	174,766	169,346	(5,420)	-3.1%
Cash Financed Capital Improvements	23,644	24,014	370	1.6%
PILOT	15,644	15,957	313	2.0%
Right Of Way Fee	5,100	5,100	0	0.0%
Subtotal Debt Service, CFCI & PILOT / ROW	219,154	214,417	(4,737)	-2.2%
TOTAL OPERATING EXPENDITURES	\$ 541,605	\$ 535,825	\$ (5,780)	-1.1%
Less Personnel Services Charged to Capital Projects	(18,993)	(21,934)	(2,941)	15.5%
Total Net Operating Expenditures	\$ 522,612	\$ 513,891	\$ (8,721)	-1.7%

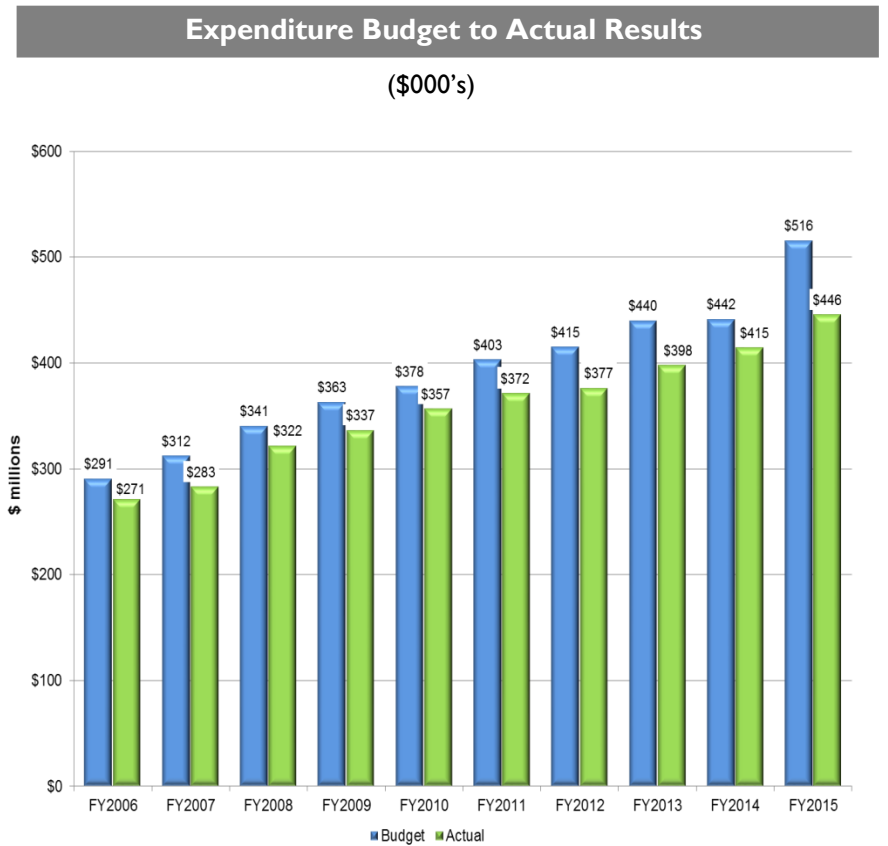
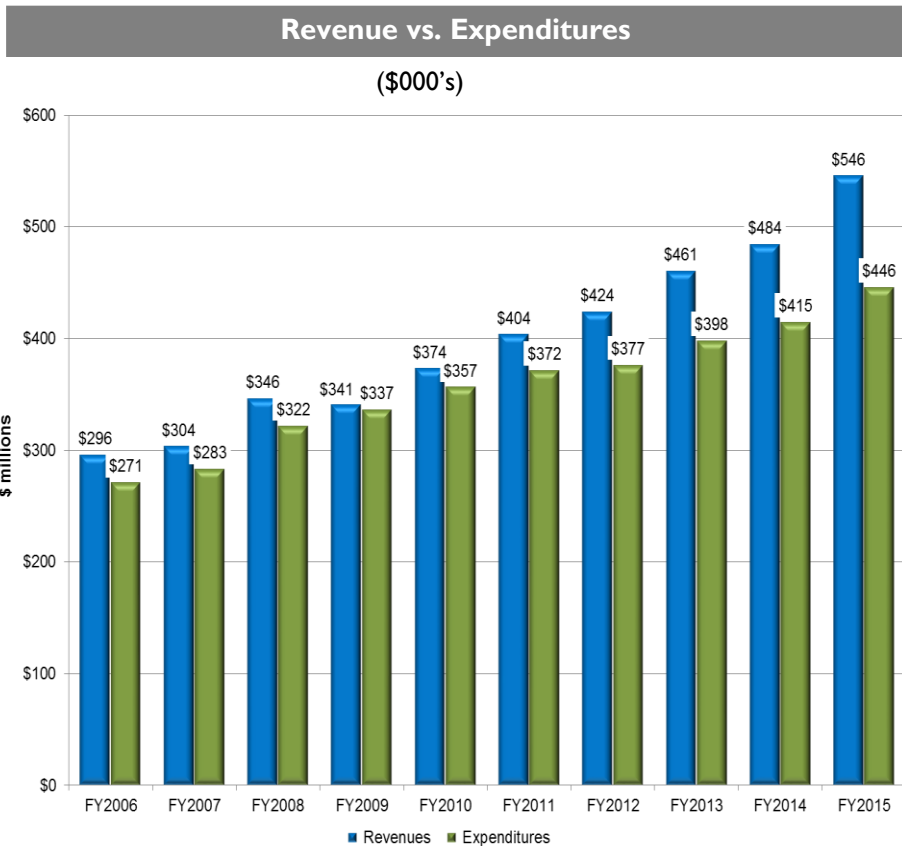
The approved FY 2017 budget total of \$535.8 million is approximately 1.1 percent lower than the approved FY 2016 budget. This net decrease is primarily due to decreasing debt service costs associated with DC Water's capital improvement program. The FY 2017 operations and maintenance budget net decrease of 0.3 percent is primarily due to projected decreases in utilities, chemicals, water purchase and biosolids hauling costs. Specific information regarding each department is included in Section VII.

A description of the assumptions and major issues/changes in each major expenditure category follows.

- Personnel Services – increase of \$4.7 million or 3.4 percent above the approved FY 2016 budget. The increase is attributable to increasing health benefits and anticipated reduction of vacancies as the Authority continues its increased hiring efforts. The potential budget impact of Labor Contract Agreement, which expired on September 30, 2015, is unknown at this time.
- Utilities – decrease by approximately \$6.3 million or 18.1 percent below the approved FY 2016 budget mainly in electricity costs. Despite the decrease, the electricity budget at \$20.4 million or 6.4 percent continues to be the largest portion of the Authority's operations and maintenance budget. This decrease is due to estimated savings from the DC Water's thermal hydrolysis process and anaerobic digesters which became operational in the fall of 2015 and produce electricity from wastewater. The Authority-wide energy consumption is estimated at 27MW, net of onsite generation from the CHP project, which will power up to one third of Blue Plains Plant's operation.
- Chemicals – decrease of \$1.8 million or 6.5 percent below the approved FY 2016 budget. The decrease is due to a change in the treatment process from lime stabilization, which utilizes less lime and polymer to the innovative thermal hydrolysis and Digester system which uses intense heat and pressure to treat wastewater.
- Water purchase – decrease of approximately \$1.5 million or 4.8 percent below the approved FY 2016 budget. This represents DC Water's share of the Washington Aqueduct's FY 2016 O&M budget decrease.
- Biosolids Hauling – decrease by approximately \$1.2 million or 11.0 percent below the approved FY 2016 budget. The decrease is due to the materialized savings from transportation costs attributable to production of Class A biosolids estimated at 500 wet tons/day from the CHP facility. Previously, the Blue Plains Plant produced 1,200 wet tons per/day of Class B biosolids.

Solid Financial Performance with Revenues Consistently Exceeding Expenses

- FY 2015 Actual Operating cash receipts increased by \$61.6 million to \$546.1 million or 12.7 percent
- FY 2015 Actual Operating expenses increased by \$31.4 million to \$446.3 million, or 7.6 percent
- FY 2015 Budget to actual results showed both revenues exceeding and expenses below budget

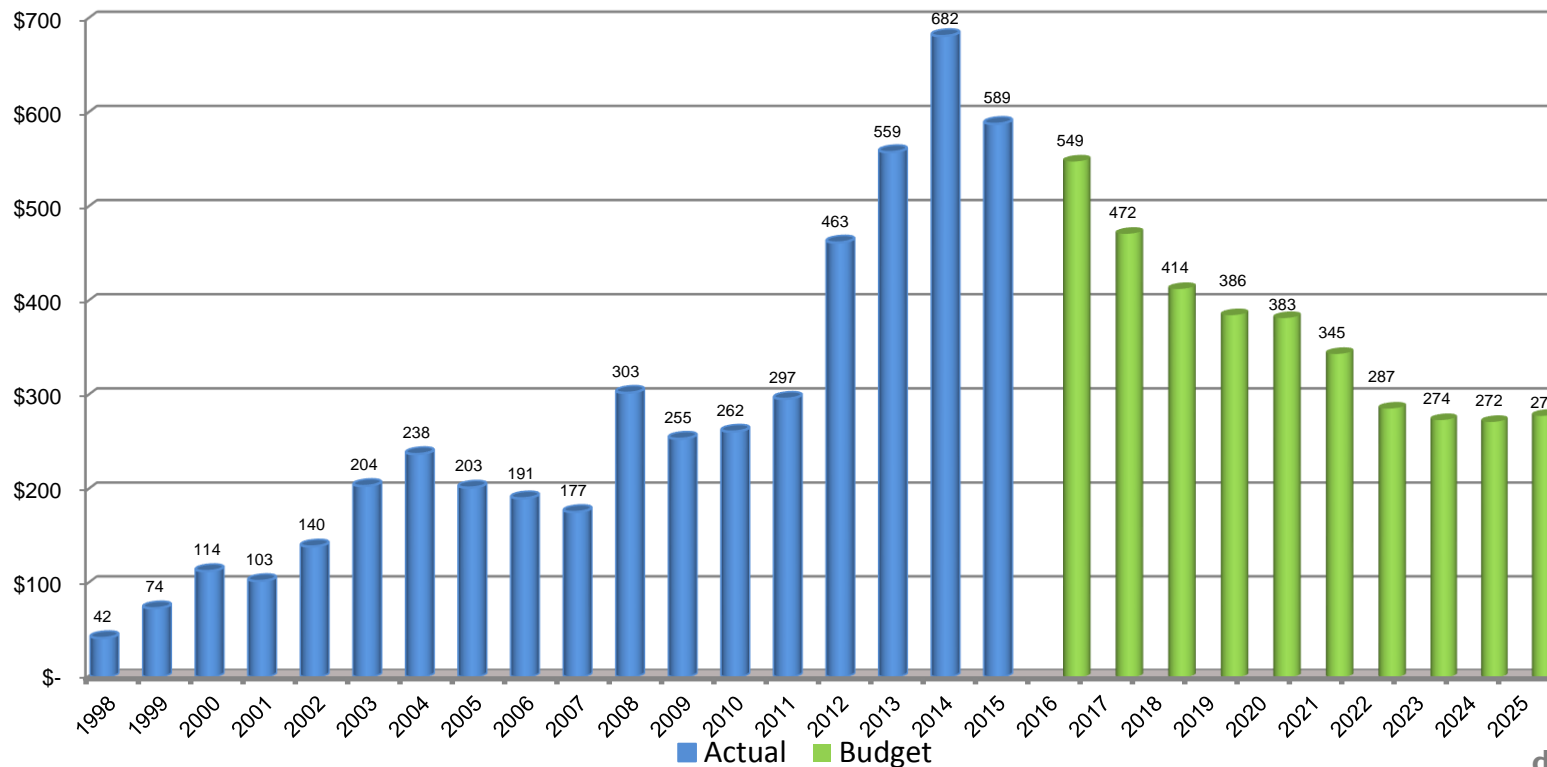


The \$3.66 Billion 10-Year CIP Protects Our Assets While Leveraging Long-Term Debt

The FY 2016 – FY 2025 financial plan anticipates capital disbursements of \$3.66 billion. Over the last 18 years, \$4.9 billion have been invested on DC Water’s system averaging approximately \$274 million per year. Projected annual spending ranges from \$272 million to nearly \$549 million as shown in the chart below (or approximately \$366 million per year from FY 2016 – FY 2025). The financing of DC Water’s capital program comes from four primary sources, as more fully described in this section. The amount of EPA grant funding is defined by annual federal appropriations, while jurisdictional capital contributions are based on a fixed percentage of Blue Plains and other shared facilities. The remainder of the program is funded with DC Water’s debt and PAY-GO financing from operations.

As noted earlier in this section, DC Water developed a comprehensive financing plan in FY 1999 with the dual goals of 1) securing the lowest cost of capital possible, and 2) maximizing administrative and operating flexibility. The plan includes the following components: Grants; wholesale capital payments; permanent financing; Interim financing and PAY-GO.

HISTORICAL AND PROJECTED CAPITAL SPENDING FY 1998 – FY 2025
(\$ IN MILLIONS)



Additional details on each financing source are described below:

	FY2016 - FY2025 PLAN TOTAL	PERCENT OF TOTAL
Revenue Bonds/Commercial Paper/EMCP	\$ 1,782,721,852	48.0%
Wholesale Capital Payments	659,889,156	17.7%
EPA Grants & CSO Appropriations	201,162,078	5.4%
Interest Income on Bond Proceeds	14,350,540	0.4%
Pay-Go Financing	1,059,707,748	28.5%
Total Sources	\$ 3,717,831,374	100%

- **EPA and CSO Grants** – For FY 2016 – FY 2025, EPA and CSO grants represent only 5.31 percent of the funding for 10-year capital program. DC Water currently plans to finance part of its Ten-Year CIP through EPA grant funding for certain eligible projects under the Clean Water and Safe Drinking Water Acts. In general, the District of Columbia projects carried out by DC Water are supported by approximately one percent of the available annual funding through revolving fund programs associated with the Clean Water and Safe Drinking Water Acts. In addition, DC Water has received \$210.8 million in Congressional appropriations for the Clean Rivers Project (aka CSO LTCP) as of September 30, 2015.
- **Wholesale Capital Payments** - Approximately 60 percent of the capacity of DC Water’s wastewater treatment facilities are contractually committed to provide wholesale service to suburban jurisdictions under various contracts. Montgomery and Prince George's Counties (through the Washington Suburban Sanitary Commission (WSSC), Fairfax County, and the Loudoun County Sanitation Authority pay a proportionate share of capital-related costs equal to their share of contracted capacity at Blue Plains. DC Water anticipates 17.43 percent of its capital funding will come from wholesale customers.
- **Revenue Bonds/Commercial Paper/EMCP-** Currently debt financing represent only 48.89 percent of the funding in the ten-year capital program.

- **PAY-GO (Internal) Financing** – ‘Pay-go’ financing shall mean any cash financing of capital projects. The amount transferred from operations to the capital program each year shall be cash in excess of all operating requirements or restricted use. Approximately 27.99 percent of total funding for the FY 2016 – FY 2025 plan is projected to come from PAY-GO financing, which strikes an appropriate balance between maintaining moderate debt levels and financing provided by current ratepayers.

PAY-GO funds will be used in a manner consistent with our financial policies: 1) to fund capital financing or for repayment of higher cost debt and that whenever possible, the least costly capital financing be used for capital projects. 2) to produce the lowest practical cost of debt for financing its capital projects.

FY 2016 & FY 2017 Debt Issuance Plans & Debt Service Assumptions

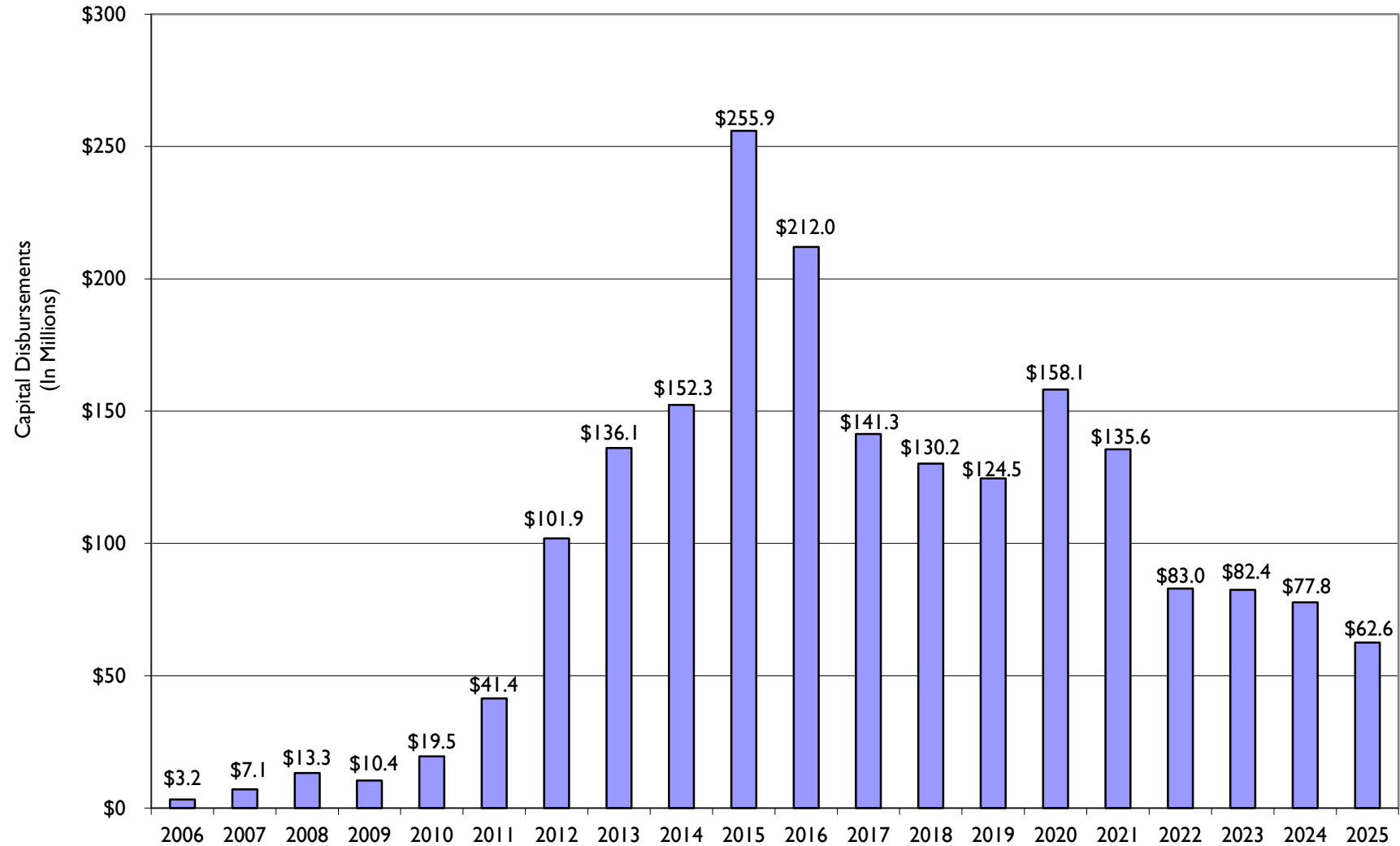
Based on current capital project spending, we plan to: 1) issue approximately \$300 million in new bonds in third quarter of FY 2017. For the purpose of financial planning we have assumed fixed rate, tax-exempt bonds at 5.75 percent. Similarly for the remainder of the ten-year plan we have assumed issuing long term bonds at 6.50 percent, 2) issue commercial paper for interim financing. The ten-year plan assumes a variable interest rate of 2.50 percent in FY 2016 – FY 2025. In order to yield the best possible interest rate savings, our debt portfolio is evaluated on a regular basis.

DC Clean Rivers Project

In December 2004, the Board reached agreement with the federal government on the proposed DC Clean Rivers Project LTCP and entered into a related consent decree. Lifetime capital costs for this project currently stands at approximately \$2.6 billion and this year’s proposed ten-year plan includes \$1.2 billion of projected disbursements. Projected spending by fiscal year for the Clean Rivers Project is shown in the next chart.

In FY 2015, DC Water received federal funding of \$14.0 million for the Combined Sewer Overflow Long term Control Plan Service Area. However, as the project spending increases over the years, so does the projected Clean Rivers Impervious Service Area Charge (CRIAC) rate. If additional federal assistance is provided, the Clean Rivers IAC would increase at a slower pace than this ten-year plan proposal assumes. As noted earlier, this plan assumes jurisdictional contributions, for joint use Projects, to the Clean Rivers Project under the IMA of 7.1 percent beginning in FY 2011. Please see section IV for more details on the Clean Rivers IAC.

Clean Rivers CSO LTCP Disbursements by Fiscal Year



Cash Position & Reserves

[summary](#)[overview](#)[financial plan](#)[rates&rev](#)[capital](#)[financing](#)[departmental](#)[glossary](#)

Cash balances totaled \$193.5 million at the end of FY 2015. As detailed below, this includes \$32.45 million for rate stabilization. Over the next ten years, cash balances are projected to meet the Board-required reserve level, of 120 days of operating and maintenance budget or no less than \$125.5 million.

DC Water's operating reserve includes the following components:

FY 2015 YEAR-END CASH

(In \$000's)

BOARD-ADOPTED OPERATING RESERVES (120 Days of O&M)

60 Day Operating Reserve (Indenture Required)	\$	46,366
Renewal & Replacement Reserve (Indenture Required)		35,000
Undesignated Reserve		44,134
TOTAL OPERATING RESERVE	\$	125,500

OTHER RESERVES

Rate Stabilization Fund Reserve	\$	32,450
DC Insurance Reserve		1,039
TOTAL OTHER RESERVES	\$	33,489

TOTAL RESERVES

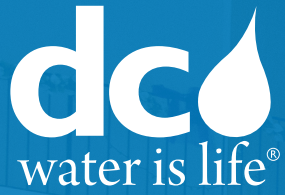
Cash in Excess of Reserves		34,554
TOTAL CASH POSITION ⁽¹⁾	\$	193,543

(1) Excludes Debt Service Reserve Funds

- **Indenture-Required Operating Reserve** - This reserve is required by DC Water's bond indenture and is equivalent to two months' operations and maintenance expenses from the prior year, or approximately \$46.4 million in FY 2015.
- **Renewal & Replacement Reserve** - In FY 2013 the Board reaffirmed the amount of \$35 million in the financing policy. The reserve level will be reviewed every five years by DC Water's independent rate consultants in conjunction with the indenture-required assessment of the physical condition of the system.
- **Undesignated Reserve** - After allocating portions of the operating and maintenance reserve to the reserves listed above, the amount that remains (approximately \$44.1 million for FY 2015) is DC Water's undesignated reserve, and is available for other contingencies.

DC Water has other reserves that are available for very specific circumstances:

- **Rate Stabilization Fund** - Consistent with the Board's financial policies and as envisioned in the bond indenture, this fund is to be established to mitigate large annual rate increases. This year's plan reflects continued use of the rate stabilization fund, which totaled \$32.45 million as of September 2015. Future deposits to the rate stabilization fund will be determined annually based on financial performance in that fiscal year and updated ten-year capital and operating forecasts. The current plan anticipates \$51.45 million available at the end of FY 2016 and a balance of \$121.45 million by the end of FY 2025.
- **Debt Service Reserve Funds** - The supplemental bond indenture associated with the Series 1998 senior lien bonds requires DC Water to maintain a debt service reserve fund. This reserve which is in addition to the 120 day operating and maintenance reserve, is held by DC Water's trustee and can only be used in the event that net revenues are insufficient to meet the next debt service payment. DC Water earns interest on this reserve that is included in other operating revenue and is used to offset annual debt service payments. The amount of interest earnings that DC Water can retain on the debt service reserve fund is limited by federal arbitrage restrictions.



OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

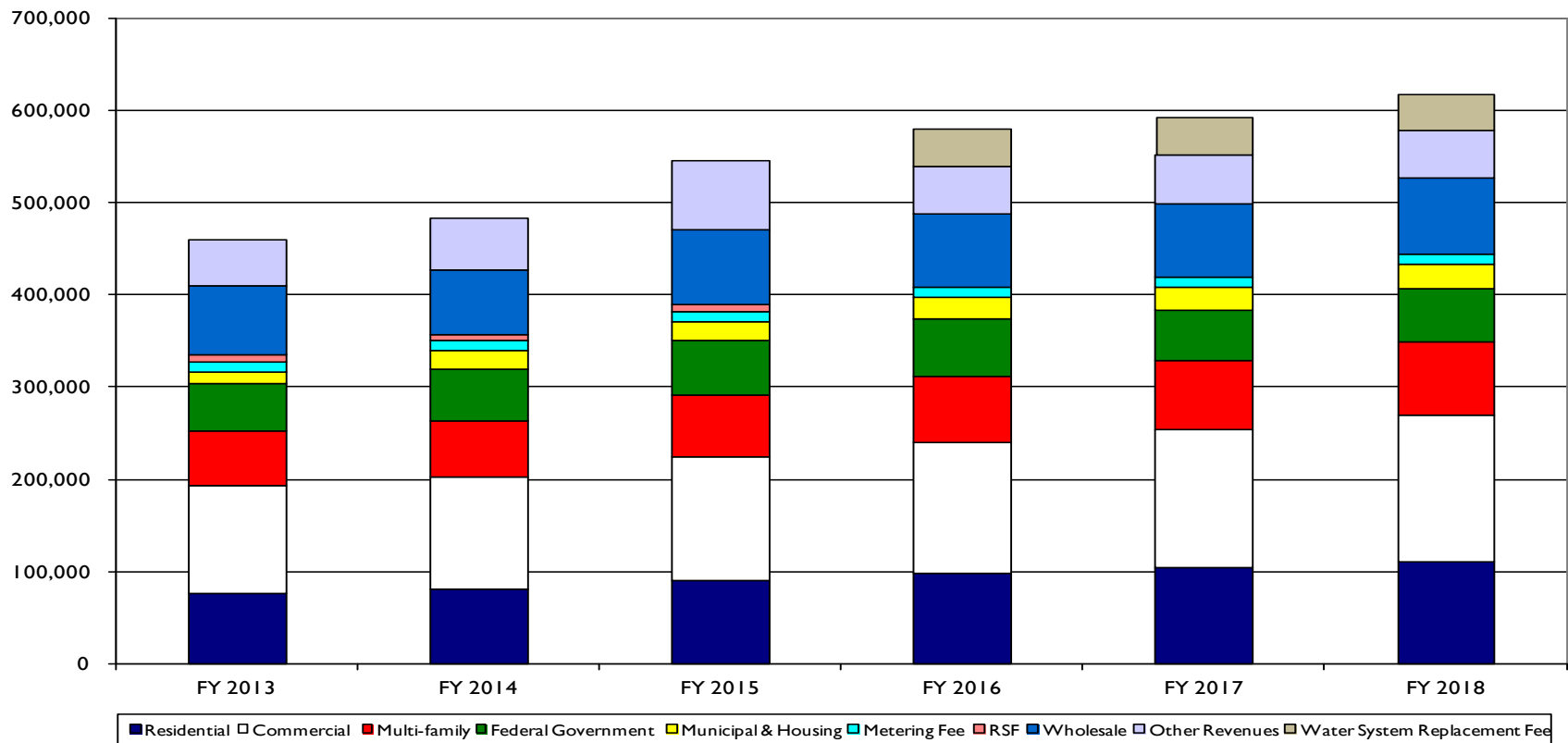
Section IV RATES AND REVENUES



Brightwood Park
United Methodist Church
PASTOR GERALD L. ELSTON SR.

In order to provide continuous delivery of water and wastewater services, DC Water must ensure a reliable and predictable revenue stream that cover operating and maintenance (O&M) costs and meet or exceed all Board and other financial requirements. DC Water has a diverse customer base and thus receives cash receipts from a variety of sources. This diversity mitigates reliance on any single customer and provides a level of revenue stability.

Historical & Projected Cash Receipts (\$000's)



Historical and Projected Operating Cash Receipts

(\$ 000's)

	FY 2013 Actual	FY 2014 Actual	FY 2015 Actual	FY 2016 Revised	FY 2017 Proposed	FY 2018 Proposed
Residential	76,188	81,854	90,765	99,037	104,665	111,410
Commercial	116,693	120,965	134,724	140,724	149,820	158,913
Multi-family	59,646	61,563	66,378	72,136	75,634	79,607
Sub-Total Residential, Commercial and Multi-family	252,527	264,383	291,867	311,897	330,119	349,930
Federal Government (1)	52,564	55,725	59,171	62,989	53,590	57,258
District Government	7,042	12,734	12,894	15,175	16,345	17,853
D.C. Housing Authority	5,125	7,100	6,968	8,083	8,471	8,931
Transfer from Rate Stabilization Fund	6,500	6,500	7,500	-	-	-
Water System Replacement Fee (WSRF)			-	40,000	40,000	40,000
Metering Fee	11,103	11,207	11,111	10,776	10,776	10,776
Total Retail	334,861	357,648	389,511	448,920	459,301	484,748
IMA Wastewater Charges	67,469	63,822	73,889	71,970	72,412	74,584
Potomac Interceptor Wastewater Charges	7,540	6,941	7,341	7,488	7,534	7,760
Total Wholesale	75,009	70,763	81,230	79,458	79,946	82,344
District Stormwater Revenue (2)	898	930	899	1,000	1,000	1,000
Misc. Rev. (e.g. water tap installation, fire hydrant usage, etc.)	26,702	30,773	31,169	29,019	28,458	24,020
Washington Aqueduct Debt Service Revenue for Falls Church & Arlington	206	201	193	193	193	193
Interest Income (including interest on Bond Debt Service Reserve Fund)	766	560	846	1,340	2,929	5,004
Transfer from DC PILOT/ROW Fund	-	-	5,100	-	-	-
DC Contribution of 50% PILOT Fund to DCW	-	-	15,049	-	-	-
Right-of-Way Fee	5,100	-	5,100	5,100	5,100	5,100
PILOT Fee	17,416	23,618	16,998	15,484	15,876	16,276
Total Other	51,088	56,082	75,354	52,136	53,556	51,593
Total Operating Cash Receipts	460,958	484,493	546,095	580,514	592,803	618,685

(1) Historical actuals are presented on revenue basis. Projected amounts shown are billed revenues. Actual Federal receipts are a combination of current year projected revenues and prior year adjustments, which are presented as reserve items. See Section 3 for further explanation.

(2) Reflects District stormwater fee revenue that will fund DC Water's share of District stormwater permit compliance activities, and will not be funded through DC Water's retail rates or other DC Water revenue sources. See Section 3 for further explanation.

CUSTOMER CATEGORIES AND ACCOUNTS

As of September 30, 2015, DC Water had 127,357 active, metered water and wastewater accounts. In addition, there are 9,190 separate accounts that are billed only for impervious surface. DC Water's customers are classified as retail (residential, multi-family and non-residential) and wholesale customers only. However, within the retail customer class, DC Water tracks receipts and associated consumption at a more detailed level in order to analyze trends and service characteristics. Retail customers' characteristics can be viewed in six groups: residential, multi-family, commercial, federal, DC Municipal and Housing Authority.

FY 2015 revenue receipts are actual as of September 30, 2015.

In FY 2011, a study of the demand characteristics of DC Water customers was undertaken to determine if additional customer classes should be defined for the purpose of cost allocation. Review of 12 months of data (May 2010 to April 2011) revealed, (among other things) that there is a difference in peaking characteristics between many of the customer groups. Generally, the federal customers have the highest peaking factor, with commercial customers having the next highest peaking factor and municipal, residential, multi-family and Housing Authority customers having the lowest peaking factor. Segmentation of water customers is typically done by class-based peak use characteristics with the higher peaking customers allocated more of the system costs (primarily driven by electricity and system capacity costs).

This information helped to inform an analysis of alternative rate structures within the FY 2012 Cost of Service Study (COS). Among the alternatives reviewed, the study reviewed different volumetric rates by customer class/category based on the different demands they place on the system. Differentiation could be based on water peaking characteristics or discharge strength contributions (wastewater). While it was recommended that additional analysis be undertaken in for any further consideration of discharge strength differentiation, management recommended that a new customer class, "Multi-Family", be created to acknowledge the similarity of peaking characteristics with other residential customers, yet provide transparency between single family and multi-family residential units. (Multi-Family residential facilities will continue to be defined as those facilities with 4 or more residential units.) The new Multi-family class has been effective from October 1, 2013. The three customer classes are defined as follows:

- Residential – a single-family dwelling used for domestic purposes; a condominium or apartment unit where each unit is served by a separate service line and is individually metered and the unit is used for domestic purposes; or a multi-family structure of less than four apartment units where all the units are served by a single service line that is master metered

- Multi-Family – a multi-family structure (such as a condominium or apartment dwelling) used for domestic purposes, with four or more units
- Non-residential – all customers not within either the residential or multi-family class

In FY 2015, a COS was conducted by Independent Financial Consultants. These recommendations were incorporated in the FY 2016 rate proposal, and were approved by the Board. These are summarized below:

- New class-based rate structure including Lifeline rate
- Based on similar peaking ratios, District of Columbia Housing Authority (DCHA) category moved to Multi-family class

Residential, commercial and multi-family receipts are projected to increase in FY 2016 by approximately \$20.0 million, or 6.9 percent, over the FY 2015 level due to:

- Board-approved volumetric retail rate increase of 6.5 percent, effective October 1, 2015
- Board-approved Clean Rivers Project CRIAC rate change from \$16.75 to \$20.30 per ERU per month
- 1 percent decrease in consumption due to conservation
- In FY 2015, DC Water's collections on its retail receivables was strong, with accounts receivable over 90 days at \$6.5 million as of September 30, 2015. DC Water will continue its aggressive collection efforts
- The customer assistance program reduces projected revenues by approximately \$2.2 million

Residential and multi-family customers:

- In FY 2016, residential customers include 105,735 accounts that comprise 17.1 percent of the total operating revenues. Given the large number of individual account holders who are in residential, it is unlikely that any one customer will have a major impact on the DC Water cash receipts
- Multi-family customers house 4 or more units within one building with a master meter. In FY 2016, there are 8,139 accounts that comprise 12.4 percent of the total operating revenues

The commercial group of customers includes a number of nationally-recognized universities and regional hospitals, national associations, lobbying firms, major law firms and hotels. This group has 10,801 accounts and will comprise 24.2 percent of the projected FY 2016 operating revenues. In FY 2017, they will comprise 25.3 percent of the fiscal year operating revenue.

FY 2017 projections for Residential, Multi-Family and Commercial customers reflect an increase of \$18.2 million, or 5.8 percent from FY 2016 revised due primarily to proposed retail rate increases of 5.0 percent (water and sewer volumetric rates), and \$1.94 monthly ERU fee for the

Clean Rivers IAC. For FY 2018, the revenue increase is projected at \$19.8 million or 6.0 percent over FY 2017 due to projected rate increases of 5.0 percent and \$2.94 monthly ERU Fee from CRAIC. In FY 2016 and onwards, 1 percent decrease in consumption has been assumed due to conservation.

The Federal customers' revised FY 2016 receipts are projected to total \$63.0 million; an increase of \$3.8 million, or 6.5 percent over FY 2015. In FY 2017, federal revenues are projected to be \$53.6 million or 14.9 percent decrease over FY 2016. The projected federal revenues will be lower by \$9.4 million in FY 2017 due to estimated rate and consumption assumptions provided under the federal billing policies. In FY 2018, the Federal receipts will increase by \$3.7 million or 6.8 percent to \$57.3 million. The projected decline in the federal revenues is due to an executive order to federal agencies to reduce water and electricity consumption, coupled with the federal telework and commuting act to reduce footprint in the District, transfer of federal properties and large metering issues at restricted federal properties.

Under existing federal billing legislation, federal billings are prepared on an estimated basis eighteen months in advance of the start of the fiscal year (e.g., the FY 2016 billing was prepared in April 2014), and are based on the current consumption estimates and projected rate increases as included in the current ten-year plan. These estimates are then reconciled with actual consumption and rate increases, and an adjustment is made in the subsequent year's billing (e.g., the reconciliation of FY 2016 estimated vs. actual consumption and rate increases will be included in the FY 2019 billing, to be prepared in April 2017.) Federal revenues in the ten-year plan are presented on a revenue basis, net of any adjustments for prior year reconciliations which are accounted for as reserve items. Consistent with this methodology, revised FY 2016 federal revenues reflect the final billing sent to the federal government in April 2014 net of the adjustment for the prior year (FY 2013) reconciliation. The Authority serves many facilities of the federal government as well as the District of Columbia. The largest federal accounts include General Services Administration, U.S. Congress, the Smithsonian Institution, Department of the Navy, National Park Service and the Department of Defense in both DC and VA.

Municipal & D.C. Housing Authority – FY 2016 receipts from the District of Columbia government and the District of Columbia Housing Authority are projected at \$23.3 million, an increase of \$3.4 million or 17.1 percent over FY 2015. In FY 2017, receipts from these organizations are projected to total \$24.8 million, an increase of \$1.6 million, or 6.7 percent, mainly due to increases in retail volumetric rates and CRIAC. In FY 2018, the projected increase is \$2.0 million or 7.9 percent over FY 2017.

- The municipal customer group includes 638 accounts under the authority of the District of Columbia government. This includes offices and facilities for various government agencies and activities such as education, regulatory affairs and general government operations. This group will comprise 2.6 percent of the FY 2016 operating budget and 2.8 percent and 2.9 percent of the proposed FY 2017 and FY 2018 budgets respectively.

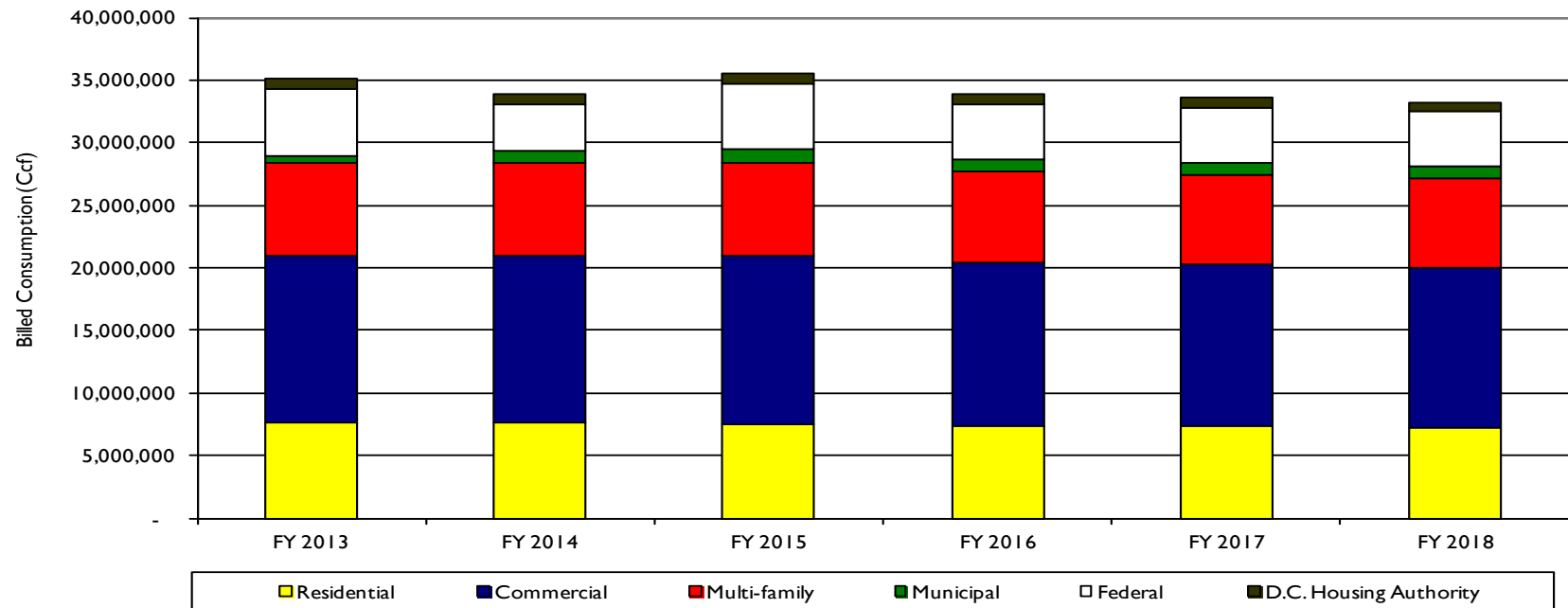
- The D.C. Housing Authority has multiple accounts that include public housing at various facilities throughout the District of Columbia. They have 1,446 accounts. Their annual billings make up only 1.4 percent of the FY 2016 cash receipts and 1.4 percent of the proposed FY 2017 and FY 2018 cash receipts.

Wholesale customer revenue - FY 2016 revenues are projected at \$79.5 million, a decrease of \$1.8 million over FY 2015. In FY 2017, wholesale revenues are projected to increase by \$0.5 million to \$79.9 million. For FY 2018, the wholesale revenues are projected to increase by \$2.4 million or 3.0 percent. DC Water provides wholesale wastewater treatment services to User Jurisdictions at the Blue Plains Plant. The wholesale customers' share of operating costs at Blue Plains are recovered in accordance with the Blue Plains Intermunicipal Agreement of 2012, effective April 3, 2013, (which replaces Blue Plains Intermunicipal Agreement of 1985), the Potomac Interceptor Agreements and the Loudoun County Sanitation Authority Agreement (as discussed in more detail in "THE SYSTEM – The Wastewater System"), and are based on actual costs of operating and maintaining the plant and the collection facilities, prorated to each User Jurisdiction based on its respective actual share of wastewater flows. The User Jurisdiction's share of capital costs is based on each User Jurisdiction's share of capacity allocations in the Plant. Both operating and capital payments are made on a quarterly basis. Capital-related charges are billed quarterly with payments due on the 15th day of the second month following the end of the quarter. The operating and maintenance-related charges are billed annually by mid-October and payments are due on November, February, May and August. Receipts are projected to be 13.7 percent of total receipts in FY 2016. Following each fiscal year, the Authority prepares a reconciliation that determines the actual costs and each wholesale customer's appropriate share of such costs. Adjustments are then billed or credited to the wholesale customers in the first quarter of the subsequent fiscal year. The wholesale customers include: Washington Suburban Sanitary Commission (WSSC), Loudoun County, VA, Fairfax County, VA and a group of small customers of the Potomac Interceptor (PI). The PI customers are comprised of Dulles International Airport (MWAA), National Park Service, Department of Navy and the Town of Vienna.

CONSUMPTION

While wholesale customers pay for their proportional share of wastewater services, retail customers are billed based upon metered consumption. Therefore, variations in consumption have a direct impact upon DC Water retail rates. The consumption for DC retail customers increased by 5.0 percent in FY 2015. Given the uncertainty of the current economy as well as the federal government’s goal to close some neighboring federal facilities and implement a number of conservation best practices over the next few years, the revenue projections assume a 1 percent decline in FY 2016 over FY 2015 projection and 1 percent decline in FY 2017 and beyond.

Historical and Projected Billed Consumption (Ccf)



Historical and Projected Billed Consumption (Ccf) ⁽³⁾

	FY 2013 Actual	FY 2014 Actual	FY 2015 Actual	FY 2016 Projected	FY 2017 Projected	FY 2018 Projected
Residential	7,638,824	7,566,045	7,431,013	7,383,000	7,309,000	7,236,000
Commercial (1)	13,295,119	13,336,392	13,507,756	13,092,000	12,961,000	12,831,000
Multi-family	7,464,328	7,439,742	7,437,925	7,199,000	7,127,000	7,056,000
Municipal (2)	565,671	1,035,424	1,066,587	963,000	954,000	945,000
Federal	5,383,567	3,706,631	5,319,948	4,490,000	4,445,000	4,401,000
D.C. Housing Authority	763,155	776,944	795,696	772,000	764,000	756,000
Total Retail	35,110,664	33,861,178	35,558,925	33,899,000	33,560,000	33,225,000

(1) Reflects consumption at Commercial facilities and selected facilities at Soldiers' Home.

From October 1, 2011 Howard University accounts have been transferred to Commercial and are no longer exempt from paying water.

(2) Reflects consumption at District of Columbia Government facilities and DC Water facilities

(3) Ccf - hundred cubic feet or 748 gallons

COST OF SERVICE STUDIES:

In FY 2010, DC Water's Independent Financial Consultants performed a Cost of Service (COS) Study to include objectives from senior staff on prioritizing DC Water's pricing objectives. One of the objectives noted was the Class-Based Volumetric Differentiation.

In FY 2011, a Customer Segmentation Study was performed to identify classes of customers for the purpose of rate-setting, planning, supply management and cost analysis among others. Typically, this classification is based on: A. general service characteristics and B. demand patterns. Each class is assumed to have somewhat different needs and progressively higher demands than the previous class. Most water utilities typically have three principal classes of customers: A. Residential, B. Commercial and C. Industrial. DC Water has two customer classes: A. Residential and B. Non-Residential.

Furthermore, the FY 2012 Cost of Service Study identified several customer categories that demonstrated a reasonable level of differentiation in terms of peak usage. The customer classes identified included A. Residential, B. Multi-family and C. Non-residential. DC Water added a new class of customer, Multi-family effective October 1, 2014.

In FY 2015, DC Water successfully completed its Cost of Service Study (COS). This study is undertaken every three years to review and certify DC Water's water and wastewater volumetric rates, Clean Rivers Impervious Surface Area Charge (CRIAC) and other DC Water fees and charges to ensure that revenues are sufficient to recover projected revenue requirements, that Board rate setting policies are followed, and that rates are allocated equitably.

DC Water expanded the COS to include alternative rate structure analysis that would more effectively meet DC Water's highest priority pricing objectives:

- Lifeline Rates
- Classed-based Volumetric Rates
- Water System Replacement Fee (WSRF)
- System Availability Fee (SAF)

Lifeline Rate

The lifeline rate allows for the first 4 Ccf of Single Family Residential (SFR) water use to reflect baseline usage by residential customers without peaking costs. The lifeline water rate provides an economic benefit to low-volume Residential customers, while spreading the cost of peaking to high-volume Residential customers.

Class-based Rate Structure

The Independent Financial Consultants analyzed rate differentiation based on the peaking demands of each customer class. They also analyzed consumption patterns to better understand how customers use water and how their use of water may inform selection of an optimized rate structure. Based upon the analysis of the peak demand of different customer classes as well as affordability considerations, the Board approved establishing class-based water volumetric rates for Residential, Multi-family and Non-residential customers effective from October 1, 2015 (FY 2016).

Water Volumetric	Class-Based (w/ lifeline)
Residential - 0-4 Ccf	\$ 3.08
Residential - >4 Ccf	\$ 3.87
Multi-Family / DC Housing	\$ 3.45
Non-Residential	\$ 3.99

Water System Replacement Fee (WSRF)

Effective October 1, 2015 (FY 2016), DC Water modified its existing rate structure and implemented a new meter-based Water System Replacement Fee (WSRF) in order to recover the cost of the 1% renewal and replacement program for water service lines. It is anticipated that the new Water System Replacement Fee (WSRF) will generate \$40 million per year from fiscal years 2016 through 2025. The fee is based upon meter size and average flow. DC Water's low income CAP customers will receive a 100% credit for this fee.

Meter Size (inches)	Meter Register Type	Monthly Water System Replacement Fee
5/8"	Single Register	\$ 6.30
3/4"	Single Register	\$ 7.39
1"	Single Register	\$ 9.67
1"x1.25"	Single and Multiple Register	\$ 15.40
1.5"	Single Register	\$ 41.35
2"	Single and Multiple Register	\$ 83.75
3"	Single and Multiple Register	\$ 232.13
4"	Single and Multiple Register	\$ 561.02
6"	Single and Multiple Register	\$ 1,292.14
8"	Single Register	\$ 5,785.51
8"x2"	Multiple Register	\$ 1,899.60
8"x4"x1"	Multiple Register	\$ 2,438.35
10"	Single and Multiple Register	\$ 6,679.65
12"	Single and Multiple Register	\$ 6,679.65
16"	Single Register	\$ 6,679.65

System Availability Fee (SAF)

Many utilities have implemented a fee, assessed to new development (or redevelopment) to recover the investment in available system capacity. The DC Water management has recommended a new System Availability Fee (SAF) to be effective from April 1, 2016. All Residential Customers with meters 1 inch or smaller will use the same set of fees. All Residential Customers with meters larger than 1", and all Multi-Family and Non-Residential Customers will have SAF based on their meter size.

The proposed System Availability Fee will be assessed for all new buildings, structures or properties under development and properties under redevelopment. For properties under redevelopment, DC Water will determine the net System Availability Fee by determining the property's proposed capacity requirements and applying a credit for the capacity of accounts being removed from the system. However, if the associated credit for capacity removed is equal to or greater than the future System Availability Fee, the net System Availability Fee shall be zero. Properties under redevelopment shall not receive a credit for accounts that are inactive for more than 12 months.

Effective April 1, 2016, DCRA Construction Permit Applicants and federal facilities shall be assessed a System Availability Fee (SAF) for new water and sewer connections and renovation or redevelopment projects for existing connections to the District's potable water and sanitary sewer systems based on the SAF meter size in accordance with the following fee schedule and requirements:

- (a) Residential customers shall be charged a System Availability Fee based on the SAF meter size as listed below:

SAF Meter Size (inches)	Water System Availability Fee	Sewer System Availability Fee	Total System Availability Fee
5/8"	\$ 1,135	\$ 2,809	\$ 3,944
3/4"	\$ 1,135	\$ 2,809	\$ 3,944
1"	\$ 1,135	\$ 2,809	\$ 3,944
1"x1.25"	\$ 2,047	\$ 5,066	\$ 7,113
1.5"	\$ 5,491	\$ 13,591	\$ 19,082
2"	\$ 11,125	\$ 27,536	\$ 38,661

- (b) Multi-Family and all Non-Residential customers shall be charged a System Availability Fee based on the SAF meter size as listed below:

SAF Meter Size (inches)	Water System Availability Fee	Sewer System Availability Fee	Total System Availability Fee
1" or smaller	\$ 1,282	\$ 3,173	\$ 4,455
1"x1.25"	\$ 2,047	\$ 5,066	\$ 7,113
1.5"	\$ 5,491	\$ 13,591	\$ 19,082
2"	\$ 11,125	\$ 27,536	\$ 38,661
3"	\$ 32,500	\$ 80,442	\$ 112,942
4"	\$ 83,388	\$ 206,394	\$ 289,782
6"	\$ 229,246	\$ 567,408	\$ 796,654
8"	\$ 229,246	\$ 567,408	\$ 796,654
8"x2"	\$ 229,246	\$ 567,408	\$ 796,654
8"x4"x1"	\$ 229,246	\$ 567,408	\$ 796,654
10"	\$ 229,246	\$ 567,408	\$ 796,654
12"	\$ 229,246	\$ 567,408	\$ 796,654
16"	\$ 229,246	\$ 567,408	\$ 796,654

The following terms are defined:

Development – the construction of a premises, building or structure that establishes a new water and/or sewer connection.

Redevelopment – the renovation or alteration of a premises, building or structure or reconstruction of a property that increases or decreases the water supply demand or drainage, waste, and vent (DWV) system load. Redevelopment shall not include the up-sizing of a water service or sewer lateral to comply with the D.C. Construction Codes Supplement, provided the water supply demand and DMV system load remain the same.

System Availability Fee – A one-time fee assessed to a property owner of any premises, building or structure to recover the cost of system capacity servicing all metered water service and sanitary sewer connections and renovation or redevelopment projects that require an upsized meter service connection to the District’s potable water system. The fee is assessed based on the peak water demand, excluding fire demand, for new meter water service connection and renovation or redevelopment projects that increase the peak water demand and associated SAF meter size for the property.

Effective October 2015, the Board increased rates and fees as follows:

- Water volumetric rates:
 - Residential customers: “Consumption of 0 – 4 Ccf” - water rate decreased by \$0.80 per Ccf, {\$1.07 per 1,000 gallons} from \$3.88 per Ccf to \$3.08 per Ccf, {\$4.12 per 1,000 gallons}
 - Residential customers: “Consumption greater than 4 Ccf” - water rate decreased by \$0.01 per Ccf, {\$0.01 per 1,000 gallons} from \$3.88 per Ccf to \$3.87 per Ccf, {\$5.17 per 1,000 gallons}
 - Multi-family customers: water rate decreased by \$0.43 per Ccf, {\$0.57 per 1,000 gallons} from \$3.88 per Ccf to \$3.45 per Ccf, {\$4.61 per 1,000 gallons}
 - Non-Residential customers: water rate increased by \$0.11 per Ccf, {\$0.15 per 1,000 gallons} from \$3.88 per Ccf to \$3.99 per Ccf, {\$5.33 per 1,000 gallons}
- Sewer rate increased by \$0.70 per Ccf, {\$0.94 per 1,000 gallons} for all classes of customers from \$4.74 per Ccf to \$5.44 per Ccf, {\$7.27 per 1,000 gallons}
- Monthly Clean Rivers Impervious Area Charge (CRIAC) increased by \$3.55 from \$16.75 per ERU to \$20.30 per ERU
- Clean Rivers Impervious Area Surface Charge (CRIAC) six-tier residential rate structure is shown in the table below:

Tiers	Residential Impervious Area Range	ERU
Tier 1	100 – 600 sq ft	0.6 ERU
Tier 2	700 – 2,000 sq ft	1.0 ERU
Tier 3	2,100 – 3,000 sq ft	2.4 ERU
Tier 4	3,100 – 7,000 sq ft	3.8 ERU
Tier 5	7,100 – 11,000 sq ft	8.6 ERU
Tier 6	11,100 sq ft and more	13.5 ERU

- Implemented a new fixed monthly fee, Water System Replacement Fee (WSRF) to recover the costs of 1% renewal and replacement program for water service lines. This fee varies with meter size. WSRF for 5/8” meter size is \$6.30.

- Right-of-Way Fee – This fee recovers the full cost of the Right-of-Way Fee charged to DC Water by the District of Columbia
 - There is no increase in the Right-of-Way Fee, which remains the same at \$0.17 per Ccf, (\$0.23 per 1,000 gallons)
- Payment-in-Lieu of Taxes Fee – This fee recovers the cost of providing municipal services to DC Water by the District of Columbia. On September 4, 2014 the District and the Authority entered into a new Memorandum of Understanding (the “2014 PILOT MOU”) amending the 1998 PILOT MOU. According to the MOU, the Authority shall increase the amount of the PILOT payment by two percent per annum based on the amount of prior year’s annual PILOT payment.
 - Increase of \$0.01 per Ccf in the PILOT fee (\$0.01 per 1,000 gallons) to \$0.47 per Ccf, (\$0.63 per 1,000 gallons)
- These changes increased the typical residential customer’s total monthly bill by \$11.36 or 13.3 percent

The Board has proposed the following rates and fee increases for rate making, to be, effective October 2016:

- Water volumetric rates:
 - Residential customers: “Consumption of 0 – 4 Ccf” - water rate increase of \$0.15 per Ccf, {\$0.20 per 1,000 gallons} from \$3.08 per Ccf to \$3.23 per Ccf, {\$4.32 per 1,000 gallons}
 - Residential customers: “Consumption greater than 4 Ccf” - water rate increase of \$0.19 per Ccf, {\$0.26 per 1,000 gallons} from \$3.87 per Ccf to \$4.06 per Ccf, {\$5.43 per 1,000 gallons}
 - Multi-family customers: water rate increase of \$0.17 per Ccf, {\$0.23 per 1,000 gallons} from \$3.45 per Ccf to \$3.62 per Ccf, {\$4.84 per 1,000 gallons}
 - Non-Residential customers: water rate increase of \$0.20 per Ccf, {\$0.27 per 1,000 gallons} from \$3.99 per Ccf to \$4.19 per Ccf, {\$5.60 per 1,000 gallons}
- Sewer rate increase of \$0.27 per Ccf, {\$0.36 per 1,000 gallons} for all classes of customers from \$5.44 per Ccf to \$5.71 per Ccf, {\$7.63 per 1,000 gallons}
- Monthly Clean Rivers Impervious Area Charge (CRIAC) increase of \$1.94 from \$20.30 per ERU to \$22.24 per ERU
- The WSRF recovers the costs of 1% renewal and replacement program for water service lines. WSRF varies with meter size. There will be no increase in WSRF, which will remain same as in FY 2016. WSRF for 5/8” meter size is \$6.30.
- PILOT and Right-of-Way fee – These fees are proposed to increase to recover the full cost of the PILOT and Right-of-Way fees charged to DC Water by the District of Columbia
 - Increase of \$ 0.01 in the PILOT fee, {\$0.01 per 1,000 gallons} to \$0.48 per Ccf, {\$0.64 per 1,000 gallons}
 - There is no increase in Right-of-Way fee, which remains the same at \$0.17 per Ccf, {\$0.23 per 1,000 gallons}

The Board has proposed the following rates and fee increases for rate making, to be, effective October 2017:

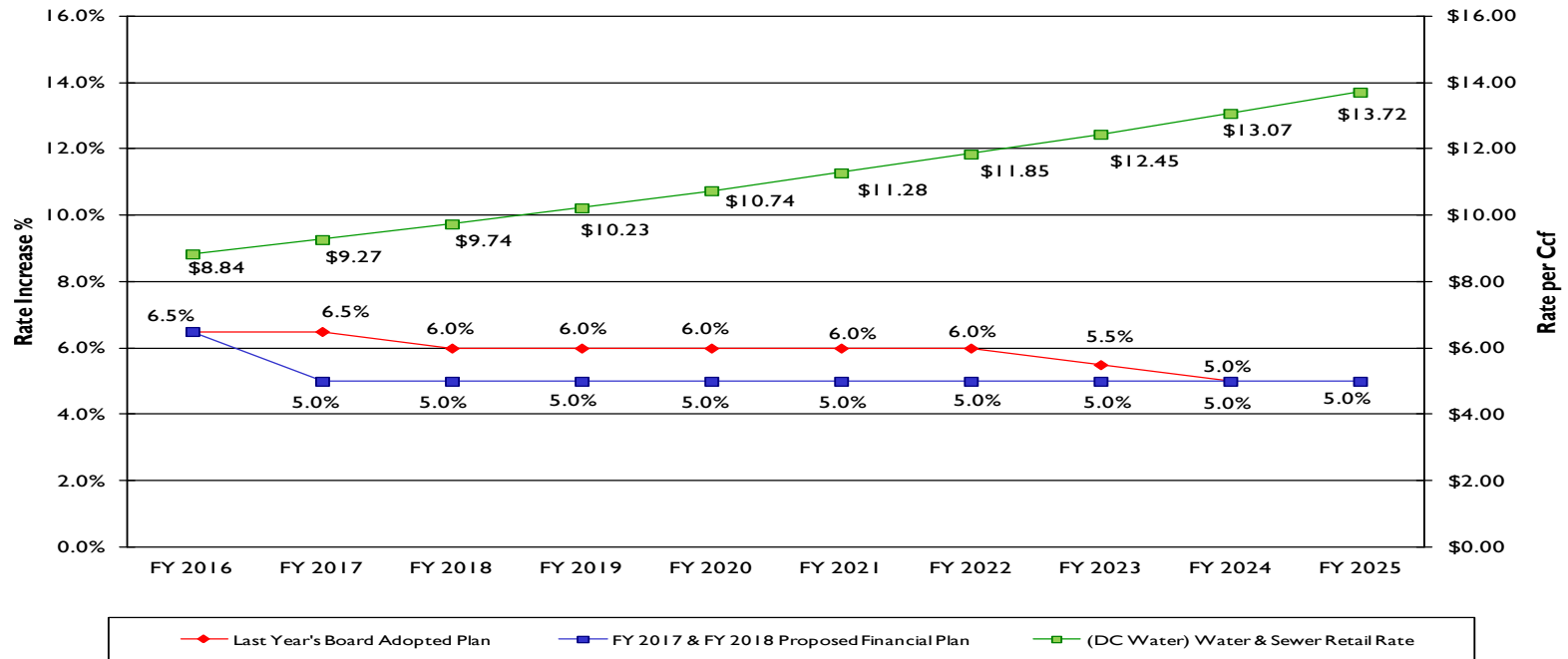
- Water volumetric rates:
 - Residential customers: “Consumption of 0 – 4 Ccf” - water rate increase of \$0.16 per Ccf, {\$0.21 per 1,000 gallons} from \$3.23 per Ccf to \$3.39 per Ccf, {\$4.53 per 1,000 gallons}
 - Residential customers: “Consumption greater than 4 Ccf” - water rate increase of \$0.20 per Ccf, {\$0.27 per 1,000 gallons} from \$4.06 per Ccf to \$4.26 per Ccf, {\$5.70 per 1,000 gallons}
 - Multi-family customers: water rate increase of \$0.18 per Ccf, {\$0.24 per 1,000 gallons} from \$3.62 per Ccf to \$3.80 per Ccf, {\$5.08 per 1,000 gallons}
 - Non-Residential customers: water rate increase of \$0.21 per Ccf, {\$0.28 per 1,000 gallons} from \$4.19 per Ccf to \$4.40 per Ccf, {\$5.88 per 1,000 gallons}
- Sewer rate increase of \$0.29 per Ccf, {\$0.39 per 1,000 gallons} for all classes of customers from \$5.71 per Ccf to \$6.00 per Ccf, {\$8.02 per 1,000 gallons}
- Monthly Clean Rivers Impervious Area Charge (CRIAC) increase of \$2.94 from \$22.24 per ERU to \$25.18 per ERU
- Water System Replacement Fee (WSRF) will remain the same. This fee varies with meter size. The WSRF is to recover the costs of 1% renewal and replacement program for water service lines. WSRF for 5/8” meter size is \$6.30.
- PILOT and Right-of-Way fee – These fees are proposed to increase to recover the full cost of the PILOT and Right-of-Way fees charged to DC Water by the District of Columbia
 - Increase of \$0.01 in the PILOT fee, {\$0.01 per 1,000 gallons} to \$0.49 per Ccf, {\$0.65 per 1,000 gallons}
 - Increase of \$0.01 in the Right-of-Way fee, {\$0.01 per 1,000 gallons} to \$0.18 per Ccf, {\$0.24 per 1,000 gallons}

The ten-year projected water and sewer rate increases under this year's plan (FY 2016 – FY 2025) total 51.5 percent driven primarily by capital spending for DC Water's \$3.66 billion capital improvement program.

Primary spending in the ten-year capital plan includes: DC Clean Rivers Project (CSO LTCP), Enhanced Nitrogen Removal Facilities and various on-going water and sewer infrastructure improvements.

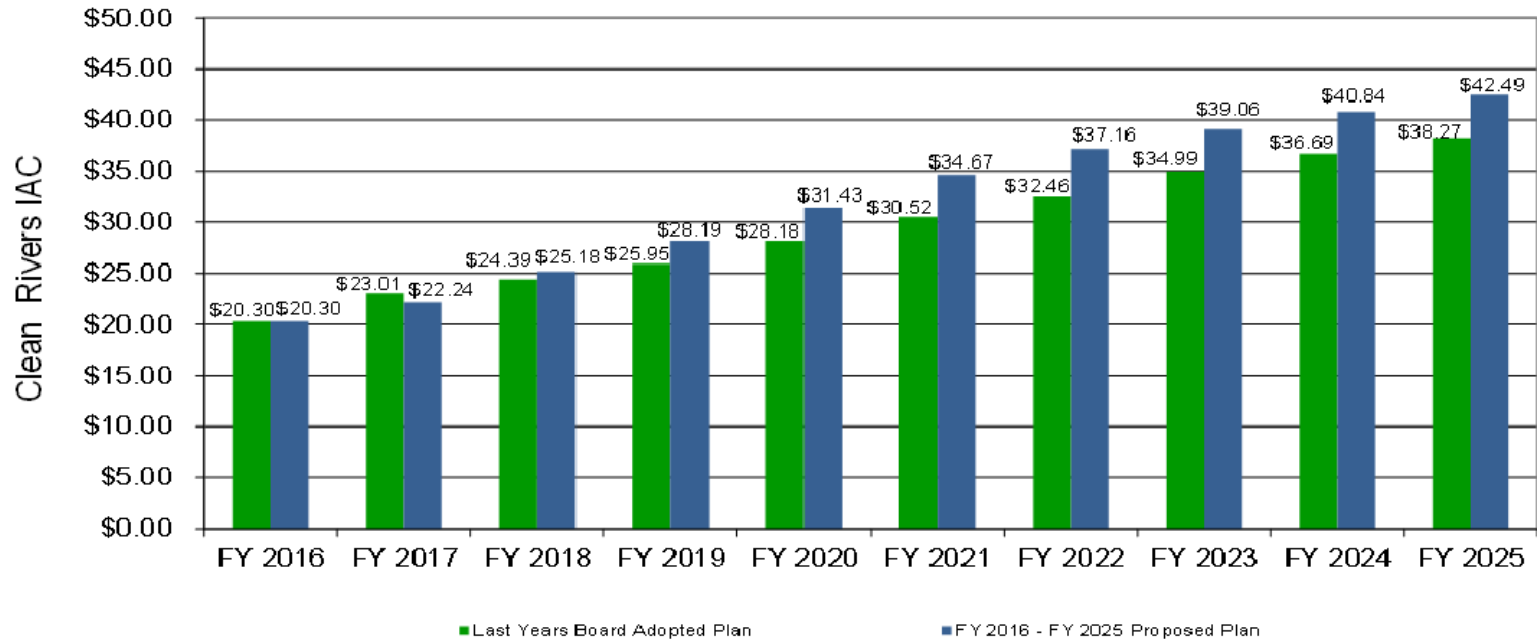
The public outreach and comment process for the FY 2017 rate proposal will occur between April and June 2016. If approved, these changes will increase the typical residential customer's monthly bill by \$4.93 or 5.1 percent in FY 2017 and by \$6.19 or 6.1 percent in FY 2018 as shown on page IV-24.

PROJECTED RETAIL WATER & SEWER RATE CHANGES FY 2016 – FY 2025



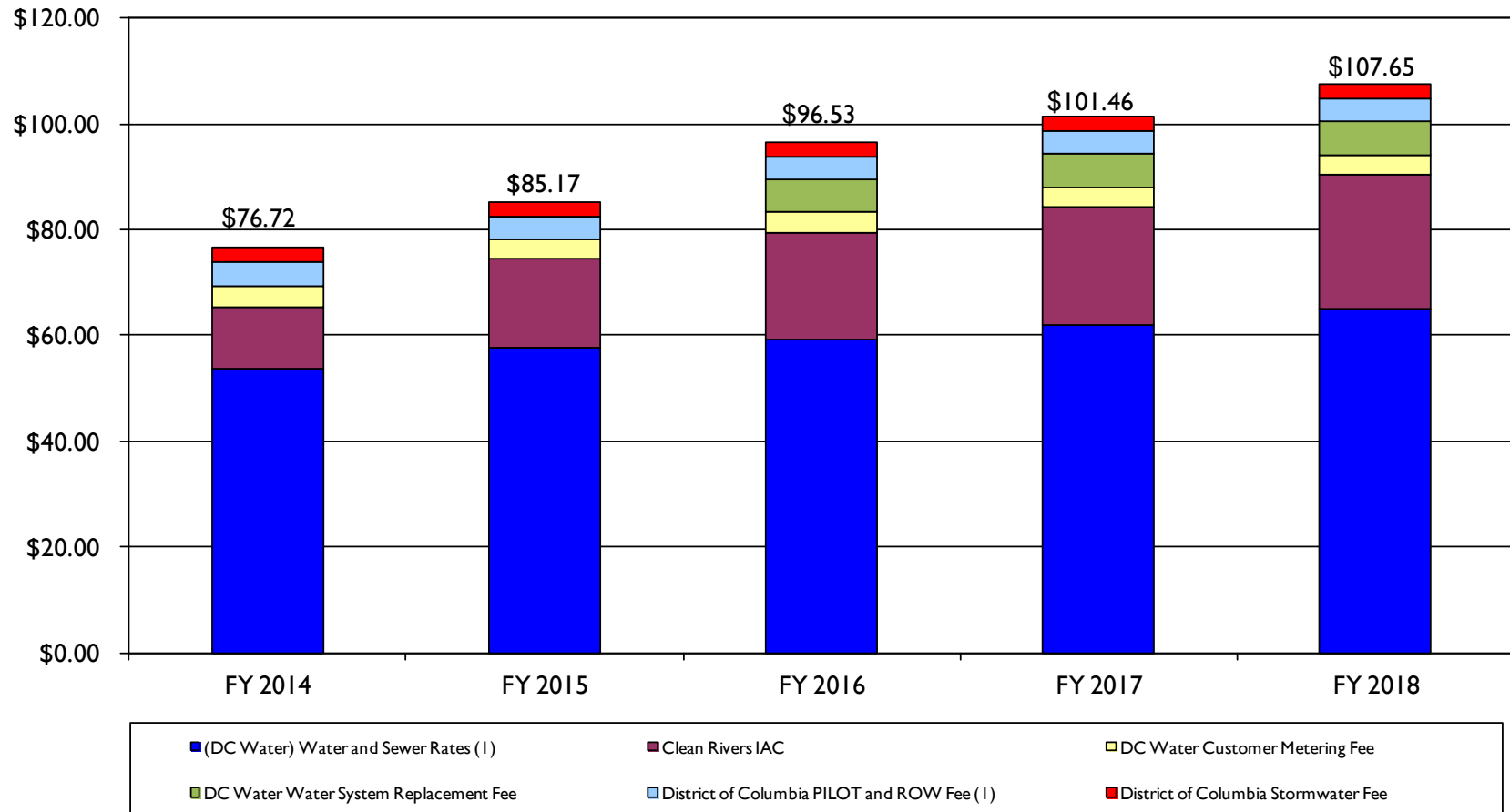
- 1) Rates shown above reflect weighted water and sewer rates for Residential customer category
- 2) In FY 2017 proposed water and sewer rate increase of \$0.43 per Ccf, (\$0.57 per 1,000 gallons)
 - Combined water and sewer rate increases from \$8.84 to \$9.27 per Ccf
- 3) In FY 2018 proposed water and sewer rate increase of \$0.47 per Ccf, (\$0.63 per 1,000 gallons)
 - Combined water and sewer rate increases from \$9.27 to \$9.74 per Ccf
- 4) Rate increases of 5.0 percent for the period FY 2017 to FY 2025

PROJECTED MONTHLY CLEAN RIVERS IMPERVIOUS SURFACE AREA CHARGE (CRIAC) CHANGES FY 2016 – FY 2025



- The projected charges displayed in the chart above are primarily driven by anticipated debt service costs necessary to support the twenty year \$2.6 billion Clean Rivers Project, which includes the federally mandated CSO-LTCP and the nine-minimum controls program
- The annual Clean Rivers Project costs for the average Tier 2 residential customer (700 – 2,000 sq ft of impervious area) is projected to increase from \$266.88 in FY 2017 to \$509.88 in FY 2025

AVERAGE RESIDENTIAL CUSTOMER MONTHLY BILL FY 2014 – FY 2018



- I) Assumes average monthly consumption of 6.69 Ccf, or 5,004 gallons
 – FY 2017 cost per gallon is \$0.01 (water and sewer rates only)

**AVERAGE RESIDENTIAL CUSTOMER MONTHLY BILL
FY 2014 – FY 2018**

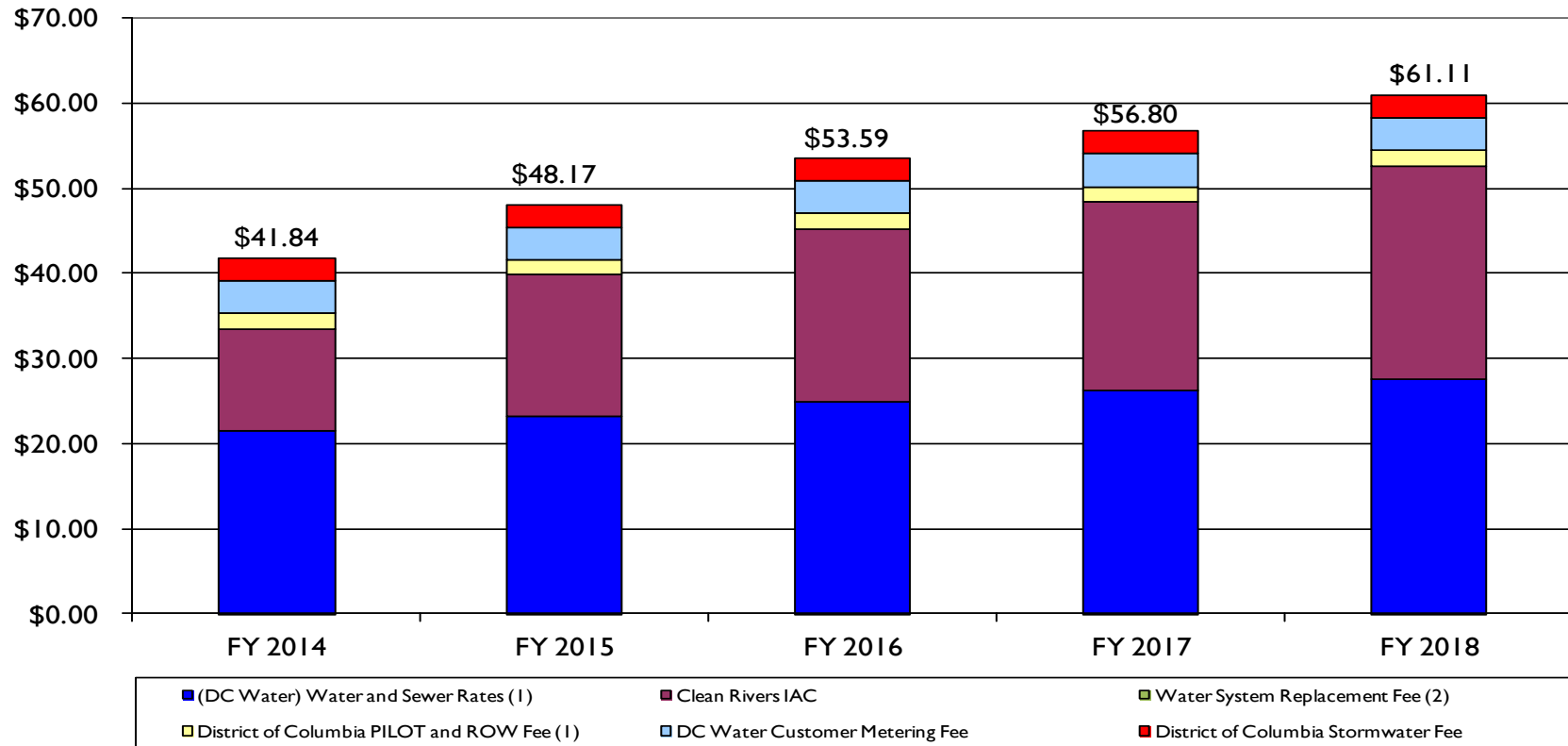
	Units		FY 2014		FY 2015		Current FY 2016		Proposed FY 2017		Proposed FY 2018
DC Water and Sewer Retail Rates ⁽¹⁾	Ccf	\$	53.65	\$	57.67	\$	59.12	\$	62.04	\$	65.16
DC Water Clean Rivers IAC	ERU		11.85		16.75		20.30		22.24		25.18
DC Water Customer Metering Fee	5/8"		3.86		3.86		3.86		3.86		3.86
DC Water Water System Replacement Fee ⁽³⁾	5/8"		-		-		6.30		6.30		6.30
Subtotal DC Water Rates & Charges		\$	69.36	\$	78.28	\$	89.58	\$	94.44	\$	100.50
Increase / Decrease		\$	5.09	\$	8.92	\$	11.30	\$	4.86	\$	6.06
District of Columbia PILOT ⁽¹⁾	Ccf	\$	3.55	\$	3.08	\$	3.14	\$	3.21	\$	3.28
District of Columbia Right-of-Way Fee ⁽¹⁾	Ccf		1.14		1.14		1.14		1.14		1.20
District of Columbia Stormwater Fee ⁽²⁾	ERU		2.67		2.67		2.67		2.67		2.67
Subtotal District of Columbia Charges		\$	7.36	\$	6.89	\$	6.95	\$	7.02	\$	7.15
Total Amount Appearing on DC Water Bill		\$	76.72	\$	85.17	\$	96.53	\$	101.46	\$	107.65
Increase / Decrease Over Prior Year		\$	5.36	\$	8.45	\$	11.36	\$	4.93	\$	6.19
Percent Increase in Total Bill			7.5%		11.0%		13.3%		5.1%		6.1%

(1) Assumes average monthly consumption of 6.69 Ccf, or (5,004 gallons)

(2) District Department of the Environment stormwater fee of \$2.67 effective November 1, 2010

(3) DC Water "Water System Replacement Fee" fee of \$6.30 for 5/8" meter size effective October 1, 2015

AVERAGE CAP CUSTOMER MONTHLY BILL FY 2014 – FY 2018



1. Assumes average monthly consumption of 6.69 Ccf, or 5,004 gallons
 - FY 2017 & FY 2018 cost per gallon is \$0.01 (water and sewer rates only)
2. Assumes 100 percent discount for Water System Replacement Fee (WSRF) to CAP customers, therefore, WSRF is not shown in the above graph

AVERAGE CAP CUSTOMER MONTHLY BILL FY 2014 – FY 2018

	Units	FY 2014	FY 2015	Current FY 2016	Proposed FY 2017	Proposed FY 2018
DC Water Retail Rates ⁽¹⁾	Ccf	\$ 53.65	\$ 57.67	\$ 59.12	\$ 62.04	\$ 65.16
DC Water Clean Rivers IAC	ERU	11.85	16.75	20.30	22.24	25.18
DC Water Customer Metering Fee	5/8"	3.86	3.86	3.86	3.86	3.86
DC Water Water System Replacement Fee	5/8"	-	-	6.30	6.30	6.30
Subtotal DC Water Rates & Charges		\$ 69.36	\$ 78.28	\$ 89.58	\$ 94.44	\$ 100.50
Increase / Decrease		\$ 5.09	\$ 8.92	\$ 11.30	\$ 4.86	\$ 6.06
District of Columbia PILOT ⁽¹⁾	Ccf	\$ 3.55	\$ 3.08	\$ 3.14	\$ 3.21	\$ 3.28
District of Columbia Right-of-Way Fee ⁽¹⁾	Ccf	1.14	1.14	1.14	1.14	1.20
District of Columbia Stormwater Fee ⁽⁴⁾	ERU	2.67	2.67	2.67	2.67	2.67
Subtotal District of Columbia Charges		\$ 7.36	\$ 6.89	\$ 6.95	\$ 7.02	\$ 7.15
Total Amount		\$ 76.72	\$ 85.17	\$ 96.53	\$ 101.46	\$ 107.65
Less: CAP Discount (4 Ccf per month) ^{(1), (2)}		\$ (34.88)	\$ (37.00)	\$ (36.64)	\$ (38.36)	\$ (40.24)
Water System Replacement Fee (WSRF) ⁽³⁾		\$ -	\$ -	\$ (6.30)	\$ (6.30)	\$ (6.30)
Total Amount Appearing on DC Water Bill		\$ 41.84	\$ 48.17	\$ 53.59	\$ 56.80	\$ 61.11
Increase / Decrease Over Prior Year		\$ 3.52	\$ 6.33	\$ 5.42	\$ 3.21	\$ 4.31
CAP Customer Discount as a Percent of Total Bill		-45.5%	-43.4%	-44.5%	-44.0%	-43.2%

(1) Assumes average monthly consumption of 6.69 Ccf, or (5,004 gallons)

(2) Extension of CAP program in FY 2011 to first 4 Ccf of PILOT and ROW

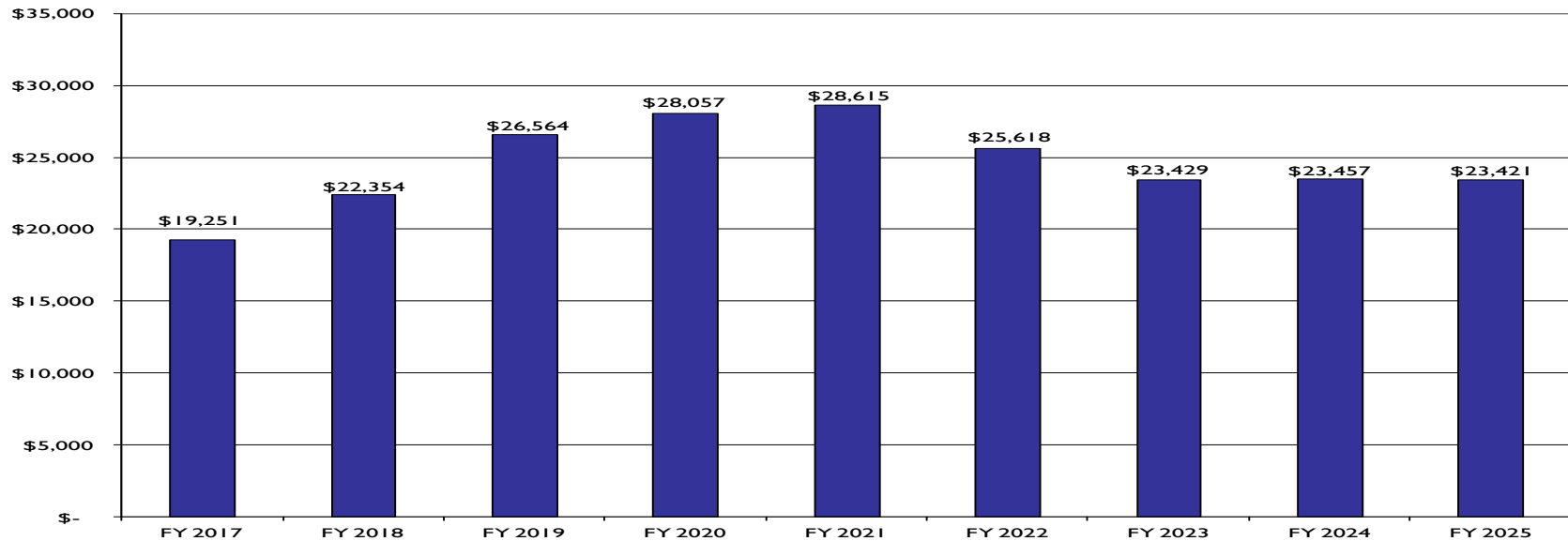
(3) Assumes 100 percent discount for Water System Replacement Fee (WSRF) to CAP customers

(4) District Department of the Environment stormwater fee of \$2.67 effective November 1, 2010

FY 2016 – FY 2025 FINANCIAL PLAN

- As shown in the chart below, incremental increases in retail revenues are projected to range from \$19.3 million to \$28.6 million in FY 2017 – FY 2025, due to:
 - Average annual debt service increase of 6.3 percent
 - Average annual O&M increase of 2.6 percent
 - Annual projected Payment-in-Lieu of Taxes (PILOT) and Right-of-Way (ROW) increases due to DC Government increasing costs of providing services to the District
 - This year’s ten-year financial plan reflects anticipated operating cost savings at Blue Plains beginning in FY 2015 due to the implementation of the digester/cambi biosolids management project

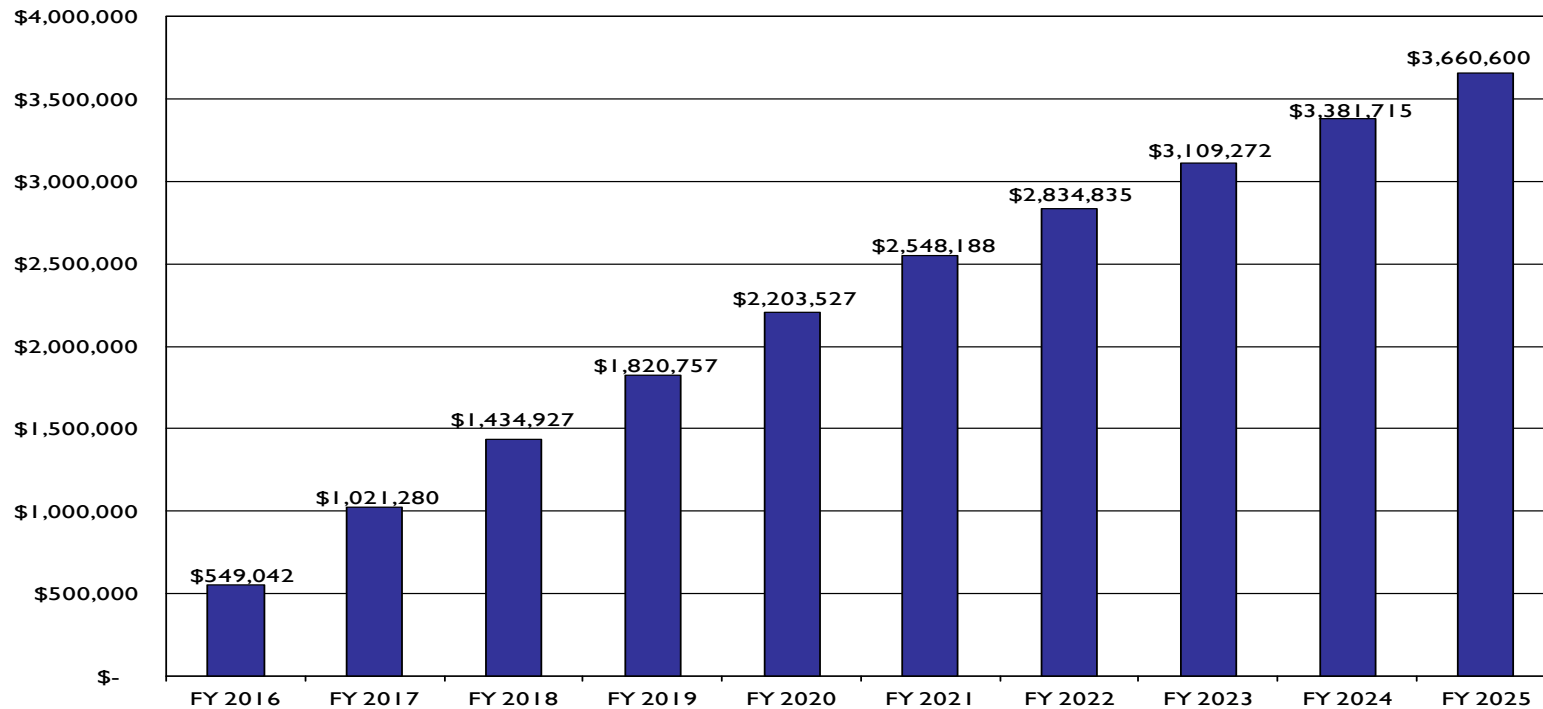
INCREMENTAL INCREASE IN REVENUES
FY 2017 – FY 2025
(\$000's)



- These costs would be recovered through:
 - Proposed water and sewer rate increases of 5.0 percent from FY 2017 to FY 2025
 - Proposed Clean Rivers Impervious Surface Area Charge (CRIAC) revenues ranging from \$22.24 to \$42.49 per ERU per month
 - Proposed DC PILOT fee increases of 2 percent in accordance with the current MOU dated September 4, 2014 to recover the amount of PILOT payment obligation to the District of Columbia
 - The ROW fee will remain the same at \$5.1 million per annum in accordance with the current MOU signed on October 2, 2014 to recover the amount of ROW payment obligation to the District of Columbia
 - Utilization of the Board-authorized Rate Stabilization Fund (RSF) to offset retail rate increases

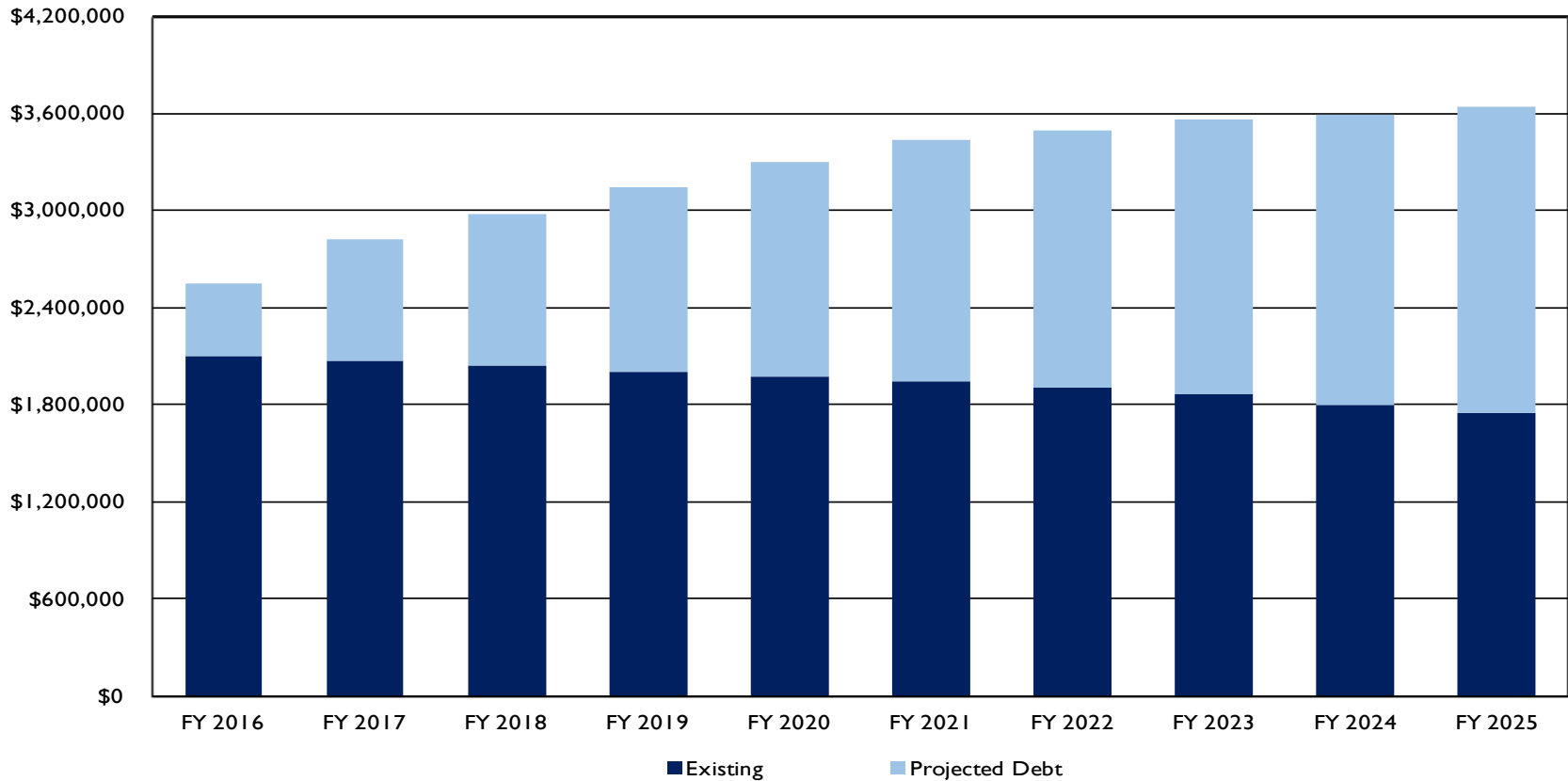
DC Water’s proposed rate increases are primarily required to fund increasing debt service costs from increased capital spending.

CUMULATIVE CAPITAL SPENDING
FY 2016 – FY 2025
 (\$000's)



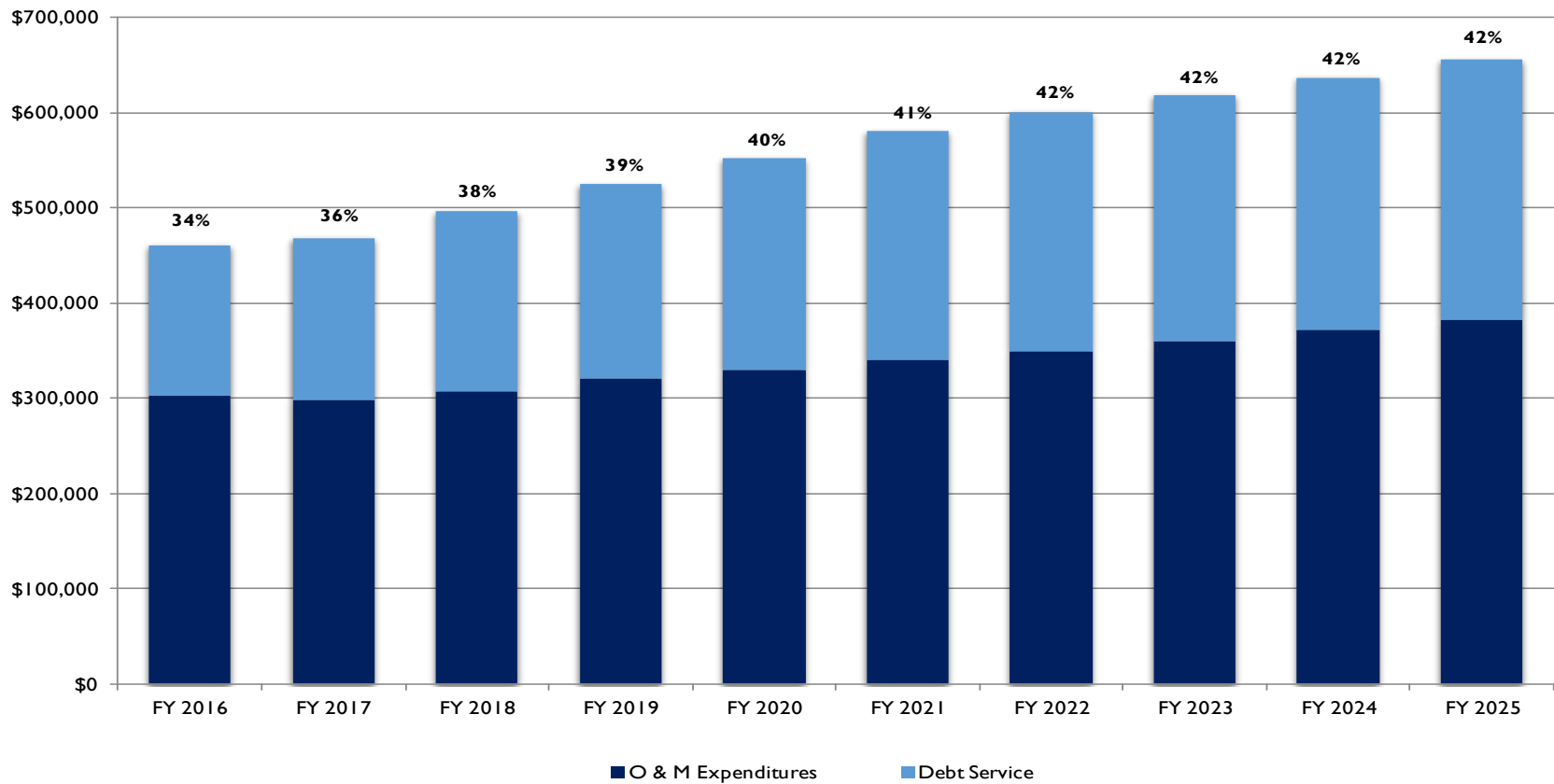
- DC Water’s ten-year capital improvement program totals \$3.66 billion, with annual spending ranging from \$272.4 million to \$549.0 million
- Once completed, the ten-year capital improvement project will double the book value of DC Water’s infrastructure
- The ten-year plan includes disbursements of the Clean Rivers Project (CSO LTCP), totaling nearly \$1.2 billion exclusive of nine minimum controls
- Water and sewer infrastructure continues to drive the ten-year Capital Improvement Plan from FY 2016 through FY 2025

NEW & EXISTING DEBT OUTSTANDING FY 2016 – FY 2025 (\$000's)



- The largest source of funding for DC Water’s capital program is debt
- Over the next ten years, DC Water will issue approximately \$1.8 billion in new debt (which includes the funding of reserves and costs of issuance), increasing total debt outstanding to \$3.6 billion at the end of FY 2025

**DEBT SERVICE AS PERCENT OF TOTAL OPERATING & MAINTENANCE EXPENDITURES
FY 2016 – FY 2025
(\$000's)**



OPERATING & DEBT SERVICE EXPENDITURES FY 2016 – FY 2025

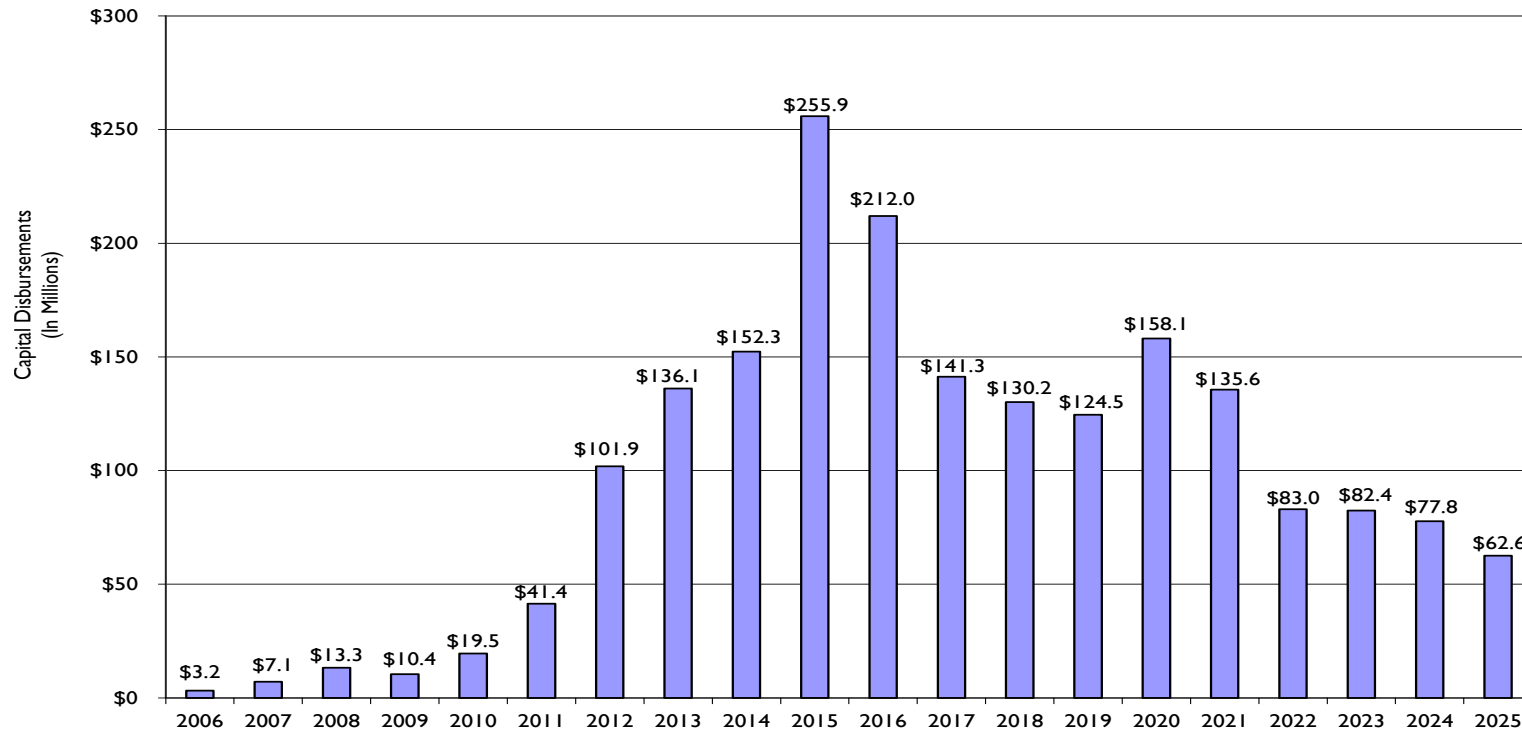
Over the ten-year period, total expenditures increase on average by 4.0 percent annually

DC Water's proposed rate increases are primarily required to fund increasing debt service costs

- Operations and maintenance expenditures (excluding the payment-in-lieu of taxes and right-of-way fee) increase on average by only 2.6 percent annually
- Debt service expenditures grow at an annual average rate of 6.3 percent
- This year's ten-year financial plan reflects anticipated operating cost savings at Blue Plains due to the implementation of the digester/cambi biosolids management project. Digesters commenced operation in FY 2015

POTENTIAL IMPACT OF CSO LONG-TERM CONTROL PLAN ON RATES

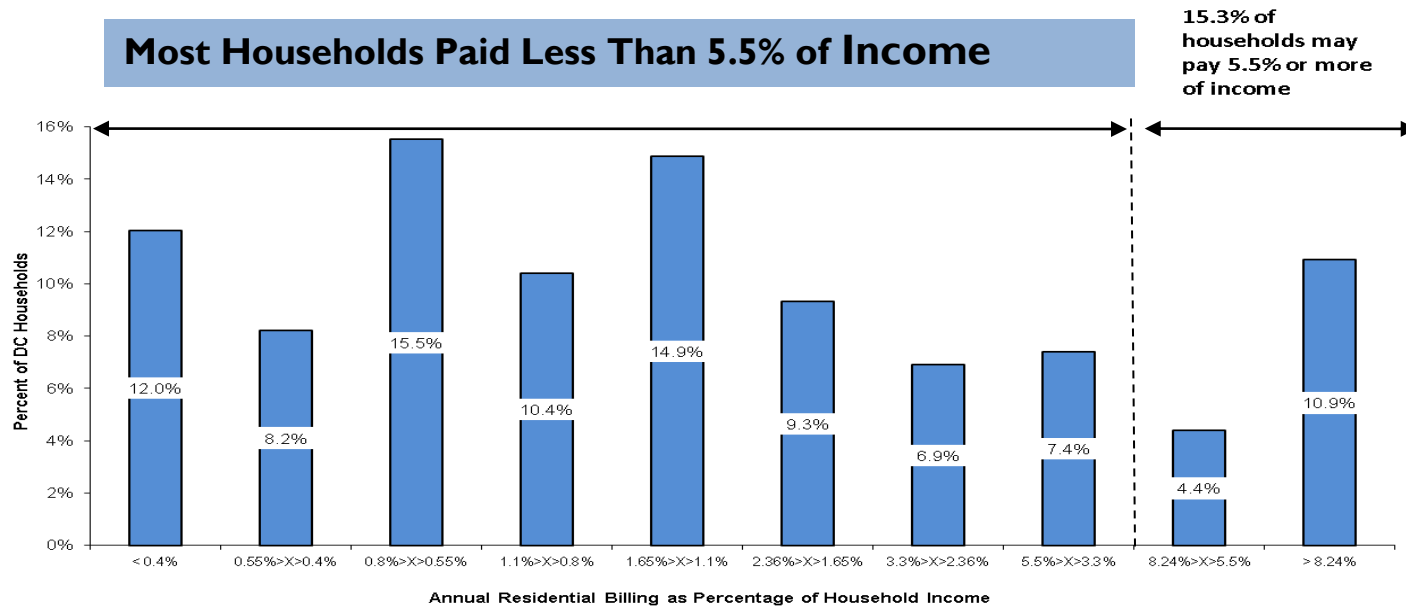
Clean Rivers CSO LTCP Disbursements by Fiscal Year
Clean Rivers CSO LTCP Disbursements by Fiscal Year

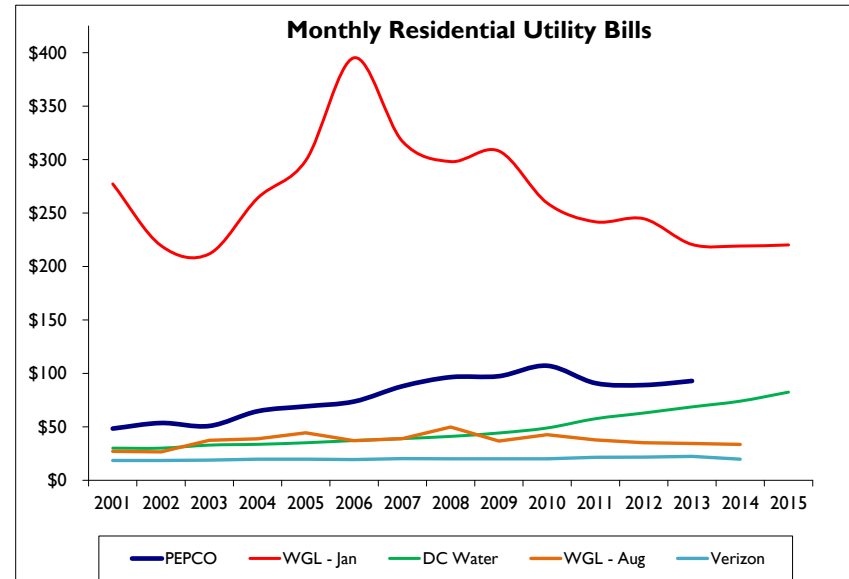
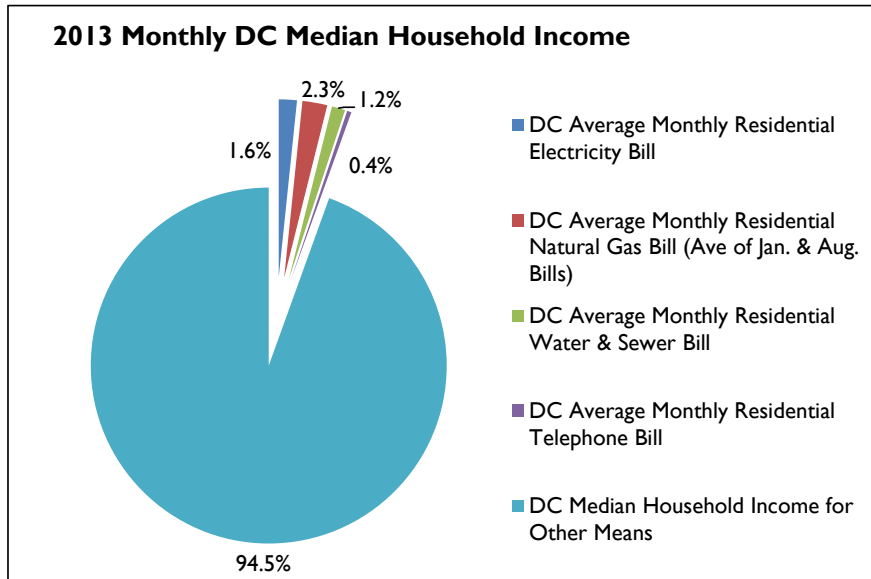


In December 2004, the Board reached an agreement with the federal government on the Clean Rivers Project (CSO-LTCP) and entered into a related consent decree. Actual and projected disbursements by fiscal year for the Clean Rivers Project are shown in the chart above and are the drivers for changes in the Clean Rivers Impervious Area Charge over the ten-year plan. Wholesale customers contribute 7.1 percent to the Clean Rivers Project. To mitigate impacts, DC Water continues to look for federal support for this program. As of September 30, 2015, \$210.8 million has been received through federal appropriations. Lifetime capital costs for the plan (exclusive of the nine – minimum controls program) total approximately \$2.3 billion, and this year’s proposed ten-year plan includes \$1.2 billion of projected Clean Rivers Project disbursements.

DC WATER CHARGES ARE STILL AFFORDABLE AND COMPETITIVE WITH OTHER MAJOR CITIES

- **Median household income:** The average DC Water charges are less than 5.5% of income for 84.7% of the households in the District of Columbia. US EPA guidelines suggest that charges greater than 4% of median household income are typically viewed as a strain on household budgets (2% water + 2% sewer)
- **Typical DC Water residential bill as a percentage of median household income is lower than average when compared to other utilities of similar size**
- **Customer Assistance Programs are in place to help eligible low income customers with their water/sewer bills**





Observation:

- DC Water’s average monthly residential water & sewer bill is about 1.2 percent of the total monthly household income for the median income family, which is lower, compared to the average monthly electricity and natural gas bill and at about the national average for urban populations

Observation:

- Average electricity and natural gas are higher than water & sewer bills

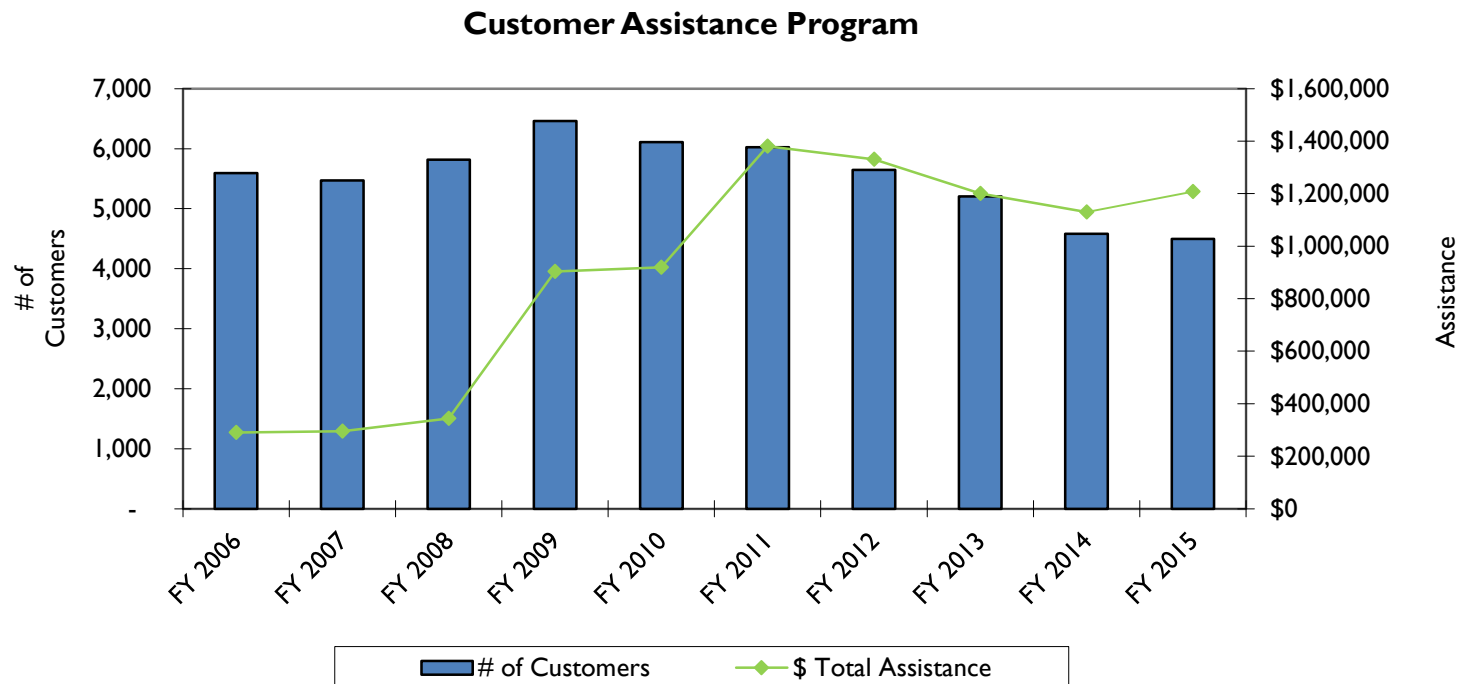
Assumption:

- Average DC customer is assumed to use 6.69 Ccf of water, 200 Therms of natural gas and 695 kWh of electricity per month in 2014

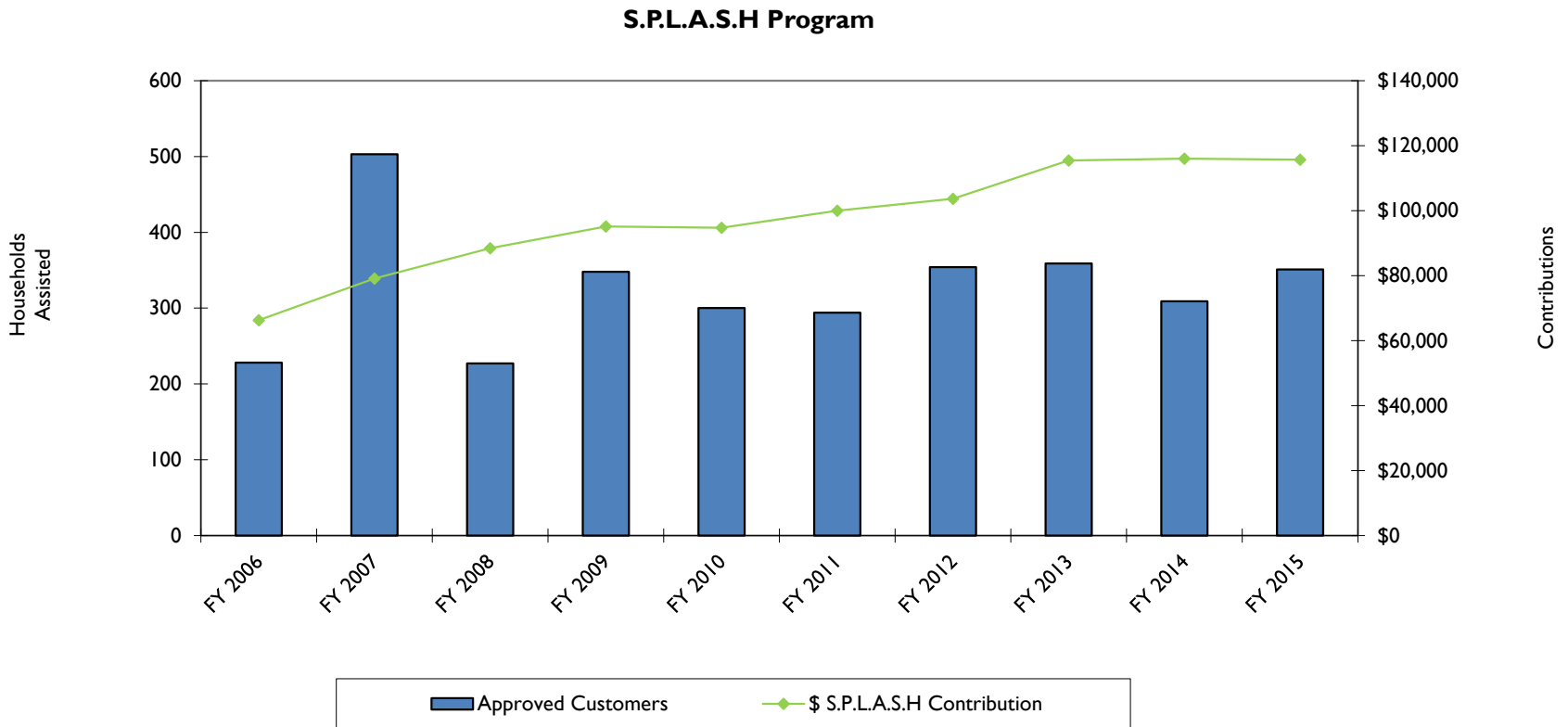
Sources:
 Electricity and Gas: DC Public Service Commission
 Water and Sewer: DC Water Assuming 6.69 Ccf, or 5,004 gallons consumption
 Median HH Income: US Census Bureau, American Community Survey 2013 1-Year Estimates

DC Water sponsors two programs to assist low income customers in paying their water bills:

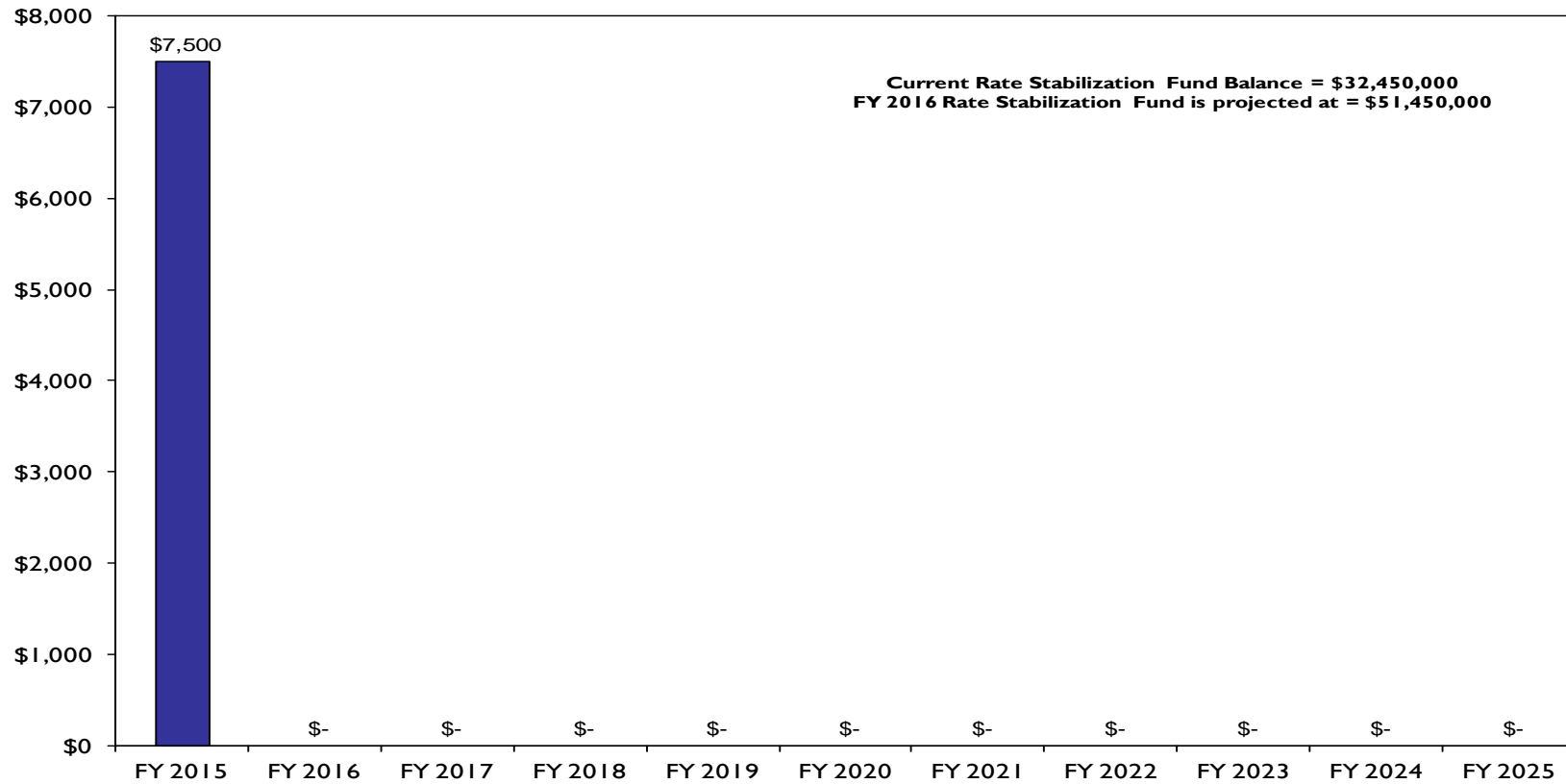
- Customer Assistance Program (“CAP”):** The Authority implemented the CAP in 2001 providing a discount of 4 Ccf per months of water service for single family residential homeowners that meet income eligibility guidelines. In FY 2004, the Authority expanded the CAP to include tenants who meet the financial eligibility requirements and whose primary residence is separately metered by the Authority. In January 2009, the Authority further expanded the CAP to provide a discount of 4 Ccf per month of sewer services to eligible customers. In FY 2011, the discount was expanded to the first 4 Ccf associated with the PILOT/ROW fee in addition to the current discount provided on water and sewer services. In FY 2015, CAP assisted over 4,498 customers and provided \$1.2 million in discounts to low-income customers. In FY 2016, the CAP customers will receive 100 percent credit/discount for the Water System Replacement Fee (WSRF).



- Serving People by Lending a Supporting Hand (“S.P.L.A.S.H”)**: The SPLASH program was implemented in FY 2001. Through the SPLASH program, DC Water offers assistance to families in need so that they can maintain critical water and sewer services until they get back on their feet. The program is administered by the Greater Washington Urban League. Every dollar received by DC Water is distributed to eligible customers. In FY 2015, SPLASH assisted 351 households and provided \$115,684 in contributions to low-income customers.



**RATE STABILIZATION FUND USAGE
FY 2016 – FY 2025
(\$000's)**



- At the end of FY 2015, DC Water’s rate stabilization fund (RSF) balance was \$32.45 million. No RSF is proposed to be utilized from FY 2016 to FY 2025. RSF will have a balance of \$121.45 million at the end of FY 2025.

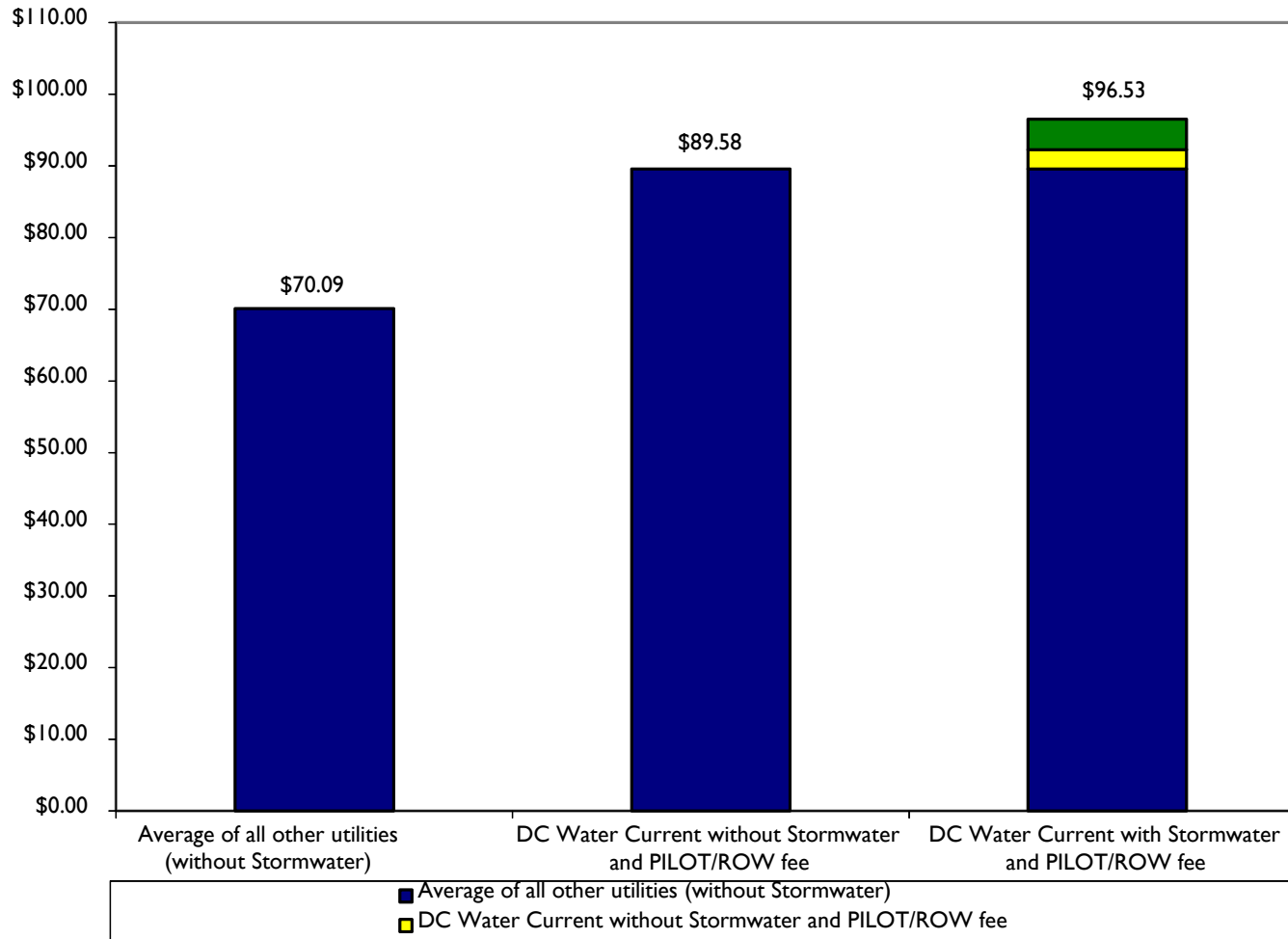
One method of assessing the affordability of residential rates is to calculate the portion of the Median Household Income that would be spent on typical water, wastewater, and stormwater bills and compare the results with the same calculation for other utilities. While no utilities are exactly alike, in the most recent rate survey conducted for DC Water in July 2015, DC Water's charges for a single family residential customer as a percentage of median income were below the average of other large and regional water and wastewater utilities.

The following charts provide DC Water combined water, sewer and stormwater charges for single family residential customers compared to: large CSO communities, other similar large jurisdictions and other regional jurisdictions. There are distinct differences between DC Water and other large and regional utilities. Some differences include:

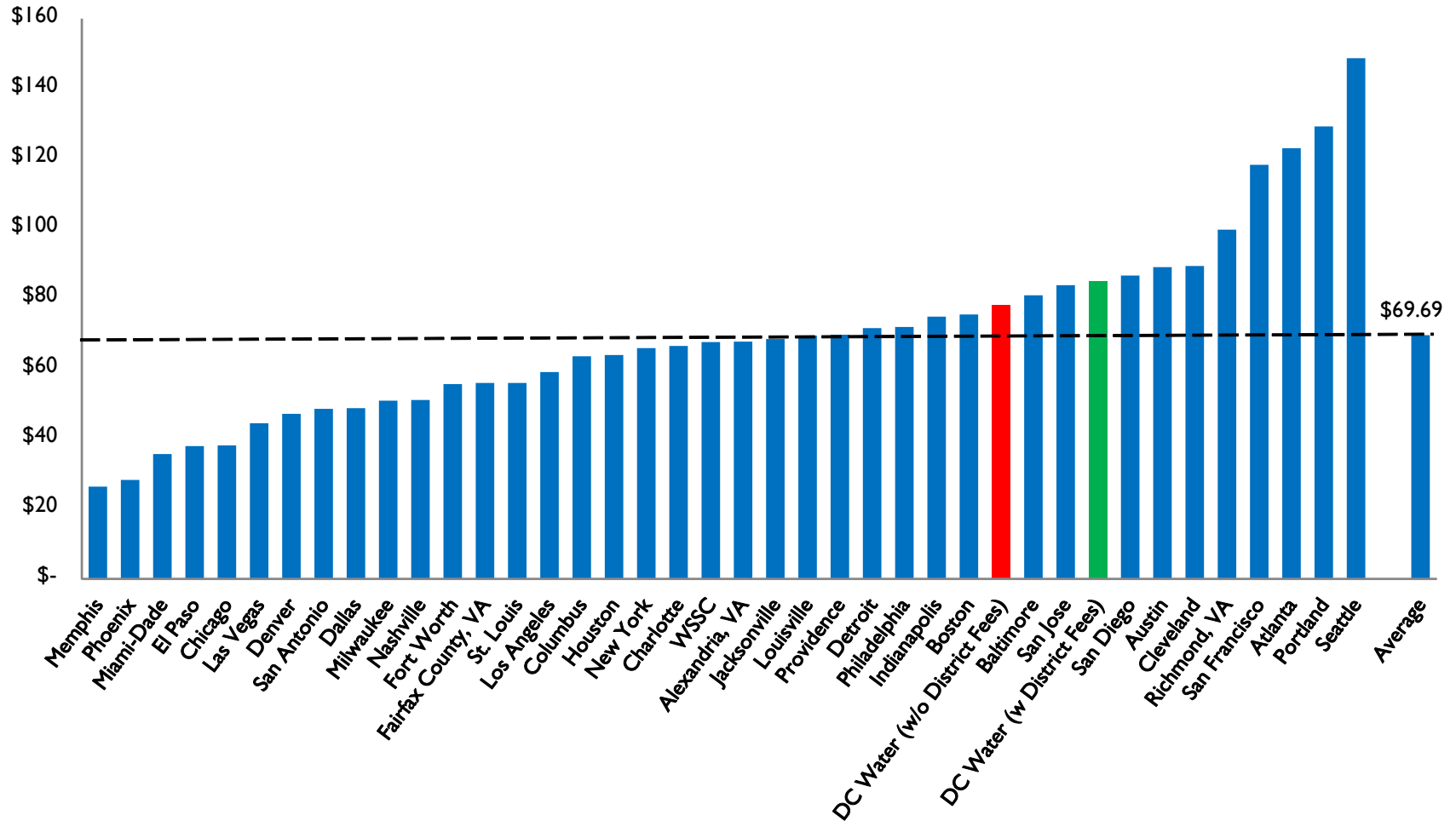
- Different patterns of water use (e.g., suburban jurisdictions can have different demands from urban centers)
- Revenues from taxes that reduce the revenues to be raised from water, sewer and stormwater rates (e.g., WSSC, Alexandria, Arlington, Milwaukee, St. Louis, Atlanta, Chicago, etc.)
- Available undeveloped areas supporting high developer contributions for growth that can again reduce the revenues to be raised from water, sewer and stormwater rates (e.g., Fairfax County)
- Separate sewer systems in certain large jurisdictions and regional jurisdictions (e.g., Dallas)
- Differences in climate that may affect water supply or conservation needs (e.g., Seattle)
- Varying stages of completion of facilities to meet federal mandates (e.g., Atlanta and Boston have completed most of their major investments - the DC Clean Rivers Project is in progress at this time)

DC WATER'S RETAIL RATES ARE COMPARABLE TO OTHER UTILITIES

*DC Water's Current FY 2016 Monthly Residential Bill
vs.
Average Monthly Bill of Other Utilities in Effect Fall 2015*



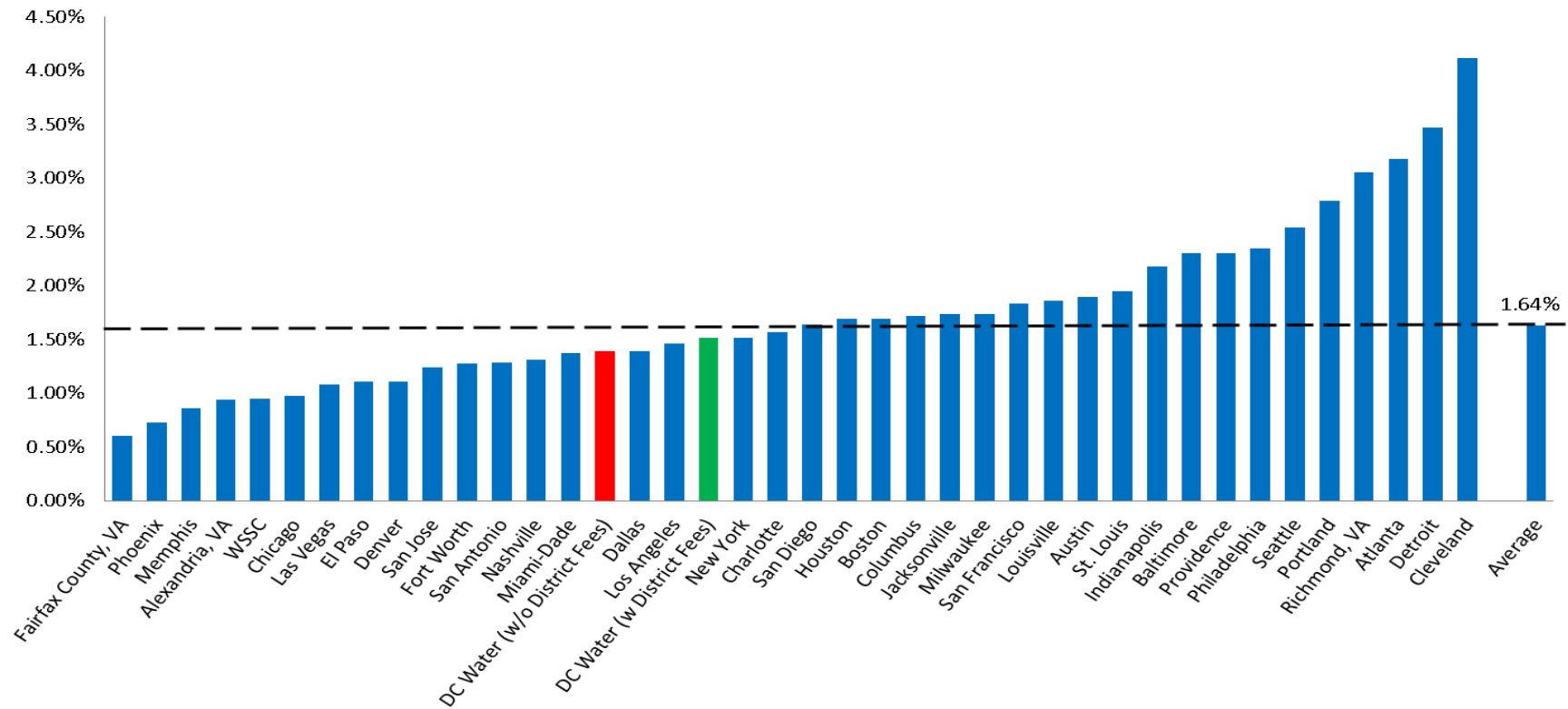
**DC Water Retail Rates Compared to Other Large Utilities
(Based on Rates in effect Fall 2015)**



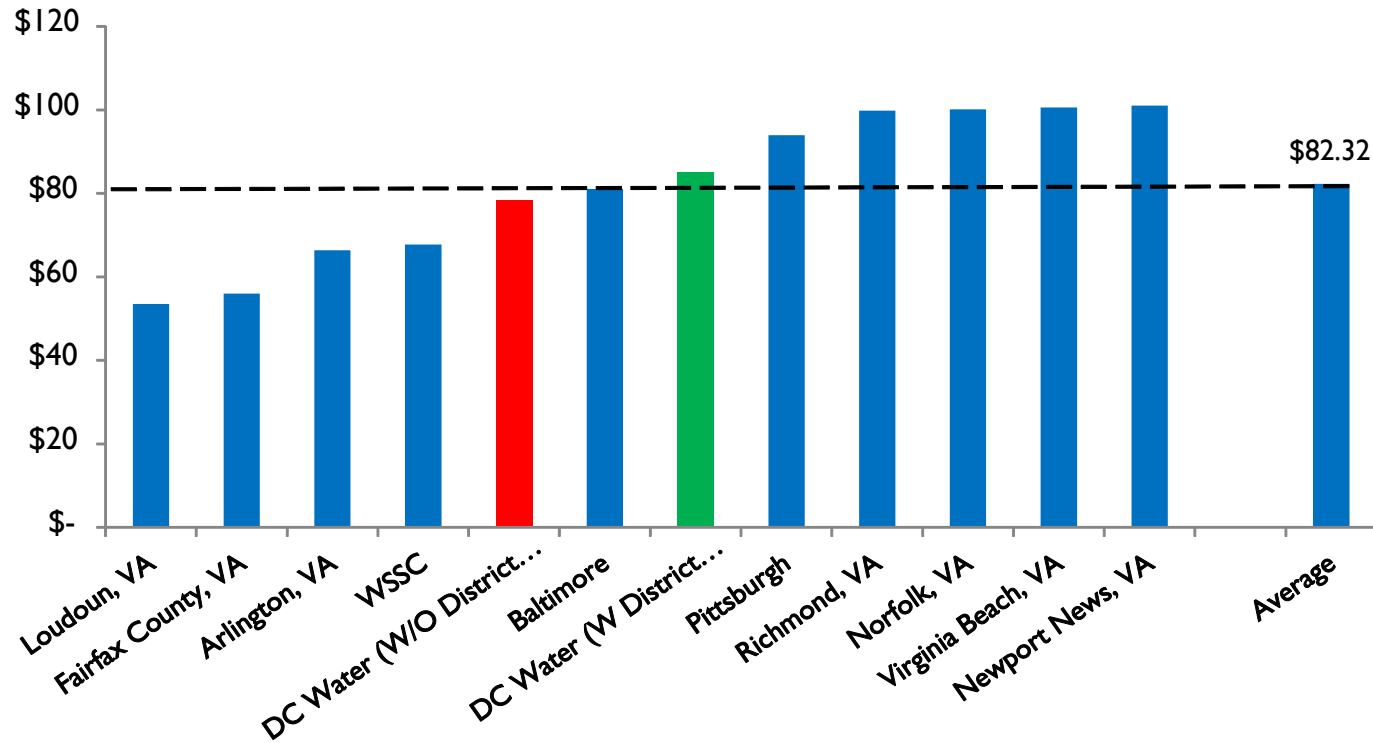
(1) Assumes average residential consumption of 6.69 Ccf, or 5,004 gallons, per month. Ccf = hundred cubic feet, or 748 gallons
 (2) Reflects DC Water's rate and fee changes in FY 2015

In the chart below, DC Water current charges rank at the median for bill comparison purposes for water and wastewater services compared to a select group of large, regional and CSO utilities, but well within US EPA guidance of 4 percent.

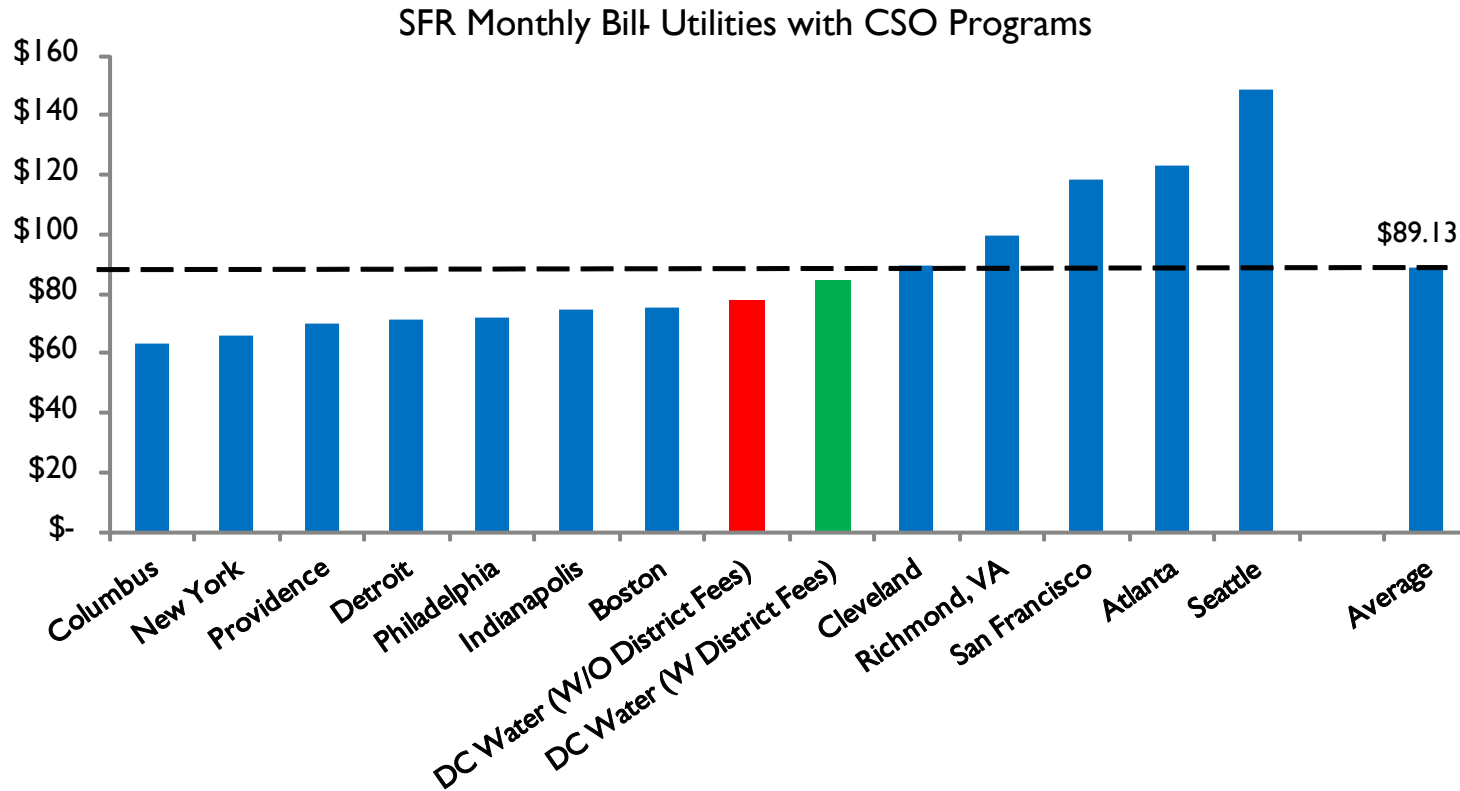
Single Family Residential (SFR) Monthly Bill as % of Median Household Income - Large National Utilities (Based on Rates in effect Fall 2015)



**DC Water Retail Rates Compared to Regional Utilities
(Based on Rates in effect Fall 2015)**



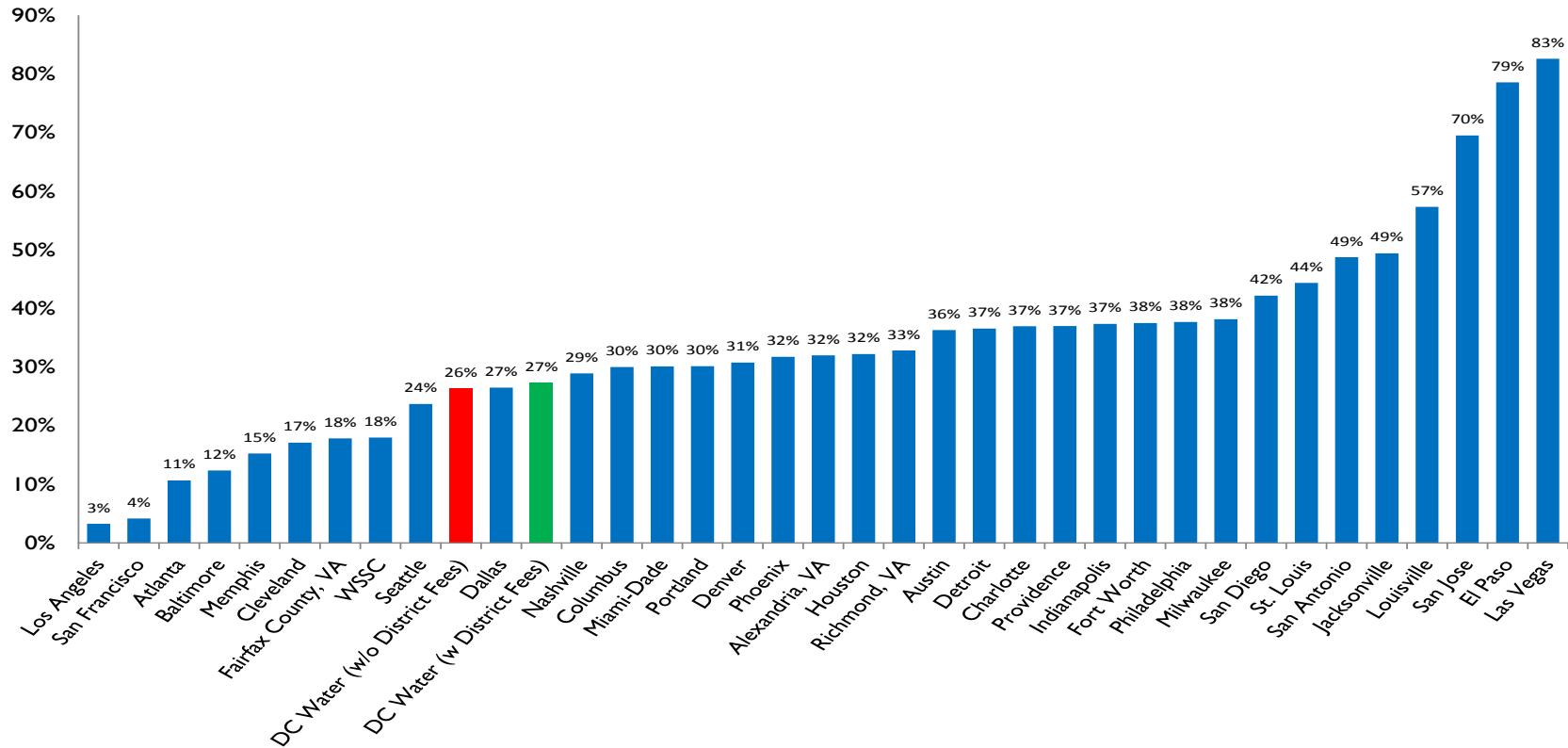
**DC Water Compared to CSO Communities
(Based on Rates in effect Fall 2015)**



- Most CSO communities have implemented double digit rate increases to recover CSO-LTCP costs
- Increases do not reflect other available dedicated taxes or state funding potentially available to some agencies
- Chart reflects SFR monthly bill utilities with CSO programs without offsets to user charges

Fixed charges are a small component of the DC Water monthly bill and is less than median for large utilities. This provides the customer more opportunities to impact monthly bills through water conservation.

**Fixed Charge as % of Total Single-Family Residential Bills in Large Cities
(Based on Rates in effect Fall 2015)**



- User Charges are based upon information provided by the identified cities and standardize assumptions regarding water consumption, wastewater discharge, stormwater drainage area and other factors. Sewer charges include stormwater charges in those cities where separate stormwater fees are assessed. Some cities use property tax revenue or other revenues to pay for the part of the cost of water, wastewater, or stormwater services
- DC Water rate schedule was effective October 1, 2014. Whereas, charges for all cities reflect rate schedules in effect Fall 2015
- DC Water PILOT and ROW fees are split between variable water charges and variable sewer charges
- DC Water charges include the stormwater charges of the District
- CSO/Stormwater charges may cover the cost of CSO abatement facilities in those cities with combined sewers; such charges can also cover the cost of stormwater-related facilities and services



OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section V CAPITAL PROGRAMS



FY 2016 – FY 2025



DC Water Service Area



Blue Plains Advanced Wastewater Treatment Plant



DC Water Headquarters – Central Operating Facility

OVERVIEW

DC Water’s Capital Improvement Program (CIP) supports the continuation of major capital asset investment in programs and projects that will upgrade the District’s water distribution system, improve the condition of our local waterways and create clean energy. The CIP includes all mandated projects as well as rehabilitation of assets required to meet permit and other regulatory requirements and also all immediate needs necessary to maintain existing service levels.

DC Water presents its CIP on two different bases: 10-year disbursement plan and lifetime budget. Actual cash disbursements are critical to forecasting the anticipated level of rate increases and the amount and timing of capital financing. The 10-year disbursement plan provides a more realistic projection of actual “cash out the door” excluding contingencies but including historical and projected completion rates as well as in-house labor. The CIP review process also includes an extensive review of the total project, or “lifetime” budget, which reflects historical spending prior to, during, and beyond the current 10-year period, although excludes in-house labor. Lifetime budgets represent projects active during the 10-year period and are the primary area of focus in budget development and day-to-day monitoring. In addition to ‘Active’ projects, projects for which all activities have been completed during the previous fiscal year and are listed as ‘Closed’ are also included in the CIP. Closed projects are dropped from the CIP in the next fiscal year.

Click [HERE](#) for detailed information on the capital projects.

CIP DEVELOPMENT AND APPROVAL PROCESS

DC Water’s capital budget review process begins each year in the spring. This process includes a review of major accomplishments, priorities, status of major projects, and emerging regulatory and related issues impacting the capital program by the Department of Engineering & Technical Services. Projections of changes in project lifetime budgets are also included. The review process involves the DC Water departments with responsibility for managing the operations of DC Water services and capital projects as well as staff from Finance, Accounting and Budget and Executive Management. The CIP is integrated into DC Water’s 10-year financial plan; because of its size, it is the primary driver of DC Water’s projected rate increases over the current 10-year planning period.

This review process spans over several months and culminated with the presentation of the updated CIP to DC Water’s Board of Directors’ Environmental Quality and Sewerage Services, Water Quality and Water Services, Finance and Budget and DC Retail Water and Sewer Rates Committees in November 2015. The operating budgets, capital improvement program, and ten-year financial plan were forwarded to the full Board for consideration and action in December.

After adoption by the Board of Directors, DC Water is required to submit its annual operating and capital budget to the Mayor and the District of Columbia Council for review and comment. However, neither has the power to change DC Water’s annual budgets. The District of Columbia includes DC Water’s budgets in their submission to Congress.

CAPITAL AUTHORITY REQUEST

Capital authority represents the amount of Congressionally-authorized funding that DC Water can use to administer its capital program. Sufficient authority is required to be in place prior to contracts being executed. Actual expenditures within the eight service areas may vary up or down for a particular year. However, they are “not to exceed the total” FY 2017 capital authority request in the amount of \$3.11 billion. While excess capital authority may exist in a service area for a particular year, it is not available unless a Board and General Manager approved budget exists, or a budget transfer has been authorized, and then only after assessing whether currently available budget in other projects (within that service area) can fund the shortfall.

To ensure that adequate authority is in place to allow for project acceleration, the request for new and currently active capital projects are based on incremental commitments anticipated to occur within the planning period. This allows us adequate flexibility to continue with contract commitments in the event that the U.S. Congress delays budget approval, and allows us to quickly accelerate or reprioritize projects into earlier years as approved by the Board. It should be noted that such changes and execution of any contract still require the General Manager’s approval, with major projects and contracts requiring Board approval.

CAPITALIZATION POLICY

DC Water’s capitalization policy determines how expenditures will be recognized and accounted. Since we also match the financing to the projected useful life of the item, it also determines how projects will be financed. The following guidelines are used to categorize items as capital, capital equipment or operating (innovations and maintenance):

- Capital Project – has a long life (average of 30 years), a minimum cost of \$500,000, and is financed with 30 year bonds.
- Capital Equipment – has a life of at least 3 years, a cost exceeding \$5,000 and is financed with short-term debt or cash.
- Innovations – has uncertain future benefit to organization and is expensed as incurred.
- Maintenance – are routine, cost under \$5,000, and do not extend the life of the item more than 3 years.

Capital Improvement Program

FY 2016 – FY 2025 (10-Year) Disbursement Plan – projected annual cash disbursements; Lifetime Budget – total lifetime budget for projects active during 10-year period, \$ in thousands

	FY 2016 - FY 2025 Disbursement Plan										10-Yr Total	Lifetime Budget
	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025		
NON PROCESS FACILITIES												
Facility Land Use	\$9,309	\$28,613	\$13,048	\$6,979	\$1,588	\$1,684	\$7,002	\$2,475	\$668	\$2	\$71,368	\$139,297
Subtotal	9,309	28,613	13,048	6,979	1,588	1,684	7,002	2,475	668	2	71,368	139,297
WASTEWATER TREATMENT												
Liquid Processing	16,193	23,871	33,857	38,248	20,311	18,334	21,093	9,546	4,208	9,838	195,499	808,430
Plantwide	15,798	16,207	17,013	22,534	36,598	26,048	28,560	34,936	24,521	16,636	238,853	496,407
Solids Processing	28,652	5,130	8,247	12,912	10,154	16,684	3,448	1,019	780	507	87,531	722,944
Enhanced Nitrogen Removal Facilities	107,994	72,606	53,445	5,834	3,917	947	600	1,252	5,520	23,161	275,277	1,039,198
Subtotal	168,637	117,814	112,562	79,528	70,980	62,014	53,700	46,753	35,028	50,142	797,159	3,066,979
COMBINED SEWER OVERFLOW												
DC Clean Rivers	212,012	141,323	130,177	124,526	158,111	135,594	82,990	82,447	77,753	62,581	1,207,515	2,771,514
Program Management	1,832	2,844	3,033	2,333	2,593	2,404	3,890	4,359	3,060	1,846	28,195	64,563
Combined Sewer	9,261	6,958	14,950	19,086	8,567	8,996	8,549	2,860	3,224	12,220	94,671	338,918
Subtotal	223,105	151,125	148,159	145,945	169,272	146,994	95,429	89,666	84,037	76,648	1,330,380	3,174,995
STORMWATER												
Local Drainage	223	66	822	290	8	63	608	265	844	1,024	4,214	16,636
On-Going	459	438	390	455	487	535	693	698	744	463	5,361	12,415
Pumping Facilities	0	126	774	964	78	1,280	4,787	23	0	0	8,031	25,000
DDOT	18	10	26	0	0	0	0	0	0	0	54	3,237
Research and Program Management	256	179	194	158	172	145	230	269	210	163	1,977	12,013
Trunk/Force Sewers	307	611	696	144	0	0	0	0	0	0	1,758	15,597
Subtotal	1,263	1,430	2,902	2,011	745	2,022	6,318	1,256	1,797	1,650	21,396	84,898
SANITARY SEWER												
Collection Sewers	4,190	6,318	7,629	7,108	8,140	17,982	17,299	17,894	21,345	22,394	130,300	338,534
On-Going	7,463	9,299	8,734	7,223	6,334	7,421	7,749	8,139	8,440	8,637	79,440	209,243
Pumping Facilities	2,267	1,743	1,800	795	165	1,378	151	229	0	0	8,528	34,759
Program Management	6,742	12,269	10,382	6,036	5,827	4,840	6,521	7,442	6,756	5,278	72,092	133,321
Interceptor/Trunk Force Sewers	14,124	31,514	25,556	32,053	42,099	19,921	10,723	11,736	13,958	15,893	217,577	713,359
Subtotal	34,786	61,144	54,102	53,215	62,566	51,543	42,443	45,439	50,498	52,201	507,937	1,429,216
WATER												
Distribution Systems	35,667	32,929	25,610	38,203	38,356	36,401	42,808	51,372	57,333	63,136	421,815	1,087,947
Lead Program	1,575	1,171	870	1,547	2,114	2,507	2,885	3,190	3,129	3,633	22,622	208,640
On-Going	5,105	7,116	5,306	6,310	5,931	5,716	5,799	5,879	6,171	6,338	59,672	135,714
Pumping Facilities	3,833	5,083	4,211	2,454	2,105	747	735	1,824	8,468	1,510	30,970	178,399
DDOT	893	627	389	0	0	0	0	0	0	0	1,909	33,933
Storage Facilities	9,515	9,115	3,427	7,420	3,779	7,582	2,459	2,188	1,343	557	47,387	101,834
Program Management	5,288	6,495	5,096	5,042	3,916	6,218	6,471	4,221	4,259	4,616	51,621	101,203
Subtotal	61,878	62,537	44,909	60,975	56,201	59,170	61,158	68,675	80,703	79,790	635,995	1,847,670
CAPITAL PROJECTS	498,977	422,663	375,682	348,654	361,353	323,426	266,052	254,263	252,731	260,434	3,364,235	9,743,055
CAPITAL EQUIPMENT	39,226	38,737	27,127	26,289	10,401	10,035	9,413	9,119	8,896	8,915	188,156	205,861
WASHINGTON AQUEDUCT	10,838	10,838	10,838	10,888	11,018	11,199	11,184	11,054	10,816	9,537	108,209	108,209
ADDITIONAL CAPITAL PROGRAMS	50,063	49,575	37,964	37,177	21,419	21,234	20,597	20,173	19,712	18,452	296,365	314,070
LABOR												352,774
TOTAL CAPITAL BUDGETS	\$549,040	\$472,238	\$413,646	\$385,831	\$382,772	\$344,660	\$286,649	\$274,436	\$272,442	\$278,886	\$3,660,600	\$10,409,899



New Headquarters Building



New Fleet Services Facility

FY 2016 - FY 2025 Disbursement Plan											Lifetime Budget
FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	
\$9,309	\$28,613	\$13,048	\$6,979	\$1,588	\$1,684	\$7,002	\$2,475	\$668	\$2	\$71,368	\$139,297

(\$ in thousands)

OVERVIEW

A new service area within the CIP, will accommodate non process projects necessary to support DC Water activities.

PROGRAM AREA

Facility Land Use – Projects were reallocated from existing program areas under Wastewater Treatment, Combined Sewer Overflow, Sewer, and Water service areas. These are projects which generally improve DC Water’s operations but do not per-se represent a core process area within DC Water’s scope of activities. Included in this program area are:

- **New DC Water Headquarters Building** – The DC Water Administrative Headquarters Building, located next to the historic Main Pumping Station, will be DC Water’s most sustainable construction project ever. The Headquarters will anchor DC Water’s new publicly-accessible campus along the Anacostia River. Currently, DC Water’s administrative offices are spread across the District of Columbia in multiple facilities, including leased space. By relocating nonessential personnel off of the Blue Plains industrial campus, DC Water will preserve what little remaining space exists – an irreplaceable commodity – for future process improvements if required by permit or desired for innovation.

PROGRAM AREA, CONT.

- **New Fleet Services Facility** – Relocate all operations from the O Street and Main Pump station site in order to accommodate the redevelopment plans for the District of Columbia in and around the new baseball stadium. To this end, DC Water has acquired a three (3) acre site in adjacent Prince Georges County Maryland. The project will construct a new 30,000 square foot vehicle service building. All cost associated with the construction of this new facility along with any cost associated with site acquisition, will be reimbursed to DC Water by the District of Columbia.

ACCOMPLISHMENTS



Entrance to Visitor's Center

New Warehouse/Visitor's Center/Security Facility – During FY 2015 the New Warehouse was completed at Blue Plains, it currently is in operations and serves all DC Water in the logistics and distribution of equipment required by the various DC Water Departments. The facility employs Maximo and integrates Maximo data with Lawson DC Water's financial reporting system. In addition to warehousing the facility also includes the new DC Water Visitor's Center.

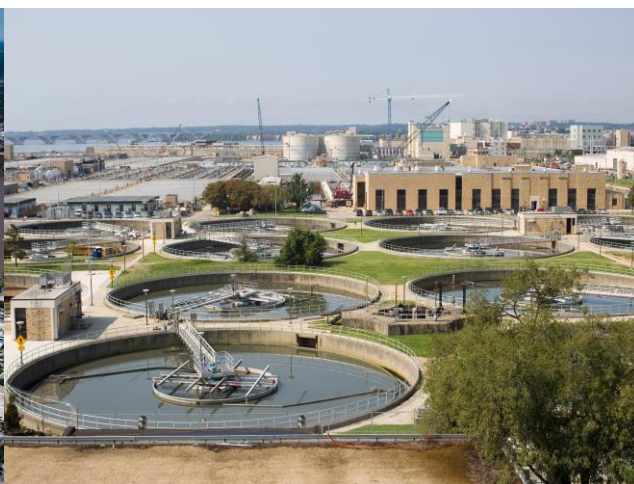
Non Process Facilities

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

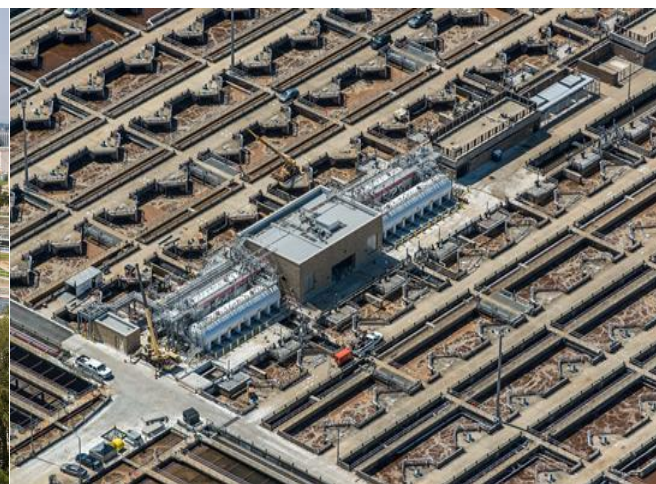
FACILITY LAND USE		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
HD	Anacostia Pump Station - Field Ops Facility East	FY 2011	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$502	FY 2015
DS	New Headquarters Building	FY 2009	Active	3,385	25,826	12,117	495	166	0	0	0	0	0	41,989	71,100	FY 2020
DU	Water System Laboratory Facilities	FY 2007	Active	43	80	0	0	0	0	0	0	0	0	124	647	FY 2017
HC	New Warehouse/Visitor/Security Facility	FY 2010	Active	358	0	0	0	0	0	0	0	0	0	358	18,374	FY 2016
HE	Bryant Street Pump Station Building Mods	FY 2017	Active	285	642	931	5,819	835	0	0	0	0	0	8,511	14,370	FY 2020
HF	Fort Reno Pump Station - Field Ops Facility West	FY 2020	Active	108	0	0	0	141	474	1,439	0	0	0	2,162	3,150	FY 2022
HH	New Fleet Management Facility	FY 2015	Active	5,129	2,064	0	0	0	0	0	0	0	0	7,193	16,500	FY 2017
HJ	COF Renovations	FY 2021	Active	0	0	0	0	0	905	3,844	1,495	668	2	6,914	8,872	FY 2025
HK	CMF Renovations and Consolidation	FY 2019	Active	0	0	0	665	447	305	1,720	980	0	0	4,117	5,782	FY 2023
TOTAL FACILITY LAND USE BUDGETS				\$9,309	\$28,613	\$13,048	\$6,979	\$1,588	\$1,684	\$7,002	\$2,475	\$668	\$2	\$71,368	\$139,297	
TOTAL NON PROCESS FACILITIES BUDGETS				\$9,309	\$28,613	\$13,048	\$6,979	\$1,588	\$1,684	\$7,002	\$2,475	\$668	\$2	\$71,368	\$139,297	



Blue Plains Advanced Wastewater Treatment Plant



Primary Sedimentation



Nitrification Reactors

FY 2016 - FY 2025 Disbursement Plan

FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime Budget
\$168,637	\$117,814	\$112,562	\$79,528	\$70,980	\$62,014	\$53,700	\$46,753	\$35,028	\$50,142	\$797,159	\$3,066,979

(\$ in thousands)

OVERVIEW

Capital projects in the Wastewater Treatment Service Area are required to rehabilitate, upgrade or provide new facilities at Blue Plains to ensure that it can reliably meet its National Pollutant Discharge Elimination System (NPDES) permit requirements and produce a consistent, high-quality dewatered solids product. DC Water’s current NPDES permit is effective from September 30, 2010 through September 30, 2015, and remains in effect while a new permit for the next five years is negotiated. This permit requires wastewater treatment to a level that meets one of the most stringent NPDES discharge permits in the United States. The Blue Plains Enhanced Nitrogen Removal Facilities Program, which provides for projects necessary to meet the stringent total nitrogen discharge limit in the NPDES permit, comprise a significant portion of the projects within the Wastewater Treatment Service Area.

PROGRAM AREAS

Liquid Processing – Projects in this program area encompass upgrading and rehabilitating facilities involved in handling flows from the sanitary and combined sewer systems. These flows progress sequentially through the Plant processes to ultimate discharge of the treated effluent into the Potomac River.

Plantwide – This program provides for upgrading, rehabilitating, or installing support systems and facilities that are required for both the liquid processing and solids processing programs.

Solids Processing – Biosolids processing involves reductions in volume along with treatment to meet applicable federal, state and local requirements for the ultimate disposal method. Treatment is provided by a system of processing facilities that include gravity thickening of primary sludge, floatation thickening of the biological waste sludge produced by the secondary and nitrification/denitrification processes, dewatering by centrifuge and lime stabilization.

Enhanced Nitrogen Removal Facilities – Provides for new facilities and upgrades to existing facilities needed at Blue Plains to meet the total nitrogen discharge limit that has been permitted DC Water. The necessary facilities have been completed and are in service. DC Water is fully compliant in meeting the reduced total nitrogen discharge limit that became effective January 1, 2015.

ACCOMPLISHMENTS



Enhanced Nitrogen Removal

Enhanced Nitrogen Removal Facility – The project provided limit of technology treatment for nitrogen removal was substantially complete in October 2014. The total annual nitrogen discharge for 2015 from Blue Plains is anticipated to be less than the stringent permit limit. Monthly concentrations have been consistently low since the new facilities went on-line.

ACCOMPLISHMENTS, CONT.

New Digestion Facilities – This project provides new processes and facilities that result in a significant reduction in the volume of biosolids produced at Blue Plains and an improvement in quality to Class A Biosolids product. The thermal hydrolysis, anaerobic digestion and belt filter presses are in full operation, as is a combined heat and power facility to provide steam necessary for the thermal hydrolysis process, and produce electrical power for use at Blue Plains.



Cambi – Main Process Train



Anaerobic Digesters



Turbine Enclosure



Belt Filter Presses

Thermal Hydrolysis is a process that treats and prepares the sewage solids as a sterile food source (carbon) for the microbes in the digesters, whose job it is to convert the carbon to methane. A high-heat, high-pressure process followed by a sudden pressure drop causes the cell walls of the organic matter to burst, making the food very available for the microbes in the digesters.

Four digesters onsite (3.8 million gallons each) contain dense populations of archaea and bacteria that convert the food source into gas. As a result of the hydrolysis process, the digesters can convert more of the solids into gas, making the process highly efficient. Gas collected in the digesters is cleaned and sent to the combustion turbines.

Three five-Megawatt (MW) turbines onsite convert digester gas into power, producing enough power to run one third of Blue Plains, the largest advanced wastewater treatment plant in the world. In addition, heat is recovered and converted to steam, which is used to heat the thermal hydrolysis process, so that there is no external energy needed for the project.

The solids exiting the digesters meet and exceed all EPA standards for soil production and use in both rural and urban settings. In the past, DC Water exported biosolids to farmers in Virginia and Maryland. With this new technology, DC Water now has a product for use within its customer service area for landscaping, restoration, gardening, and tree planting.

Wastewater Treatment

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

LIQUID PROCESSING		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
TK	Biological Nutrient Removal	FY 1996	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$95,050	FY 2015
A2	Liquid Processing Program Management	FY 2001	Active	1,294	3,370	3,255	1,441	1,929	2,260	1,891	734	655	0	16,829	31,579	FY 2024
BG	Dual Purpose Rehabilitation	FY 2009	Active	5,117	776	521	4	0	0	0	0	0	0	6,418	27,658	FY 2019
BP	Grit Chamber Facilities Ph II	FY 2015	Active	126	205	291	338	2,267	1,216	8	1	0	0	4,452	5,434	FY 2023
BQ	Primary Treatment Facilities Ph II	FY 2015	Active	402	592	761	918	6,305	3,439	16	1	0	0	12,433	14,625	FY 2023
BR	Nitrification/Denitrification Fac	FY 2006	Active	1,369	2,218	3,321	1,257	328	859	672	242	0	0	10,267	53,693	FY 2023
BT	Filtration/Disinfection Fac Ph II	FY 2008	Active	269	399	251	36	17	0	0	0	0	0	972	21,967	FY 2020
BV	RWWPS No. 2 Upgrades	FY 2012	Active	1,315	11,557	13,720	4,173	96	0	0	0	0	0	30,861	42,687	FY 2020
DA	DWT Research / Pilot Projects	FY 2006	Active	41	0	0	0	0	0	0	0	0	0	41	4,114	FY 2016
IX	Headworks Hvac Rehab	FY 2013	Active	3	771	1,398	6,728	3,181	91	0	0	0	0	12,171	15,892	FY 2021
IY	Effluent Filter Upgrade	FY 2016	Active	251	1,925	2,292	993	734	4,633	9,918	5,685	2,500	3,679	32,610	142,714	FY 2031
IZ	Replace/Upgrade Influent Screens	FY 2015	Active	164	429	226	0	0	0	0	0	274	5,885	6,977	49,433	FY 2033
J2	Replace/Upgrade Primary Treatment Mech.	FY 2016	Active	0	68	172	236	824	2,307	3,343	1,714	773	0	9,436	10,750	FY 2024
J6	Deammonification Project	FY 2013	Active	37	0	0	564	346	86	74	16	0	0	1,123	1,493	FY 2023
LC	Effluent Disinfection Upgrades	FY 2018	Active	0	0	0	289	358	0	0	0	5	274	927	8,011	FY 2029
OZ	Grit Chambers 1 & 2 Upgrades	FY 2016	Active	4,069	504	1,846	2,189	0	0	0	0	0	0	8,608	11,000	FY 2019
PD	Secondary East & West Upgrades	FY 2015	Active	447	0	0	0	1	2,027	3,508	1,153	0	0	7,136	8,200	FY 2023
PE	Nitrification Reactor/Sediment Upgrades	FY 2017	Active	0	57	244	1,030	678	1,401	1,665	0	0	0	5,074	6,750	FY 2022
TF	Grit Chamber Bldg 1&2	FY 1996	Active	156	0	0	0	0	0	0	0	0	0	156	71,046	FY 2016
TO	Secondary Treatment Fac	FY 1998	Active	0	0	0	0	0	0	0	0	0	0	0	70,603	FY 2016
UC	Filtration/Disinfection Fac	FY 2000	Active	1,135	814	5,373	18,050	3,246	17	0	0	0	0	28,635	99,485	FY 2021
UD	Raw Water Pump Stations 1&2	FY 1999	Active	1	186	186	0	0	0	0	0	0	0	374	16,245	FY 2018
TOTAL LIQUID PROCESSING BUDGETS				\$16,193	\$23,871	\$33,857	\$38,248	\$20,311	\$18,334	\$21,093	\$9,546	\$4,208	\$9,838	\$195,499	\$808,430	

PLANTWIDE		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AL	Plantwide Project Program Management	FY 2001	Active	\$1,746	\$1,991	\$557	\$1,363	\$6,811	\$4,087	\$2,196	\$710	\$0	\$0	\$19,461	\$35,802	FY 2023
AZ	COF Renovations	FY 2002	Active	157	510	486	0	0	0	0	0	0	0	1,153	17,690	FY 2018
BY	Additional Chemical Systems Ph III	FY 2022	Active	0	0	0	0	0	0	25	170	57	808	1,059	3,822	FY 2028
CH	Misc Facility Projects	FY 2004	Active	142	100	75	0	0	0	0	0	0	0	317	8,037	FY 2018
CV	Laboratory Upgrades	FY 2006	Active	52	29	0	0	0	0	0	0	0	0	81	8,510	FY 2017
CW	Security At Blue Plains	FY 2005	Active	654	369	1,676	1,692	650	98	0	0	0	0	5,139	8,717	FY 2021

Wastewater Treatment

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

PLANTWIDE, CONT.		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
DP	Chemical Building Enhancements	FY 2008	Active	\$0	\$108	\$105	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$214	\$1,891	FY 2018
DQ	Non-OEM PLC Interfaces/Replacements	FY 2009	Active	174	0	0	0	0	0	0	0	0	0	174	2,133	FY 2016
EI	Plantwide Painting of Steel Pipes	FY 2012	Active	0	0	0	0	1,264	1,327	1,391	16	0	0	3,997	4,960	FY 2023
EN	WWTP - Central Fire Alarm System	FY 2008	Active	34	0	0	0	0	0	0	0	0	0	34	3,092	FY 2016
GP	I & C & Elec - EPMC	FY 2009	Active	1,145	1,193	931	206	0	0	0	0	0	0	3,475	7,226	FY 2019
GW	Control Systems Replacement	FY 2021	Active	0	0	0	0	0	746	622	835	13,739	13,971	29,914	37,000	FY 2026
HL	DWT - Process and Operations Jobs	FY 2011	Active	958	657	442	224	230	1,065	0	0	0	0	3,575	7,106	FY 2021
HU	Blue Plains Logistics	FY 2011	Active	543	120	144	0	0	0	0	0	0	0	807	6,839	FY 2018
IC	Electrical Monitoring Systems	FY 2015	Active	181	0	140	963	2,631	1,199	0	0	0	0	5,114	7,250	FY 2021
IV	Blue Plains IT Backbone FOC Tubes	FY 2016	Active	584	59	0	374	1,556	0	0	0	0	0	2,573	3,775	FY 2020
JF	Construction of Flood Seawall	FY 2018	Active	0	0	67	0	213	876	3,281	5,436	895	12	10,781	13,234	FY 2026
JY	IT - Data Center	FY 2010	Active	50	352	333	0	0	0	0	0	0	0	734	3,422	FY 2018
LP	Wastewater Asset Mngmt Tech Support	FY 2013	Active	1,717	2,031	0	0	0	0	0	0	0	0	3,749	10,000	FY 2021
LS	Misc. Facilities Projects FY2013	FY 2013	Active	960	1,690	779	223	312	82	0	0	0	0	4,047	7,138	FY 2021
LX	Process Control System Upgrade	FY 2018	Active	0	0	264	0	0	1,512	1,526	2	0	0	3,305	4,000	FY 2023
OD	Plantwide Paving	FY 2015	Active	51	360	351	838	3,216	1,021	0	0	0	0	5,837	8,000	FY 2021
OE	Plantwide Drainage & Runoff	FY 2016	Active	16	1,130	1,215	688	884	306	0	0	0	0	4,240	6,146	FY 2021
OF	Process & Service Water Rehabilitation	FY 2020	Active	0	0	0	0	557	2,120	513	0	0	0	3,190	3,950	FY 2022
OG	City Water & Sewer Upgrades at WWTP	FY 2020	Active	0	0	0	0	1	523	524	0	0	0	1,048	1,250	FY 2022
OH	Plantwide Demolition	FY 2021	Active	0	0	0	0	0	2,364	4,587	1,970	588	0	9,509	11,100	FY 2024
OI	Plantwide Painting & Signage	FY 2020	Active	0	0	0	0	90	232	43	0	0	0	366	450	FY 2022
OK	Plantwide H2S Mitigation	FY 2018	Active	0	0	0	271	722	1,356	1,845	1,571	881	904	7,549	10,000	FY 2026
ON	Plantwide Grounding Upgrades	FY 2017	Active	0	0	559	1,942	1,429	219	0	0	0	0	4,151	5,500	FY 2021
OP	Plantwide Sump Pump Rehabilitation	FY 2016	Active	0	364	900	527	7	0	0	0	0	0	1,799	2,500	FY 2020
OQ	Plantwide Roofing Upgrades	FY 2020	Active	0	0	0	0	301	1,151	1,847	2,704	1,454	797	8,254	9,500	FY 2025
OY	Blue Plains Safety	FY 2015	Active	32	72	0	0	0	41	43	44	45	0	277	350	FY 2024
PF	Chemical System/Building Upgrades	FY 2015	Active	1,054	2,310	1,776	2,786	3,446	2,517	1,553	45	0	0	15,486	22,500	FY 2023
TA	Process Computer Control System	FY 1997	Active	690	0	0	0	0	0	0	0	0	0	690	65,281	FY 2017
TZ	Elec Power System - Switch Gear	FY 2001	Active	2,843	300	416	3,956	8,261	1,557	5,667	13,335	2,386	0	38,721	59,399	FY 2024
YD	Miscellaneous Projects	FY 1997	Active	1,817	468	1,012	2,178	1,494	1,050	560	333	0	0	8,912	52,067	FY 2023
B9	Large Motor Starting Migration	FY 2016	New	16	155	466	3,048	1,893	33	0	0	0	0	5,611	8,000	FY 2021
OM	Plantwide Hot Water System/ Loop Rehab	FY 2016	New	182	1,836	2,680	753	631	565	2,336	7,763	4,476	145	21,367	25,770	FY 2025

Wastewater Treatment

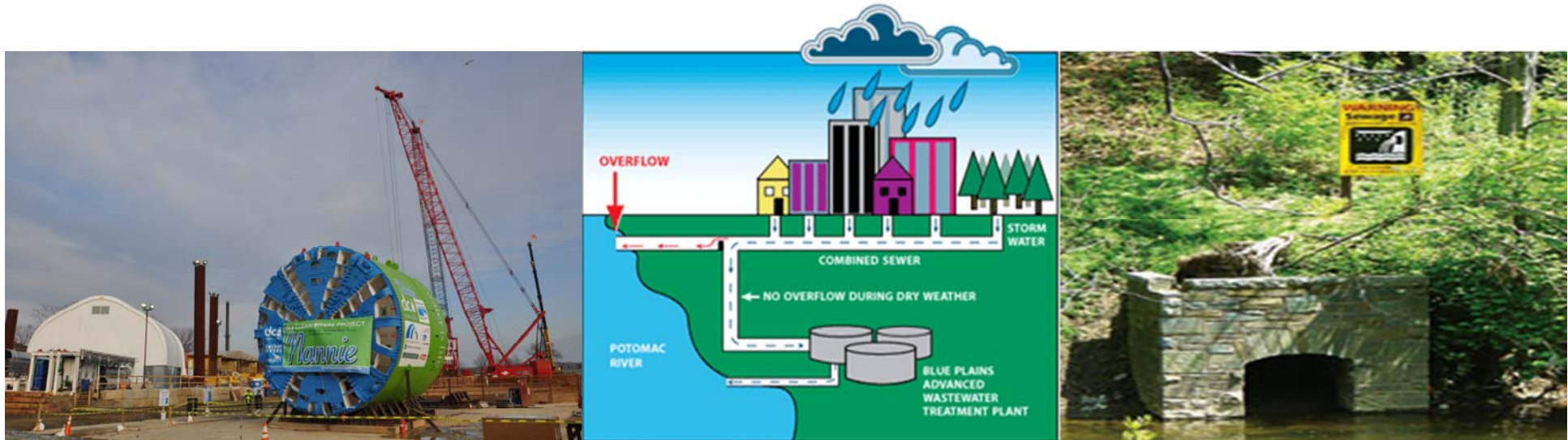
10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

PLANTWIDE, CONT.		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
OS	Plantwide Lighting Upgrades	FY 2017	New	0	1	1,639	502	0	0	0	0	0	0	2,142	3,000	FY 2019
TOTAL PLANTWIDE BUDGETS				\$15,798	\$16,207	\$17,013	\$22,534	\$36,598	\$26,048	\$28,560	\$34,936	\$24,521	\$16,636	\$238,853	\$496,407	

SOLIDS PROCESSING		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AM	Solids Processing Program Management	FY 2001	Active	\$1,122	\$1,621	\$1,041	\$216	\$1,054	\$1,631	\$1,089	\$505	\$778	\$507	\$9,564	\$16,063	FY 2025
BX	Gravity Thickener Upgrades Ph II	FY 2009	Active	1,004	1,140	4,855	8,662	5,255	2,774	0	0	0	0	23,689	34,488	FY 2021
EV	Area Substation No. 6	FY 2008	Active	135	0	344	412	0	0	0	0	0	0	892	22,074	FY 2019
I2	Biosolids Loadout Crane Rehabilitation	FY 2011	Active	55	0	0	0	0	0	0	0	0	0	55	4,296	FY 2016
I3	Biosolids Blending Development Center	FY 2015	Active	483	0	0	0	0	0	0	0	0	0	483	700	FY 2016
I6	Combined Heat & Power - Backup Power	FY 2019	Active	0	0	0	0	120	204	660	335	2	0	1,321	1,500	FY 2024
LD	Pre-Dewatering Additional Centrifuges	FY 2019	Active	0	0	0	118	1,153	5,756	177	0	0	0	7,204	9,170	FY 2022
LE	High Strength Waste Receiving Facility	FY 2019	Active	0	0	0	343	920	5,644	832	0	0	0	7,738	9,700	FY 2022
XA	New Digestion Facilities	FY 1999	Active	24,401	113	0	0	0	0	0	0	0	0	24,514	547,259	FY 2019
XB	Centrifuge Thickener Facility	FY 1999	Active	247	62	0	0	0	0	0	0	0	0	309	48,670	FY 2017
XZ	Solids Processing Building / DSLF	FY 1999	Active	1,010	2,192	2,007	3,161	1,653	675	690	179	0	0	11,568	26,790	FY 2023
YZ	Digestion Facilities Site Preparation	FY 1999	Active	193	0	0	0	0	0	0	0	0	0	193	2,234	FY 2016
TOTAL SOLIDS PROCESSING BUDGETS				\$28,652	\$5,130	\$8,247	\$12,912	\$10,154	\$16,684	\$3,448	\$1,019	\$780	\$507	\$87,531	\$722,944	

ENHANCED NITROGEN REMOVAL		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
H7	Blue Plains Tunnel Site Preparation	FY 2009	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,360	FY 2015
BI	Enhanced Nitrogen Removal North	FY 2006	Active	10,539	386	0	0	0	0	0	0	0	0	10,924	73,827	FY 2017
E8	Enhanced Clarification Facilities	FY 2009	Active	29,595	38,426	28,364	326	0	0	0	0	0	0	96,710	216,424	FY 2019
E9	Nitrogen Removal Facilities	FY 2008	Active	4,072	544	127	0	0	0	0	0	0	0	4,743	271,457	FY 2018
EE	Filtrate Treatment Facilities	FY 2009	Active	31,803	6,540	6,874	890	144	1	0	0	0	0	46,252	106,345	FY 2021
EG	Blue Plains Tunnel	FY 2008	Active	6,320	202	3	3	3	3	3	3	2	0	6,540	177,380	FY 2024
FG	Secondary Treatment Upgrades For TN	FY 2013	Active	373	436	369	0	0	0	597	1,249	5,518	23,161	31,703	57,142	FY 2028
FR	BP Tunnel Dewatering Pumping Sta	FY 2010	Active	6,165	6,836	4,417	181	0	0	0	0	0	0	17,598	33,487	FY 2019
FS	Bolling Overflow & Diversion	FY 2010	Active	14,276	11,830	4,612	0	0	0	0	0	0	0	30,718	53,405	FY 2018
LM	ENR Program Management	FY 2013	Active	4,853	7,407	8,679	4,436	3,771	943	0	0	0	0	30,089	43,371	FY 2021
TOTAL ENHANCED NITROGEN REMOVAL BUDGETS				\$107,994	\$72,606	\$53,445	\$5,834	\$3,917	\$947	\$600	\$1,252	\$5,520	\$23,161	\$275,277	\$1,039,198	

TOTAL WASTEWATER TREATMENT BUDGETS				\$168,637	\$117,814	\$112,562	\$79,528	\$70,980	\$62,014	\$53,700	\$46,753	\$35,028	\$50,142	\$797,159	\$3,066,979	
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Anacostia River Tunnel Boring Machine, Nannie

Combined Sewer Overflow Diagram

Combined Sewer Overflow Outfall

FY 2016 - FY 2025 Disbursement Plan

FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime Budget
\$223,105	\$151,125	\$148,159	\$145,945	\$169,272	\$146,994	\$95,429	\$89,666	\$84,037	\$76,648	\$1,330,380	\$3,174,995

(\$ in thousands)

OVERVIEW

Similar to many older communities in the Mid-Atlantic, Northeast, and Midwest portions of the country, a portion of the District of Columbia is served by a combined sewer system. Approximately one-third of the system is combined, mostly in the downtown and older parts of the city. In dry weather, the system delivers wastewater to the Blue Plains Wastewater Treatment Plant. In wet weather, rain water also enters the system, and if the conveyance capacity of the system is exceeded, the excess flow spills into the waterways of the District of Columbia. This discharge is called Combined Sewer Overflow (CSO). There are 53 permitted CSO outfalls in the District.

Along with a few smaller CSO projects, DC Water is currently engaged in implementing a Long Term Control Plan (LTCP), called the Clean Rivers Project, for CSO's that discharge to the Anacostia River, Rock Creek and the Potomac River. The schedule for completing the LTCP spans over a 20-year period that ends in 2025 and is included in a Federal Consent Decree between the United States, the District Government and DC Water. The benefits of our twenty-year plan are significant. When fully implemented, combined sewer overflows will be reduced by a projected 96 percent (98 percent on the Anacostia River) resulting in improved water quality

OVERVIEW, CONT.

and a significant reduction in debris on our national capital's waterways. In addition, DC Water's clean-up efforts on the Anacostia River are a key cornerstone of the District's plan to redevelop both sides of the river, including the new baseball stadium and proposed retail development and affordable housing among other projects.

PROGRAM AREAS

DC Clean Rivers – The plan includes a variety of improvements throughout the District: increase excess flow treatment capacity at Blue Plains; construct a main tunnel system to control Anacostia River overflows, branch tunnels to relieve surface flooding and a tunnel dewatering pumping station, with project completion in 2025; construct a tunnel system to control Potomac River overflows and a lift station, with facility planning to begin in 2015 and project completion in 2025; and construct a mile long tunnel system to control Piney Branch/Rock Creek overflows, with facility planning to begin in 2016 and project completion in 2025. Construction is well underway with completion of projects that were included in the settlement of a lawsuit against DC Water regarding implementation of the federal CSO Nine Minimum Controls program. These projects, which were previously budgeted and planned by DC Water prior to the lawsuit, have reduced combined sewer overflows by almost 36 percent.

Program Management – Combined Sewer Program Manager provides program management services for Clean Rivers activities both at Blue Plains and in all areas in the District. The program manager is responsible for evaluation of combined sewer systems, as well as design management for sewer pumping station rehabilitations and sewer infrastructure projects.

Combined Sewer – Projects within Combined Sewer Program Area are for rehabilitation and/or relocation of combined sewers, control of wet weather related pollution, and upgrades to pumping stations.

ACCOMPLISHMENTS

- Start activities on the First Street Tunnel, to alleviate flooding in the Bloomingdale neighborhood of the District of Columbia.
- Completion of the Blue Plains Tunnel
- Start tunneling activities on the Anacostia River Tunnel
- Implement Green Infrastructure activities in selected neighborhoods throughout the City

Combined Sewer Overflow

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

DC CLEAN RIVERS		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
LJ	DC Clean Rivers Green Infrastructures	FY 2013	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500	FY 2015
CY	Anacostia LTCP Projects	FY 2005	Active	202,980	124,120	102,248	112,745	158,111	121,650	40,117	30,233	3,122	3,518	898,844	1,910,975	FY 2026
CZ	Potomac LTCP Projects	FY 2010	Active	6,549	10,164	21,914	8,962	0	13,943	27,271	28,669	68,885	50,348	236,705	614,100	FY 2029
DZ	Rock Creek CSS LTCP Project	FY 2010	Active	2,483	7,039	6,015	2,819	0	0	15,602	23,545	5,746	8,716	71,965	238,939	FY 2030
TOTAL DC CLEAN RIVERS BUDGETS				\$212,012	\$141,323	\$130,177	\$124,526	\$158,111	\$135,594	\$82,990	\$82,447	\$77,753	\$62,581	\$1,207,515	\$2,771,514	

PROGRAM MANAGEMENT		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AV	CSO Program Management	FY 2001	Active	\$1,832	\$2,844	\$3,033	\$2,333	\$2,593	\$2,404	\$3,890	\$4,359	\$3,060	\$1,846	\$28,195	\$64,563	FY 2025
TOTAL PROGRAM MANAGEMENT BUDGETS				\$1,832	\$2,844	\$3,033	\$2,333	\$2,593	\$2,404	\$3,890	\$4,359	\$3,060	\$1,846	\$28,195	\$64,563	

COMBINED SEWER		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
BB	Potomac Pumping Station Rehab	FY 2002	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,834	FY 2015
IJ	Combined Sewer Rehabilitation 3	FY 2016	Closed	0	0	0	0	0	0	0	0	0	0	0	0	FY 2015
JT	Combined Sewer Rehabilitation 4	FY 2020	Closed	0	0	0	0	0	0	0	0	0	0	0	0	FY 2015
A7	Supplemental Environmental Projects	FY 2005	Active	0	0	0	0	0	0	0	0	0	0	0	1,900	FY 2016
BA	DC Water Low Impact Development	FY 2001	Active	268	47	16	0	0	0	0	0	0	0	331	3,000	FY 2018
BH	Rock Creek CSO Projects	FY 2003	Active	0	0	0	0	0	0	0	0	0	0	0	16,670	FY 2015
DD	O Street Development Effort	FY 2006	Active	13	0	0	0	0	0	0	0	0	0	13	791	FY 2016
EJ	Potomac Pumping Station-Ph III Rehab	FY 2008	Active	3,159	3,522	1,542	4	0	0	0	0	0	0	8,228	22,784	FY 2019
EK	Long Term Rehab-Main & O Pump Sta	FY 2020	Active	0	0	0	0	0	1,297	2,368	2,425	3,089	11,837	21,016	55,644	FY 2027
EL	Swirl Facility Rehabilitation	FY 2008	Active	93	252	51	0	0	0	0	0	0	0	396	4,570	FY 2018
EQ	Potomac Pumping Station-Ph IV Rehab	FY 2019	Active	0	0	0	39	78	1,299	0	0	0	0	1,416	2,325	FY 2021
FQ	Main & O St. PS Intermediate Upgrade	FY 2009	Active	1,623	1,627	9,875	10,995	3,331	0	0	0	0	0	27,452	45,885	FY 2020
FX	Rehab Northeast Boundary Sewer-Ph I	FY 2015	Active	1,166	158	0	320	528	3,185	5,092	435	0	0	10,882	18,500	FY 2023
FZ	Tiber Creek Sewer Lining -Ph I	FY 2012	Active	0	658	813	4,097	3,935	26	0	0	0	0	9,528	17,113	FY 2021
G7	Combined Sewers Under Buildings	FY 2009	Active	1,317	301	1,298	2,797	0	0	0	0	0	0	5,713	15,981	FY 2019
IH	Combined Sewer Rehabilitation 2	FY 2013	Active	1,488	124	1,068	490	0	0	0	0	0	0	3,170	18,100	FY 2019
IP	Tiber Creek Trunk Sewer Rehabilitation	FY 2015	Active	0	0	0	343	695	3,190	1,089	0	0	0	5,318	8,250	FY 2022
KI	Main & O St. Pump Stations	FY 1999	Active	12	0	0	0	0	0	0	0	0	0	12	79,901	FY 2016
NZ	Floatable Debris Dock Replacement	FY 2015	Active	121	270	287	0	0	0	0	0	0	0	678	995	FY 2018
OB	Inflatable Dams Replacement FY24	FY 2024	Active	0	0	0	0	0	0	0	0	135	383	518	6,675	FY 2027
TOTAL COMBINED SEWER BUDGETS				\$9,261	\$6,958	\$14,950	\$19,086	\$8,567	\$8,996	\$8,549	\$2,860	\$3,224	\$12,220	\$94,671	\$338,918	

TOTAL COMBINED SEWER OVERFLOW BUDGETS	\$223,105	\$151,125	\$148,159	\$145,945	\$169,272	\$146,994	\$95,429	\$89,666	\$84,037	\$76,648	\$1,330,380	\$3,174,995
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City Street Catch Basin



Stormwater Overflow



Potomac River

FY 2016 - FY 2025 Disbursement Plan										Lifetime Budget	
FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	
\$1,263	\$1,430	\$2,902	\$2,011	\$745	\$2,022	\$6,318	\$1,256	\$1,797	\$1,650	\$21,396	\$84,898

(\$ in thousands)

OVERVIEW

Stormwater is the water generated by rain or melted snow on “impervious surfaces” or surfaces that do not allow the water to soak into the ground (such as roads, driveways, sidewalks, parking lots, and buildings). Stormwater runoff occurs when rain or snowmelt flows over these impervious surfaces.

Stormwater can pick up trash, excess nutrients (such as nitrogen and phosphorus), sediment and other pollutants that flow into a storm sewer system or directly to a lake, stream, river, or wetland. Untreated stormwater runoff ends up in the waterbodies we use for swimming, fishing and providing drinking water. Polluted stormwater runoff can have many adverse effects on plants, fish, animals and people. For example, trash can clog waterbodies, nutrients can cause algae blooms, and sediment impacts aquatic life.

The District’s Municipal Separate Storm Sewer System (MS4), has approximately 600 miles of storm sewer pipes, catch basins, inlets, special structures and related facilities. Some components of the existing storm sewer system are over 100 years old. DC Water is responsible for the maintenance and replacement of the

OVERVIEW, CONT.

publicly owned collection and conveyance facilities that transport stormwater runoff to the Anacostia and Potomac Rivers, Rock Creek, and other receiving streams within the District of Columbia.

PROGRAM AREAS

Local Drainage – Includes projects for the investigation, design and repair of the existing over eight foot diameter Northwest Boundary Interceptor Sewer which has shown signs of structural defects during prior inspections.

On-Going – This was created as an annual program for planned projects by the Department of Sewer Services infrastructure improvements. Job numbers are issued to identify the location of the projects.

Pumping Facilities – Rehabilitation of twelve of the sixteen stormwater pumping stations that were not upgraded in the last five years. These stations are aging and require new mechanical and electrical equipment to maintain operations.

DDOT – The annual program of stormwater infrastructure projects are coordinated with street rehabilitation or other construction work performed by the District of Columbia Department of Public Works. This is needed to minimize public inconvenience, caused by construction work and save paving costs.

Research and Program Management – Provides engineering program management services for the stormwater service area capital projects and design management services for the rehabilitation or replacement of fifteen stormwater pumping stations. It also provides engineering services for condition assessment of the storm sewer system and development of conceptual design for the storm sewer system capital projects.

Trunk/Force Sewers – Provides for the design and construction services for stormwater sewer interceptors, trunk sewers and force mains that require upgrades. Sewers rehabilitated by this project are defined by the major planning and condition assessment program underway for the stormwater sewer system. As the assessment of the storm sewer system progresses and specific rehabilitation needs are identified, jobs will be created under this project to remediate system problems.

ACCOMPLISHMENTS

Five different projects for the rehabilitation and improvement of the storm sewer system, were completed and closed in the past fiscal year.

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

LOCAL DRAINAGE		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
A6	Lining 22nd & P Sts. NW/NWBSO Repair	FY 2000	Active	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,040	FY 2015
GY	Storm Sewer Rehab Various Location	FY 2013	Active	223	66	822	290	0	0	0	0	0	0	1,401	6,580	FY 2019
IE	Storm Sewer Rehabilitation 3	FY 2019	Active	0	0	0	0	8	63	608	265	844	1,024	2,813	7,017	FY 2026
TOTAL LOCAL DRAINAGE BUDGETS				\$223	\$66	\$822	\$290	\$8	\$63	\$608	\$265	\$844	\$1,024	\$4,214	\$16,636	

ON-GOING		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AO	FY2009 - DSS Stormwater Projects	FY 2009	Active	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$497	FY 2016
BD	FY2011 - DSS Stormwater Projects	FY 2011	Active	27	16	0	0	0	0	0	0	0	0	42	618	FY 2017
C6	FY2006 - DSS Stormwater Projects	FY 2005	Active	1	0	0	0	0	0	0	0	0	0	1	497	FY 2016
CD	FY2012 - DSS Stormwater Projects	FY 2011	Active	34	14	0	0	0	0	0	0	0	0	48	637	FY 2017
CN	FY2013 - DSS Stormwater Projects	FY 2013	Active	49	0	0	0	0	0	0	0	0	0	49	660	FY 2016
D7	FY2014 - DSS Stormwater Projects	FY 2013	Active	110	0	0	0	0	0	0	0	0	0	110	680	FY 2016
DJ	FY2015 - DSS Stormwater Projects	FY 2015	Active	45	20	0	0	0	0	0	0	0	0	65	701	FY 2017
DX	FY2016 - DSS Stormwater Projects	FY 2016	Active	194	165	0	0	0	0	0	0	0	0	358	720	FY 2017
FN	FY2017 - DSS Stormwater Projects	FY 2017	Active	0	223	167	0	0	0	0	0	0	0	390	745	FY 2018
H5	FY2018 - DSS Stormwater Projects	FY 2017	Active	0	0	223	191	0	0	0	0	0	0	414	770	FY 2019
HM	FY2019 - DSS Stormwater Projects	FY 2019	Active	0	0	0	265	186	0	0	0	0	0	451	794	FY 2020
JH	FY2020 - DSS Stormwater Projects	FY 2020	Active	0	0	0	0	301	205	0	0	0	0	506	820	FY 2021
LO	FY2021 - DSS Stormwater Projects	FY 2021	Active	0	0	0	0	0	330	227	0	0	0	557	845	FY 2022
M8	FY2022 - DSS Stormwater Projects	FY 2022	Active	0	0	0	0	0	0	465	194	0	0	660	820	FY 2023
MG	FY2023 - DSS Stormwater Projects	FY 2023	Active	0	0	0	0	0	0	0	503	206	0	710	845	FY 2024
NV	FY2024 - DSS Stormwater Projects	FY 2024	Active	0	0	0	0	0	0	0	0	537	215	753	870	FY 2025
PI	FY2025 - DSS Stormwater Projects	FY 2025	New	0	0	0	0	0	0	0	0	0	247	247	896	FY 2026
TOTAL ON-GOING BUDGETS				\$459	\$438	\$390	\$455	\$487	\$535	\$693	\$698	\$744	\$463	\$5,361	\$12,415	

PUMPING FACILITIES		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
NG	Stormwater Pump Stations Rehabilitation	FY 2016	Active	\$0	\$126	\$774	\$964	\$78	\$1,280	\$4,787	\$23	\$0	\$0	\$8,031	\$25,000	FY 2028
TOTAL PUMPING FACILITIES BUDGETS				\$0	\$126	\$774	\$964	\$78	\$1,280	\$4,787	\$23	\$0	\$0	\$8,031	\$25,000	

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousand

DDOT		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AR	FY2009 - DDOT Stormwater Projects	FY 2015	Active	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160	FY 2015
B3	FY2010 - DDOT Stormwater Projects	FY 2015	Active	0	0	0	0	0	0	0	0	0	0	0	165	FY 2015
BM	FY2011 - DDOT Stormwater Projects	FY 2015	Active	0	0	0	0	0	0	0	0	0	0	170	FY 2015	
CB	FY2012 - DDOT Stormwater Projects	FY 2015	Active	8	0	0	0	0	0	0	0	0	0	8	175	FY 2016
CL	FY2013 - DDOT Stormwater Projects	FY 2016	Active	1	9	0	0	0	0	0	0	0	0	10	180	FY 2017
D8	FY2014 - DDOT Stormwater Projects	FY 2017	Active	0	1	12	0	0	0	0	0	0	0	13	185	FY 2018
DK	FY2015 - DDOT Stormwater Projects	FY 2015	Active	0	0	0	0	0	0	0	0	0	0	191	FY 2015	
DT	FY2016 - DDOT Stormwater Projects	FY 2016	Active	8	0	0	0	0	0	0	0	0	0	8	196	FY 2016
FM	FY2017 - DDOT Stormwater Projects	FY 2015	Active	0	0	0	0	0	0	0	0	0	0	205	FY 2015	
H4	FY2018 - DDOT Stormwater Projects	FY 2018	Active	0	0	14	0	0	0	0	0	0	0	14	215	FY 2018
HP	FY2019 - DDOT Stormwater Projects	FY 2015	Active	0	0	0	0	0	0	0	0	0	0	220	FY 2015	
P5	FY2004 - DDOT Stormwater Projects	FY 2004	Active	1	0	0	0	0	0	0	0	0	0	1	20	FY 2016
P8	FY2007 - DDOT Stormwater Projects	FY 2015	Active	0	0	0	0	0	0	0	0	0	0	155	FY 2016	
P9	FY2008 - DDOT Stormwater Projects	FY 2015	Active	0	0	0	0	0	0	0	0	0	0	1,000	FY 2016	
TOTAL DDOT BUDGETS				\$18	\$10	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54	\$3,237	

RESEARCH & PROGRAM MANAGEMENT		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AT	Stormwater Program Management	FY 2001	Active	\$256	\$179	\$194	\$158	\$172	\$145	\$230	\$269	\$210	\$163	\$1,977	\$12,013	FY 2025
TOTAL RESEARCH & PROGRAM MANAGEMENT BUDGETS				\$256	\$179	\$194	\$158	\$172	\$145	\$230	\$269	\$210	\$163	\$1,977	\$12,013	

TRUNK/FORCE SEWERS		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
BO	Future Stormwater Projects	FY 2004	Active	\$307	\$611	\$696	\$144	\$0	\$0	\$0	\$0	\$0	\$0	\$1,758	\$15,597	FY 2019
TOTAL TRUNK/FORCE SEWERS BUDGETS				\$307	\$611	\$696	\$144	\$0	\$0	\$0	\$0	\$0	\$0	\$1,758	\$15,597	

TOTAL STORMWATER BUDGETS				\$1,263	\$1,430	\$2,902	\$2,011	\$745	\$2,022	\$6,318	\$1,256	\$1,797	\$1,650	\$21,396	\$84,898	
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Work on Sewer Laterals



Sewer Inspection Rover



Main Pumping Station

FY 2016 - FY 2025 Disbursement Plan

FY 2016 - FY 2025 Disbursement Plan										Lifetime Budget	
FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	
\$34,786	\$61,144	\$54,102	\$53,215	\$62,566	\$51,543	\$42,443	\$45,439	\$50,498	\$52,201	\$507,937	\$1,429,216

(\$ in thousands)

OVERVIEW

DC Water is responsible for wastewater collection and transmission in the District of Columbia, including operation and maintenance of the sanitary sewer system. The sanitary sewer system includes approximately 600 miles of large interceptor sewers and smaller gravity collection sewers. DC Water is also responsible for sewer lateral connections from the sewer mains to the property lines of residential, government, and commercial properties. In addition, DC Water is responsible for the 50-mile long Potomac Interceptor System, which provides conveyance of wastewater from Dulles International Airport, areas in Virginia and Maryland, to the Blue Plains Advance Wastewater Treatment Plant.

PROGRAM AREAS

Collection Sewers – Includes studies and projects to effectively eliminate stormwater, groundwater, and other infiltration and inflow to the sewer system, to separate stormwater flows, and to reduce other extraneous flows to Blue Plains. This category also includes projects to rehabilitate sanitary sewer pipes.

PROGRAM AREAS, CONT.

On-Going – Capital projects managed by the Department of Sewer Services including the replacement of sewer laterals, sewer mains, inspection and cleaning of sewer laterals and mains.

Pumping Facilities – Projects required for the upgrade of existing wastewater pumping stations, as well as projects for the engineering and construction of new wastewater pumping facilities to enhance the reliability and integrity of DC Water’s sanitary sewer system.

Program Management – Engineering program management services for the sewer system capital improvement program, including assessing system needs, developing facilities plans, design scopes of work, cost estimates, task orders or agreements, and design document review.

Interceptor/Trunk Force Sewers – The replacement or rehabilitation of large diameter sewers that have reached their useful life or are in need of major repair.

ACCOMPLISHMENTS

- Over 75 miles of sewer inspection and 39 miles of condition assessment were successfully completed in FY 2015.
- One hundred sixty one (161) sewer flow meters were installed and are gathering important data on the operation of the system. This data will be used to develop an overarching coordination plan to link all monitoring efforts throughout the DC Water collection system, calibrate the system-wide sewer model, provide inflow/infiltration characterization, and assess rehabilitation effectiveness.
- The portion of the Potomac Interceptor near Waxpool Road was successfully rehabilitated in February 2015. This job was completed two months ahead of schedule and ahead of the critical end date for use of Loudoun Water’s Broad Run Interceptor Parallel to the Potomac Interceptor.
- The first “Concept to Construction” project was successfully awarded in January 2015. This project approach saved 10 months of time and budget in the planning and design phases.

Sanitary Sewer

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

COLLECTION SEWERS		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
G1	Small Local Sewer Rehab 1	FY 2010	Active	\$1,495	\$2,689	\$909	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$5,095	\$28,114	FY 2019
G8	Small Local Sewer Rehab 2	FY 2010	Active	564	0	0	0	0	0	0	0	0	0	564	2,842	FY 2017
G9	Small Local Sewer Rehab 3	FY 2014	Active	65	1,493	288	0	0	0	0	0	0	0	1,846	5,650	FY 2018
GA	Small Local Sewer Rehab 4	FY 2014	Active	1,738	40	0	0	0	0	0	0	0	0	1,778	8,557	FY 2017
J3	Sewer Upgrade - City Wide	FY 2000	Active	201	1,492	1,339	850	326	0	0	0	0	0	4,208	16,292	FY 2020
JR	Sanitary Sewer Rehabilitation 14	FY 2019	Active	0	0	0	301	680	6,789	20	0	0	0	7,789	15,630	FY 2022
JS	Sanitary Sewer Rehabilitation 15	FY 2019	Active	0	0	0	358	1,065	4,824	1,617	0	0	0	7,864	15,630	FY 2022
JU	Sanitary Sewer Rehabilitation 13	FY 2018	Active	0	0	54	437	1,774	4,355	840	0	0	0	7,459	15,175	FY 2021
LK	Sanitary Sewer Rehabilitation 17	FY 2020	Active	0	0	0	0	59	466	5,039	2,875	0	0	8,439	16,100	FY 2023
LL	Sanitary Sewer Rehabilitation 18	FY 2021	Active	0	0	0	0	0	512	1,038	7,424	162	0	9,136	16,582	FY 2024
MO	Sanitary Sewer Rehabilitation 20	FY 2022	Active	0	0	0	0	0	0	455	1,157	8,626	163	10,402	17,100	FY 2025
MP	Sanitary Sewer Rehabilitation 22	FY 2023	Active	0	0	0	0	0	0	0	500	1,414	9,166	11,080	17,600	FY 2026
MZ	Sanitary Sewer Rehabilitation 24	FY 2024	Active	0	0	0	0	0	0	0	0	484	1,316	1,800	18,120	FY 2027
NI	Sanitary Sewer Rehabilitation 21	FY 2022	Active	0	0	0	0	0	0	103	683	5,762	4,051	10,598	17,100	FY 2025
NC	Sanitary Sewer Rehabilitation 23	FY 2023	Active	0	0	0	0	0	0	0	111	715	6,125	6,952	17,600	FY 2026
NF	Sanitary Sewer Rehabilitation 19	FY 2021	Active	0	0	0	0	0	103	684	5,054	4,025	0	9,866	16,582	FY 2024
NX	Sanitary Sewer Rehabilitation 25	FY 2024	Active	0	0	0	0	0	0	0	0	157	959	1,117	18,664	FY 2027
NY	Sanitary Sewer Rehabilitation 26	FY 2025	Active	0	0	0	0	0	0	0	0	0	613	613	19,100	FY 2027
JX	Sanitary Sewer Rehabilitation 10	FY 2016	New	127	378	4,224	297	0	0	0	0	0	0	5,025	13,600	FY 2019
PW	Sanitary Sewer Rehabilitation 11	FY 2017	New	0	226	749	4,103	13	0	0	0	0	0	5,092	13,900	FY 2025
PX	Sanitary Sewer Rehabilitation 12	FY 2018	New	0	0	66	761	4,001	0	0	0	0	0	4,828	12,495	FY 2020
PY	Sanitary Sewer Rehabilitation 16	FY 2020	New	0	0	0	0	224	933	7,504	90	0	0	8,751	16,100	FY 2023
TOTAL COLLECTION SEWERS BUDGETS				\$4,190	\$6,318	\$7,629	\$7,108	\$8,140	\$17,982	\$17,299	\$17,894	\$21,345	\$22,394	\$130,300	\$338,534	

ON-GOING		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
EU	Sewer Lateral Rehab and Main Lining	FY 2009	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,600	FY 2015
BF	FY2011 - DSS Sanitary Sewer Projects	FY 2011	Active	816	833	0	0	0	0	0	0	0	0	1,650	8,165	FY 2017
CE	FY2012 - DSS Sanitary Sewer Projects	FY 2011	Active	0	0	0	0	0	0	0	0	0	0	0	9,385	FY 2015
CQ	FY2013 - DSS Sanitary Sewer Projects	FY 2013	Active	2	0	0	0	0	0	0	0	0	0	2	10,205	FY 2016
D6	FY2014 - DSS Sanitary Sewer Projects	FY 2013	Active	2,502	0	0	0	0	0	0	0	0	0	2,502	10,575	FY 2016
DI	FY2015 - DSS Sanitary Sewer Projects	FY 2015	Active	2,125	633	68	0	0	0	0	0	0	0	2,827	10,846	FY 2018

Sanitary Sewer

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

ON-GOING, CONT.		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
DW	FY2016 - DSS Sanitary Sewer Projects	FY 2015	Active	858	3,311	2,911	702	0	0	0	0	0	0	7,782	14,601	FY 2019
FP	FY2017 - DSS Sanitary Sewer Projects	FY 2017	Active	0	3,715	2,222	0	0	0	0	0	0	0	5,936	11,500	FY 2018
H6	FY2018 - DSS Sanitary Sewer Projects	FY 2018	Active	0	0	3,534	2,722	0	0	0	0	0	0	6,255	11,845	FY 2019
HN	FY2019 - DSS Sanitary Sewer Projects	FY 2019	Active	0	0	0	3,799	2,940	0	0	0	0	0	6,740	12,200	FY 2020
J1	FY2020 - DSS Sanitary Sewer Projects	FY 2020	Active	0	0	0	0	3,394	3,921	0	0	0	0	7,315	12,568	FY 2021
LN	FY2021 - DSS Sanitary Sewer Projects	FY 2021	Active	0	0	0	0	0	3,500	4,159	0	0	0	7,658	12,945	FY 2022
M9	FY2022 - DSS Sanitary Sewer Projects	FY 2022	Active	0	0	0	0	0	0	3,590	4,370	0	0	7,960	13,335	FY 2023
MF	FY2023 - DSS Sanitary Sewer Projects	FY 2023	Active	0	0	0	0	0	0	0	3,768	4,484	0	8,252	13,735	FY 2024
NW	FY2024 - DSS Sanitary Sewer Projects	FY 2024	Active	0	0	0	0	0	0	0	0	3,956	4,601	8,557	14,225	FY 2025
Q3	FY2003 - DSS Sanitary Sewer Projects	FY 2002	Active	1,159	808	0	0	0	0	0	0	0	0	1,967	13,863	FY 2017
OX	FY2025 - DSS Sanitary Sewer Projects	FY 2025	New	0	0	0	0	0	0	0	0	0	4,036	4,036	14,650	FY 2026
TOTAL ON-GOING BUDGETS				\$7,463	\$9,299	\$8,734	\$7,223	\$6,334	\$7,421	\$7,749	\$8,139	\$8,440	\$8,637	\$79,440	\$209,243	

PUMPING FACILITIES		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
CX	Sewer Facilities Security Upgrades	FY 2010	Active	\$109	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$113	\$1,335	FY 2017
GZ	Sewer Instrumentation & Control	FY 2012	Active	642	951	26	0	0	0	0	0	0	0	1,619	6,785	FY 2018
HB	DSS Sewer Pumping Project	FY 2010	Active	305	8	8	6	0	0	0	0	0	0	327	4,560	FY 2019
LY	Sewer Facilities Security Upgrades	FY 2018	Active	0	0	261	357	0	0	0	0	0	0	618	2,000	FY 2019
MB	3rd St & Constitution Ave NW PS	FY 2013	Active	843	698	109	0	0	0	0	0	0	0	1,650	7,374	FY 2018
MC	Additional Sewer Scada System Sites	FY 2015	Active	367	82	1,395	371	0	0	0	0	0	0	2,215	8,000	FY 2019
PM	East Side Pumping Station	FY 2019	New	0	0	0	61	160	1,362	60	0	0	0	1,644	4,000	FY 2027
PT	Existing Sewer Facilities Bldg Optimization	FY 2020	New	0	0	0	0	6	16	90	229	0	0	341	705	FY 2023
TOTAL PUMPING FACILITIES BUDGETS				\$2,267	\$1,743	\$1,800	\$795	\$165	\$1,378	\$151	\$229	\$0	\$0	\$8,528	\$34,759	

PROGRAM MANAGEMENT		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AU	Sanitary Sewer Program Management	FY 2001	Active	\$2,467	\$4,260	\$4,679	\$3,568	\$3,723	\$2,811	\$4,179	\$4,647	\$3,454	\$2,603	\$36,391	\$75,901	FY 2025
DN	Sewer Inspection Program	FY 2010	Active	2,339	7,834	5,703	2,468	2,104	2,029	2,342	2,795	3,302	2,675	33,591	52,420	FY 2026
LR	Sanitary Sewer Asset Management	FY 2014	Active	1,936	175	0	0	0	0	0	0	0	0	2,111	5,000	FY 2020
TOTAL PROGRAM MANAGEMENT BUDGETS				\$6,742	\$12,269	\$10,382	\$6,036	\$5,827	\$4,840	\$6,521	\$7,442	\$6,756	\$5,278	\$72,092	\$133,321	

INTERCEPTOR/TRUNK FORCE SEWER		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
IG	Sanitary Sewer Rehabilitation 3	FY 2016	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	FY 2015
A4	Future Sewer System Upgrades	FY 2004	Active	2,171	1,039	1,091	134	0	0	0	0	0	0	4,436	45,456	FY 2023

Sanitary Sewer

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

INTERCEPTOR/TRUNK FORCE, CONT.		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
DM	UAMI Relief Sewer	FY 2010	Active	\$396	\$62	\$0	\$414	\$3,931	\$1,483	\$0	\$0	\$0	\$0	\$6,287	\$14,505	FY 2021
DR	Low Area Trunk Sewer Rehabilitation	FY 2007	Active	531	4,255	1,314	0	0	0	0	0	0	0	6,100	17,735	FY 2018
FV	Rehabilitation Of East Side Interceptor	FY 2011	Active	0	0	0	0	0	0	0	0	0	0	0	15,143	FY 2017
FW	Rehab Piney Branch Trunk Sewer	FY 2011	Active	367	2,305	2,181	1,879	6,983	1,883	0	0	0	0	15,598	38,023	FY 2021
FY	Rehab Upstream Rock Creek Main Intrcpt	FY 2013	Active	1,988	5,029	0	1,061	3,674	0	0	0	0	0	11,752	29,560	FY 2020
G2	Sewer Structure Rehabilitation (1)	FY 2010	Active	370	333	664	465	0	0	0	0	0	0	1,833	9,182	FY 2019
G4	Upper Potomac Intercept Sewer Rehab.	FY 2000	Active	630	0	0	0	0	0	0	0	1,013	1,921	3,564	14,014	FY 2026
G5	Sewer Rehab Near Creek Beds	FY 2010	Active	1,342	3,142	11,069	2,763	127	0	0	0	0	0	18,443	50,893	FY 2020
G6	Sanitary Sewers Under Buildings 1	FY 2009	Active	472	89	979	1,058	0	0	0	0	0	0	2,599	8,474	FY 2019
GG	Large Sewer Rehab 2	FY 2013	Active	81	0	14	14	947	188	0	0	0	0	1,245	3,000	FY 2021
GH	Large Sewer Rehab 3	FY 2012	Active	27	0	29	103	1,946	382	0	0	0	0	2,487	6,150	FY 2021
HS	Rehabilitation Of Influent Sewers	FY 2015	Active	0	1,196	0	0	0	0	0	0	105	960	2,261	63,000	FY 2031
HT	Rehabilitation Of Anacostia Force Main	FY 2012	Active	131	295	178	896	446	4	0	0	0	0	1,950	11,290	FY 2021
IF	Sanitary Sewer Rehabilitation 2	FY 2014	Active	280	2,624	0	0	0	0	0	0	0	0	2,904	8,273	FY 2018
IK	Potomac Force Main Rehabilitation	FY 2012	Active	197	470	1,239	204	0	0	0	0	0	0	2,109	6,074	FY 2019
IL	Creekbed Sewer Rehabilitation 2	FY 2013	Active	2,010	6,894	1,936	764	3,041	582	0	0	0	0	15,227	44,812	FY 2021
IM	Creekbed Sewer Rehabilitation 3	FY 2013	Active	123	650	1,050	1,523	650	4,506	420	0	0	0	8,921	19,435	FY 2022
IN	Upper East Side Trunk Sewer Rehab	FY 2012	Active	492	593	741	4,399	451	0	0	0	0	0	6,674	18,250	FY 2020
J0	B St/New Jersey Ave Trunk Sewer Rehab	FY 2003	Active	82	226	144	1,599	4,391	895	0	0	0	0	7,336	16,200	FY 2021
J1	Oxon Run Sewer Rehabilitation	FY 2003	Active	724	918	284	1,411	6,237	4,069	0	0	0	0	13,643	36,051	FY 2021
LZ	Potomac Interceptor - Rehab Ph 2	FY 2015	Active	264	1,073	2,139	5,019	777	1,754	4,967	5,399	5,551	5,936	32,878	79,273	FY 2027
N7	Potomac Sewer System Rehab.	FY 1999	Active	1,379	101	197	1,895	4,583	2,231	0	0	0	0	10,385	67,626	FY 2021
O4	Southwest Interceptor Inspection/Rehab	FY 2019	Active	0	0	0	48	94	248	2,008	153	0	0	2,551	4,530	FY 2023
O7	East Rock Creek Diversion Inspect/Rehab	FY 2024	Active	0	0	0	0	0	0	0	0	0	351	351	6,600	FY 2027
OA	West Rock Creek Diversion Inspect/Rehab	FY 2026	Active	0	0	0	0	0	0	0	0	0	0	0	3,810	FY 2029
IQ	Slash Run Sewer Rehabilitation	FY 2021	New	0	0	0	0	0	0	450	1,846	3,940	0	6,236	10,000	FY 2024
IR	Anacostia Main Interceptor Rehabilitation	FY 2022	New	0	0	0	0	0	0	0	1,393	2,800	5,478	9,671	15,000	FY 2025
JK	Little Falls Rehabilitation Project	FY 2018	New	0	0	60	139	1,438	282	0	0	0	0	1,919	4,000	FY 2021
JM	Northwest Major Sewer Rehabilitation	FY 2019	New	0	0	0	0	300	1,167	2,387	0	0	0	3,855	7,000	FY 2022
PJ	Re-Activation Of Anacostia Force Main	FY 2016	New	70	221	248	6,264	2,083	0	0	0	0	0	8,886	20,000	FY 2020
PU	Easby Point Trunk Sewer	FY 2021	New	0	0	0	0	0	245	492	2,944	548	0	4,229	7,000	FY 2024
PV	Broad Branch Trunk Sewer	FY 2024	New	0	0	0	0	0	0	0	0	0	1,246	1,246	13,000	FY 2027
TOTAL INTERCEPTOR/TRUNK FORCE SEWER BUDGETS				\$14,124	\$31,514	\$25,556	\$32,053	\$42,099	\$19,921	\$10,723	\$11,736	\$13,958	\$15,893	\$217,577	\$713,359	
TOTAL SANITARY SEWER BUDGETS				\$34,786	\$61,144	\$54,102	\$53,215	\$62,566	\$51,543	\$42,443	\$45,439	\$50,498	\$52,201	\$507,937	\$1,429,216	



Bryant Street Pumping Station



Water



Fire Hydrant

FY 2016 - FY 2025 Disbursement Plan

FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime Budget
\$61,878	\$62,537	\$44,909	\$60,975	\$56,201	\$59,170	\$61,158	\$68,675	\$80,703	\$79,790	\$635,995	\$1,847,670

(\$ in thousands)

OVERVIEW

Delivery of safe, clean, high-quality drinking water is one of DC Water's highest priorities. Drinking water in the District of Columbia comes from the Potomac River. The U.S. Army Corps of Engineers, Washington Aqueduct (Aqueduct), is a federally owned agency responsible for treating the drinking water. DC Water purchases water from the Aqueduct and is responsible for maintaining the distribution system that delivers drinking water to customers. DC Water maintains over 1,300 miles of pipe and distributes drinking water to more than 600,000 residents and businesses in the District of Columbia.

The DC Water distribution system begins at the water treatment plant and ends at private service lines. Customer service lines connect to the mains in the streets and deliver water to residents and commercial buildings, eventually reaching taps. Water is continuously moving through our distribution system, typically at a high water flow that keeps the water fresh. However, once the water leaves the main and enters a customer's service line, the flow of water is dependent on individual water usage.

OVERVIEW, CONT.

DC Water is committed to providing customers with the highest quality drinking water and continuously works to deliver water that goes beyond federal standards. We accomplish this goal by aiming to meet target levels that are stricter than water quality standards required by the EPA. We have a dedicated Drinking Water Division that collects and analyzes water samples throughout the District of Columbia. These monitoring programs include sampling and analyses that are required by EPA and additional sampling programs conducted voluntarily by DC Water.

DC Water conducts compliance monitoring on a daily basis to ensure water quality meets EPA standards. Water quality technicians collect and analyze samples for lead and copper, total coliform (bacteria) and disinfection byproduct levels. Compliance monitoring ensures that drinking water treatment effectively prevents pipe corrosion, removes bacteria and other contaminants, and minimizes potentially harmful treatment byproducts.

DC Water operates voluntary sampling programs to support our commitment to providing high-quality drinking water to our customers. Water quality technicians collect and analyze hundreds of water samples throughout the District of Columbia. The Drinking Water Division responds quickly to customer complaints and conducts water quality monitoring among the city's most vulnerable populations. DC Water operates two mobile laboratories that allow technicians to conduct on-site water quality tests and respond to emergencies.

PROGRAM AREAS

Distribution Systems – Provides for the rehabilitation, replacement or extension of the water distribution system through several projects.

- Small Diameter Water Main Rehabilitation
- Large Diameter Water Main Replacement, and
- Valve Replacements

Lead Program – The replacement of approximately 30,050 lead water service lines with copper piping throughout the water distribution system.

On-Going – Includes small projects for the extension of water mains to serve new development in the District, repairing water main breaks, replacing valves and fire hydrants, replacing water service connections, and other minor water main rehabilitation work.

Pumping Facilities – Rehabilitate or replace water-pumping stations in the system.

DDOT – Projects for the relocation, rehabilitation, replacement and extension of water mains, for which the work is completed under District Department of Transportation (DDOT) construction contracts for street paving or reconstruction.

PROGRAM AREAS, CONT.

Storage Facilities – Studies have identified the need for several new storage facilities to support changing development patterns, to provide additional water pressure to certain areas of the District, and to provide emergency backup service.

Program Management – Provides engineering program management services for the water system capital improvements program, including assessing system needs, developing facilities plans, conceptual designs, design scopes of work, cost estimates, task orders or agreements, and design document review.

ACCOMPLISHMENTS

- The water service area exceeded the DC Water Board goal of renewing 1.0% of the small diameter water mains for FY 2015. This was accomplished by a combination of replacement with new water mains and by rehabilitating existing water mains using cleaning and cement mortar lining.
- Replacement of Discharge Piping at Bryant Street Pumping Station, was completed four months ahead of schedule, on September 2015. This high-profile construction project replaced and upgraded one hundred year old pipes to reduce the risk (likelihood and consequences) associated with several large water mains immediately outside of the main water pumping station.
- DC Water continued its Pipe Condition Assessment (PCA), of large diameter water mains. The assessment included detailed field inspection and leak detection of five miles of high-risk water transmission mains. Recommendations for rehabilitation are proceeding to specific capital projects to address the identified pipe sections in need of repairs.
- The construction of the Fort Reno Reservoir #1 Upgrades project was completed on schedule. This project is part of the EPA required upgrades to DC Water storage facilities, as identified in the triennial EPA Sanitary Survey.
- The construction of the I6th & Alaska Pumping Station Upgrades project was completed. This project is the first major rehabilitation and upgrade of this pumping station, increasing operational flexibility and reducing long term maintenance costs.

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

DISTRIBUTION SYSTEMS		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AK	WSSC Interconnections	FY 2002	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,064	FY 2015
DF	Rehab 24 Steel Main - Rock Creek	FY 2007	Closed	0	0	0	0	0	0	0	0	0	0	0	364	FY 2015
N8	Small Diameter Water Main Rehab 6	FY 2009	Closed	0	0	0	0	0	0	0	0	0	0	0	11,739	FY 2015
BZ	Large Valve Repl. (Contracts 8 - 9 & 10)	FY 2009	Active	107	0	0	0	0	0	0	0	0	0	107	12,703	FY 2017
C9	Large Diameter Water Mains I	FY 2014	Active	1,138	2,111	2,879	4,622	326	0	0	0	0	0	11,077	19,251	FY 2021
DE	Small Diameter Water Main Rehab 12	FY 2015	Active	1,315	6,997	8,002	2,734	1,552	0	0	0	0	0	20,600	39,850	FY 2020
FI	Small Diameter Water Main Rehab 13	FY 2016	Active	108	780	9,303	9,819	215	0	0	0	0	0	20,225	32,770	FY 2020
F2	Small Diameter Water Main Rehab 14	FY 2017	Active	0	763	740	10,194	11,306	364	0	0	0	0	23,367	40,470	FY 2021
F6	Steel Water Main Rehab - Phase I	FY 2009	Active	12	65	211	2,197	1,337	0	0	0	0	0	3,823	11,954	FY 2020
FE	20 Low Service Main & PRV	FY 2012	Active	2,315	676	0	0	0	0	0	0	0	0	2,991	8,008	FY 2017
FT	Water Mains Rehab Phase II	FY 2015	Active	369	491	926	3,321	7,846	6,422	5,883	4,233	293	0	29,784	43,850	FY 2024
GQ	Fire Hydrant Replacement Program - Ph II	FY 2010	Active	976	182	55	31	18	0	0	0	0	0	1,261	28,244	FY 2022
GR	Small Diameter Water Main Rehab 15	FY 2018	Active	0	0	1,296	1,620	7,014	10,990	3,104	0	0	0	24,024	39,750	FY 2022
GX	Large Dia. Water Main Repl. II	FY 2023	Active	0	0	0	0	0	0	0	55	447	2,205	2,707	23,180	FY 2029
HX	Small Diameter Water Main Rehab 16	FY 2019	Active	0	0	0	3,324	2,128	6,947	10,895	3,044	0	0	26,338	37,350	FY 2023
I8	Large Valve Replacement (Contract 11-13)	FY 2012	Active	2,801	2,413	165	0	0	0	0	0	0	0	5,380	18,549	FY 2018
IB	Large Valve Replacement (Contract 17-19)	FY 2018	Active	0	0	39	221	1,572	3,567	3,762	2,353	131	0	11,644	20,130	FY 2024
J7	Small Diameter Water Main Rehab 17	FY 2020	Active	0	0	0	0	5,042	2,893	8,964	13,804	3,647	0	34,349	46,650	FY 2024
JZ	Large Dia Water Main Repl 3 - 4 & 5	FY 2021	Active	0	0	0	0	0	336	1,436	6,740	14,017	15,101	37,631	63,710	FY 2027
K7	Large Dia Water Main Repl 6 - 7 & 8	FY 2024	Active	0	0	0	0	0	0	0	0	408	1,631	2,039	69,920	FY 2030
KA	Large Valve Repl Contracts 20 - 21 & 22	FY 2021	Active	0	0	0	0	0	54	306	2,058	4,339	4,294	11,052	17,610	FY 2027
KB	Large Valve Repl Contracts 23 - 24 & 25	FY 2024	Active	0	0	0	0	0	0	0	0	64	348	412	19,220	FY 2029
KE	Small Diameter Water Main Rehab 18	FY 2021	Active	0	0	0	0	0	4,827	3,045	9,674	14,179	3,742	35,467	46,340	FY 2025
KF	Small Diameter Water Main Rehab 19	FY 2022	Active	0	0	0	0	0	0	5,414	3,320	9,968	14,547	33,249	47,730	FY 2026
KG	Small Diameter Water Main Rehab 20	FY 2023	Active	0	0	0	0	0	0	0	6,091	3,438	10,347	19,877	49,160	FY 2027
KH	Small Diameter Water Main Rehab 21	FY 2024	Active	0	0	0	0	0	0	0	0	6,402	3,549	9,951	50,640	FY 2028
MU	Small Diameter Water Main Rehab 2	FY 2002	Active	586	0	0	0	0	0	0	0	0	0	586	15,043	FY 2016
MV	Small Diameter Water Main Rehab 3	FY 2006	Active	88	621	415	0	0	0	0	0	0	0	1,125	15,624	FY 2018
MW	Small Diameter Water Main Rehab 4	FY 2007	Active	260	0	0	0	0	0	0	0	0	0	260	7,713	FY 2017
MX	Small Diameter Water Main Rehab 5	FY 2007	Active	0	0	0	0	0	0	0	0	0	0	0	11,165	FY 2019
N9	Small Diameter Water Main Rehab 7	FY 2010	Active	0	0	0	0	0	0	0	0	0	0	0	19,003	FY 2016
NA	Clean & Line 20 4th High Wtrmain	FY 1999	Active	216	75	0	0	0	0	0	0	0	0	291	4,556	FY 2017

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

DISTRIBUTION SYSTEMS, CONT.		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
O0	Small Diameter Water Main Rehab 8	FY 2011	Active	\$138	\$102	\$33	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$273	\$20,699	FY 2018
O1	Small Diameter Water Main Rehab 9	FY 2012	Active	6,868	1,669	0	0	0	0	0	0	0	0	8,537	24,987	FY 2017
O2	Small Diameter Water Main Rehab 10	FY 2013	Active	9,231	2,534	118	0	0	0	0	0	0	0	11,883	36,842	FY 2018
O3	Small Diameter Water Main Rehab 11	FY 2014	Active	6,754	13,391	1,030	0	0	0	0	0	0	0	21,175	38,897	FY 2018
S3	Large Valve Replacement (Contract 3-7)	FY 1999	Active	361	0	0	0	0	0	0	0	0	0	361	23,100	FY 2018
S5	Large Dia Wtrmain Int. Repairs	FY 2001	Active	2,010	0	0	0	0	0	0	0	0	0	2,010	16,972	FY 2016
K1	Small Diameter Water Main Rehab 22	FY 2025	New	0	0	0	0	0	0	0	0	0	7,371	7,371	52,160	FY 2029
PK	Large Meter Vault And Piping Improve	FY 2016	New	15	59	396	120	0	0	0	0	0	0	589	980	FY 2019
TOTAL DISTRIBUTION SYSTEMS BUDGETS				\$35,667	\$32,929	\$25,610	\$38,203	\$38,356	\$36,401	\$42,808	\$51,372	\$57,333	\$63,136	\$421,815	\$1,087,947	

LEAD PROGRAM		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
BW	Lead Service Replacement Program	FY 2003	Active	\$1,575	\$1,171	\$870	\$1,547	\$2,114	\$2,507	\$2,885	\$3,190	\$3,129	\$3,633	\$22,622	\$208,640	FY 2031
TOTAL LEAD PROGRAM BUDGETS				\$1,575	\$1,171	\$870	\$1,547	\$2,114	\$2,507	\$2,885	\$3,190	\$3,129	\$3,633	\$22,622	\$208,640	

ON-GOING		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
CC	FY2012 - DWS Water Projects	FY 2012	Active	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,282	FY 2016
CP	FY2013 - DWS Water Projects	FY 2013	Active	0	0	0	0	0	0	0	0	0	0	0	8,830	FY 2016
D5	FY2014 - DWS Water Projects	FY 2014	Active	780	0	0	0	0	0	0	0	0	0	780	10,147	FY 2017
DG	FY2015 - DWS Water Projects	FY 2015	Active	1,721	474	0	0	0	0	0	0	0	0	2,196	9,630	FY 2017
DY	FY2016 - DWS Water Projects	FY 2016	Active	2,604	2,388	0	0	0	0	0	0	0	0	4,992	9,630	FY 2017
FK	FY2017 - DWS Water Projects	FY 2017	Active	0	4,254	1,122	0	0	0	0	0	0	0	5,377	9,630	FY 2018
GS	FY2018 - DWS Water Projects	FY 2018	Active	0	0	4,184	1,219	0	0	0	0	0	0	5,403	9,630	FY 2019
HY	FY2019 - DWS Water Projects	FY 2019	Active	0	0	0	5,092	664	0	0	0	0	0	5,755	9,630	FY 2020
JA	FY2020 - DWS Water Projects	FY 2020	Active	0	0	0	0	5,268	663	0	0	0	0	5,931	9,630	FY 2021
KW	FY2021 - DWS Water Projects	FY 2021	Active	0	0	0	0	0	5,053	952	0	0	0	6,004	9,630	FY 2022
KX	FY2022 - DWS Water Projects	FY 2022	Active	0	0	0	0	0	0	4,848	911	0	0	5,759	9,664	FY 2023
KY	FY2023 - DWS Water Projects	FY 2023	Active	0	0	0	0	0	0	0	4,968	915	0	5,883	10,150	FY 2024
KZ	FY2024 - DWS Water Projects	FY 2024	Active	0	0	0	0	0	0	0	0	5,255	952	6,208	10,452	FY 2025
LI	FY2025 - DWS Water Projects	FY 2025	New	0	0	0	0	0	0	0	0	0	5,386	5,386	10,780	FY 2026
TOTAL ON-GOING BUDGETS				\$5,105	\$7,116	\$5,306	\$6,310	\$5,931	\$5,716	\$5,799	\$5,879	\$6,171	\$6,338	\$59,672	\$135,714	

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

PUMPING FACILITIES		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
AY	Upgrades To Ft. Reno Pumping Station	FY 2002	Active	\$1,378	\$169	\$386	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$1,951	\$13,549	FY 2019
F8	16th & Alaska Ave Pump Sta Upgrades	FY 2010	Active	325	51	0	0	0	0	0	0	0	0	376	4,879	FY 2017
FD	Water Fac Security System Upgrades	FY 2010	Active	13	30	23	14	0	0	0	0	0	0	79	2,067	FY 2020
FH	Discharge Piping Bryant St. Pump Sta	FY 2008	Active	263	117	9	0	0	0	0	0	0	0	389	14,279	FY 2018
HA	DWS Water Pumping Project	FY 2010	Active	352	0	0	0	0	0	0	0	0	0	352	1,560	FY 2016
HV	Bryant St PS - Spill Header Flow Contol	FY 2013	Active	263	2,235	227	0	0	0	0	0	0	0	2,725	6,502	FY 2018
JB	Bryant Street PS Improvements - Ph II	FY 2012	Active	538	2,145	2,548	0	0	0	0	0	0	0	5,232	11,351	FY 2018
LT	Water System SCADA	FY 2014	Active	289	257	575	2,063	1,564	130	0	0	0	0	4,877	8,137	FY 2021
LU	Water Facilities Security Sys Upgrades 2	FY 2017	Active	0	37	173	360	344	189	102	0	0	0	1,204	2,000	FY 2022
M6	Rehab. Bryant St. Pump Sta.	FY 1999	Active	281	0	0	0	0	0	0	0	0	0	281	62,896	FY 2016
M7	Replacement Of Anacostia PS	FY 2002	Active	131	43	269	0	0	0	0	0	0	0	444	33,434	FY 2025
HI	Bryant Street Pump Station Phase III	FY 2020	New	0	0	0	0	45	93	221	1,149	2,837	0	4,344	5,920	FY 2024
HR	Anacostia Pump Sta Improvements Ph II	FY 2021	New	0	0	0	0	0	46	171	362	2,471	432	3,483	4,700	FY 2025
OR	Fort Reno PS Improvements Ph II	FY 2021	New	0	0	0	0	0	53	191	314	3,160	1,077	4,795	6,430	FY 2025
PS	Existing Water Facilities Bldg Optimization	FY 2020	New	0	0	0	0	153	236	50	0	0	0	438	695	FY 2022
TOTAL PUMPING FACILITIES BUDGETS				\$3,833	\$5,083	\$4,211	\$2,454	\$2,105	\$747	\$735	\$1,824	\$8,468	\$1,510	\$30,970	\$178,399	

DDOT		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
B0	FY2010 - DDOT Water Projects	FY 2010	Active	\$158	\$10	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$169	\$17,171	FY 2018
BN	FY2011 - DDOT Water Projects	FY 2011	Active	381	413	134	0	0	0	0	0	0	0	928	8,738	FY 2018
CJ	FY2012 - DDOT Water Projects	FY 2008	Active	219	204	252	0	0	0	0	0	0	0	676	6,474	FY 2018
CM	FY2013 - DDOT Water Projects	FY 2012	Active	135	0	0	0	0	0	0	0	0	0	135	1,549	FY 2017
TOTAL DDOT BUDGETS				\$893	\$627	\$389	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,909	\$33,933	

STORAGE FACILITIES		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
FA	Water Storage Facility Upgrades	FY 2009	Active	\$4,729	\$1,168	\$1,150	\$4,831	\$989	\$0	\$0	\$0	\$0	\$0	\$12,868	\$31,607	FY 2020
HW	Rehabilitation Of Elevated Water Tanks	FY 2020	Active	0	0	0	0	102	305	777	2,188	1,343	557	5,273	7,000	FY 2025
MA	St. Elizabeth Water Tank	FY 2002	Active	3,477	7,165	2,158	1,813	0	0	0	0	0	0	14,613	36,883	FY 2019
MQ	2mg 4th High Storage Tank	FY 2004	Active	813	258	118	422	1,447	1,731	0	0	0	0	4,789	9,580	FY 2021
MR	2nd High Water Storage	FY 2008	Active	496	524	0	355	1,241	5,546	1,682	0	0	0	9,844	16,764	FY 2022
TOTAL STORAGE FACILITIES BUDGETS				\$9,515	\$9,115	\$3,427	\$7,420	\$3,779	\$7,582	\$2,459	\$2,188	\$1,343	\$557	\$47,387	\$101,834	

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

PROGRAM MANAGEMENT		Start	Status	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime	Completion
KV	Water Program Mgt. Services 2F	FY 2019	Active	\$0	\$0	\$0	\$1,598	\$3,916	\$6,218	\$6,471	\$4,221	\$2,324	\$0	\$24,746	\$30,610	FY 2024
LB	Water Program Mgt. Services 2G	FY 2024	Active	0	0	0	0	0	0	0	0	1,935	4,616	6,551	35,480	FY 2029
LQ	Water Service Area Asset Management	FY 2013	Active	973	978	0	0	0	0	0	0	0	0	1,951	5,000	FY 2020
ME	Water Sys Program Management Services	FY 1999	Active	4,316	5,517	5,096	3,444	0	0	0	0	0	0	18,373	30,113	FY 2019
TOTAL PROGRAM MANAGEMENT BUDGETS				\$5,288	\$6,495	\$5,096	\$5,042	\$3,916	\$6,218	\$6,471	\$4,221	\$4,259	\$4,616	\$51,621	\$101,203	
TOTAL WATER BUDGETS				\$61,878	\$62,537	\$44,909	\$60,975	\$56,201	\$59,170	\$61,158	\$68,675	\$80,703	\$79,790	\$635,995	\$1,847,670	



Skimmer Boat – Anacostia River



Mobile Command Center



Dalecarlia Water Treatment Plant – Washington Aqueduct

	FY 2016 - FY 2025 Disbursement Plan										10-Yr Total	Lifetime Budget
	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025		
CAPITAL EQUIPMENT	\$39,226	\$38,737	\$27,127	\$26,289	\$10,401	\$10,035	\$9,413	\$9,119	\$8,896	\$8,915	\$188,156	\$205,861
WASHINGTON AQUEDUCT	10,838	10,838	10,838	10,888	11,018	11,199	11,184	11,054	10,816	9,537	108,209	108,209
TOTAL	\$50,063	\$49,575	\$37,964	\$37,177	\$21,419	\$21,234	\$20,597	\$20,173	\$19,712	\$18,452	\$296,365	\$314,070

(\$ in thousands)

OVERVIEW

Additional Capital Programs is a subset of the CIP comprised of Capital Equipment and the Washington Aqueduct.

Capital Equipment – This category includes capital purchases that have a life of at least three years and a cost that exceeds \$5,000. Beginning in FY 2015, the capital disbursement budget was realigned to better reflect responsible program areas. The current capital equipment disbursement budget includes the following cluster groups:

- **Blue Plains** – This group is comprised of the Departments of Maintenance Services, Operations and Process Engineering. These departments’ activities are within the Blue Plains Advanced Wastewater Treatment Plant. Activities/purchases include: major pump rebuild/replacements, large electric motors, high priority rehab program, centrifuge rebuild/replacements, membrane diffuser/mechanical replacements, electrical replacements, lab equipment, process computer control systems, actuators, flow meters, and programmable logic controllers.

OVERVIEW, CONT.

- **Finance, Accounting and Budget** – Capital equipment projects within this cluster are primarily for the enhancements to DC Water’s existing financial and payroll software solutions. This group also manages two reserve funds to support additional capital equipment needs throughout DC Water as well as enterprise technology projects as approved by the IT Local Steering Committee.
- **Customer Care and Operations** – This group is comprised of the Departments of Sewer Services, Water Services, and Distribution and Conveyance Systems as well as the Automated Meter Reading (AMR) Program. Work within this group is for rehabilitating and replacing equipment outside of Blue Plains in the distribution and collection systems. Activities/purchases include: pipes/fittings, manhole covers/frames, pumps, flow meters, catch basins, sewer cameras, cured-in-place pipe, locators, emergency generators, water mains, service lines, valves, water sample lab equipment, backflow preventers, SCADA hardware, and fire hydrant custodial locks. In addition to these items, the AMR Program includes the on-going replacement of residential and commercial water meters and related automated meter reading equipment.
- **Independent Offices** – Capital equipment projects within this cluster are primarily for infrastructure projects for the Department of Information Technology. Activities/purchases include: desktop replacements, cabling, radios, uninterruptible power system, server hardware, SCADA core switches, VOIP upgrades and document imaging system.
- **Support Services** – This group is comprised of capital equipment activities for the Departments of Fleet Management and Facilities Management. Activities/purchases include: vehicles, buses, vac trucks, boats, backhoes, cranes, trailers, forklifts, HVAC systems, fire suppression systems, elevators, plumbing, rollup doors, photocopiers, appliances, furniture, fixtures, signage, roofing, and general facility improvements.

Washington Aqueduct – The Washington Aqueduct, managed by the U.S. Army Corps of Engineers, provides wholesale water treatment services to DC Water and two wholesale customers in Northern Virginia, Arlington County and Fairfax Water. DC Water purchases approximately 72 percent of the water produced by the Aqueduct’s two treatment facilities, the Dalecarlia and McMillan Treatment Plants, and thus is responsible for approximately 72 percent of the Aqueduct’s operating and capital costs. Under federal legislation and a memorandum of understanding enacted in 1997 and updated in 2013 when Fairfax Water replaced the City of Falls Church, DC Water and the Aqueduct’s wholesale customers in Northern Virginia partners have a much greater role in oversight of the Aqueduct’s operations and its Capital Improvement Program than prior to 1997. The Aqueduct’s CIP is broken into six primary areas, with specific projects under each area.

- Dalecarlia Pumping Station Improvements
- Cabin John Bridge Repairs
- McMillan Water Treatment Plant Improvements
- Appurtenant Transmission and Storage Facility
- Dalecarlia Water Treatment Plant Improvements
- Alternate Treatment Methods

The U.S. Army Corps of Engineers, in accordance with Federal procurement regulations, requires DC Water to remit cash in an amount equal to the total project cost in advance of advertising contracts, and these funds are transferred immediately to a Corps/U.S. Treasury account to be drawn down during the execution of the project, through completion, with no interest going to DC Water. Over the years, extensive discussions with the U.S. Office of Management and Budget (OMB) and the Corps resulted in a proposal in the President’s FY 2006 and FY 2007 budgets that would allow Aqueduct customers to deposit funds for any projects required by

OVERVIEW, CONT.

their NPDES permit (including the residuals project) to a separate escrow account, allowing the Aqueduct customers to retain interest on these funds. The proposal was submitted in May 2006 to the Senate and House. During FY 2006, the Corps briefed the Senate Environment and Public Works Committee staff and in conjunction with DC Water briefed the Senate Homeland Security and Government Affairs committee staff. Additionally, DC Water and Washington Aqueduct staff provided DC Delegate Norton's office with the Administration's proposal. Neither of the Senate committees acted on the proposal.

We continue to pursue other options that would be more favorable to DC Water, including transferring dollars on a phased basis, utilizing taxable bonds, or taxable commercial paper. In the past, some of these options have not been viewed favorably by the U.S. Treasury, but we will continue our outreach efforts to Congressional staff, federal agencies and the Corps on this critical issue. We expect to develop a more efficient financing system in the near future.

Additional Capital Programs

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

CAPITAL EQUIPMENT		FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	10-Yr Total	Lifetime
BLUE PLAINS													
EQP4830	Maintenance Services	\$3,000	\$3,250	\$3,500	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$30,750	\$30,750
EQP4710	Wastewater Operations	140	140	140	140	140	140	140	140	140	140	1,400	1,400
EQP4730	Wastewater Process Engineering	500	1,585	1,170	500	500	500	500	500	500	500	6,754	6,754
Subtotal		3,640	4,975	4,810	3,640	3,640	3,640	3,640	3,640	3,640	3,640	38,904	38,904
FINANCE, ACCOUNTING & BUDGET													
EQP2410	Finance, Accounting & Budget	715	0	0	0	67	67	67	0	0	0	915	915
EQP2411	IT Reserve Fund	5,000	7,835	7,742	8,645	0	0	0	0	0	0	29,222	29,222
EQP2411	Authority-wide Reserve Fund	12,096	10,627	1,061	2,414	2,414	2,414	2,414	2,414	2,414	2,414	40,679	40,679
Subtotal		17,811	18,462	8,803	11,059	2,480	2,480	2,480	2,414	2,414	2,414	70,816	70,816
CUSTOMER CARE & OPERATIONS													
EQP4610	Sewer Services	400	400	400	400	400	400	240	235	235	235	3,345	3,345
EQP4410	Water Services	400	400	400	400	400	400	400	400	400	400	4,000	4,000
EMI	Automated Meter Reading	7,384	6,707	6,345	5,672	1,156	1,156	1,156	1,156	1,156	1,156	33,042	50,747
EQP4210	Distribution & Conveyance Systems	400	400	400	400	400	400	158	158	203	259	3,177	3,177
Subtotal		8,584	7,907	7,545	6,872	2,356	2,356	1,953	1,948	1,993	2,050	43,564	61,268
INDEPENDENT OFFICES													
EQP2110	Information Technology	2,970	2,165	2,258	1,355	0	0	0	0	0	0	8,748	8,748
Subtotal		2,970	2,165	2,258	1,355	0	0	0	0	0	0	8,748	8,748
SUPPORT SERVICES													
EQP5610	Fleet Management	4,921	3,929	2,411	2,063	1,300	1,200	1,000	625	500	500	18,449	18,449
EQP3410	Facilities Management	1,300	1,300	1,300	1,300	625	359	339	492	349	312	7,676	7,676
Subtotal		6,221	5,229	3,711	3,363	1,925	1,559	1,339	1,117	849	812	26,125	26,125
TOTAL CAPITAL EQUIPMENT		\$39,226	\$38,737	\$27,127	\$26,289	\$10,401	\$10,035	\$9,413	\$9,119	\$8,896	\$8,915	\$188,156	\$205,861
WASHINGTON AQUEDUCT		10,838	10,838	10,838	10,888	11,018	11,199	11,184	11,054	10,816	9,537	108,209	108,209
TOTAL ADDITIONAL CAPITAL PROGRAMS		\$50,063	\$49,575	\$37,964	\$37,177	\$21,419	\$21,234	\$20,597	\$20,173	\$19,712	\$18,452	\$296,365	\$314,070



Blue Plains Tunnel Boring Machine, Ladybird



Secondary Sedimentation



Inside View of Anaerobic Digester

PROJECT DETAIL DEFINITIONS

Service Area Title - Currently, there are eight defined project service areas in DC Water's CIP: Non Process Facilities, Wastewater Treatment, Combined Sewer Overflow, Stormwater, Sanitary Sewer, Water, Capital Equipment, and Washington Aqueduct. The service area categorization groups together similar projects based on facility location and type of work being done in the project.

Program Title - A further categorization within the service area and groups projects by type of process. For example, in the Wastewater Treatment Service Area, there are four programs: Liquid Processing, Plantwide, Solids Processing and Enhanced Nitrogen Removal Facilities.

Project ID/Project Title - Project ID is the alpha numeric code unique to each project. The project title reflects the descriptive name given to the project.

Managing Department - Lists the department or organization responsible for managing the project. The majority of the projects in DC Water's CIP are managed by an internal DC Water operating department. DC Water's CIP also includes some projects which are managed by outside organizations. It is advantageous for DC Water to coordinate some of its capital work on the water and sewer infrastructure with the District's Department of Transportation (DDOT). The funding required for DC Water's work is included in the CIP, but those projects are managed by DDOT. Approximately 72 percent of the Washington Aqueduct's capital program is funded by DC Water, but the U.S. Army Corps of Engineers actually manages those projects.

EPMC - Indicates which projects receive Engineering Program Management Consultant costs.

Priority - DC Water engages in and prioritizes capital projects based on specific criteria. A project comprises of one or more jobs which, in turn, have individual priorities. Although projects may have more than one priority associated with it, the Priority mentioned on the capital project detail is the one that has the largest budgeted dollars associated with it. The following is a list of definitions of the priorities shown on the individual project sheets:

- **1A. Court Ordered, Stipulated Agreements, Regulatory Requirements, Etc.** - These are the projects that are undertaken to comply with court orders, stipulated agreements, regulatory issues, and the National Pollutant Discharge Elimination System (NPDES).
- **2A. Health and Safety** - These are projects that are required to eliminate or mitigate impact on public health or safety. These projects are also required to ensure that there is no failure to comply with DC Water's NPDES permit requirements.
- **2B. Board Policy, DC Water's Commitment to Outside Agencies** - These are projects that are undertaken to comply with a policy that the Board may adopt as a result of its commitment to outside Agencies.
- **2C. Potential Failure/Ability to Continue Meeting Permit Requirement** - These are projects that are undertaken to construct or rehabilitate Facilities or Equipment that is in danger of failing, and that such failure may potentially endanger DC Water's ability to continue meeting permit requirements.
- **2D. High Profile, Good Neighbor Policy** - These are projects that are undertaken to remediate concerns expressed by Citizens or Public Officials.
- **3A. Good Engineering, High Pay Back, Mission/Function** - This category includes projects that are needed for rehabilitation and upgrading of facilities and infrastructure required for DC Water to fulfill its mission and function, as well as projects needed to resolve operational issues and inefficiencies. This category also recognizes cost savings in operation and maintenance.
- **3B. Good Engineering, Low Pay Back, Mission/Function Over Long Term** - This category includes projects that are needed for rehabilitation and upgrading of facilities and infrastructure, but have a lower priority than projects in 3A above, yet help DC Water to fulfill its mission over the long term.

Project Description - General description of the work to be done within the project.

Impact on Operations - Describes the anticipated impact on DC Water's operations when the project is completed.

Design/Construction/Project Completion Dates - Anticipated dates are shown.

Effective Funding by User - Lists the anticipated project funding, by source and is based on the current Intermunicipal Agreement (IMA) and anticipates EPA funding where grants have been previously approved or in anticipation of that approval.

FY 2016 & FY 2017 Approved Lifetime Budgets - The full project budget is approved and reviewed each year by DC Water's Board of Directors. Increases or decreases to the total project life budget are shown, if applicable. Lifetime budgets for program management have been reduced, and project budgets increased, to reflect the allocation of costs for program management services at the conclusion of the prior fiscal year.

Allocated Labor as of FY 2015 - In-house labor from project inception through FY 2015. Labor is not included in the lifetime budget.

Disbursements/Commitments Budget - Projected disbursements and commitments for various projects are shown by fiscal year in which they are anticipated. Commitment budgets are based on total project budgets, which reflect the fully loaded, anticipated costs of a project, including project contingencies but excluding labor. Contingencies are not included when calculating disbursement budgets, however, labor is included.

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HD - Anacostia Pump Station - Field Ops Facility East
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Mar 2011
Construction:	

Project Completion:

Project Description:

The Anacostia site is home to a new pumping station as well as an abandoned pump station. Dating from 1912, the abandoned pump station has accumulated multiple additions since its original construction. These additions lack historical value and will be demolished, both to lessen DC Water’s maintenance burden and create space for a new Water-Sewer Services satellite facility. A new structure will be built because renovated space in the abandoned pump station would not satisfy the requirements of the satellite facility. The following modifications are proposed to assist DC Water in achieving these objectives: (1) Construct a building for a Satellite Facility serving eastern DC; (2) Demolish abandoned pumping station additions; and (3) “Mothball” historically relevant abandoned pump station

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$502,173
FY2017 Approved Lifetime Budget	\$502,173
Total DC Water Allocated Labor	\$5,219
Total Project Cost	\$507,392

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	333	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	502	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: DS - New Headquarters Building ⁴
Managing Department: Office of General Manager
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Apr 2014
Construction:	Mar 2015

Project Completion:	Jan 2020
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Project Description:

This project is for the design and construction of the new DC Water Administration Headquarters building. The plan is for a 135,000 + sq. ft. administrative building to provide sufficient space for current and future administrative needs. The new administrative headquarters will be constructed over the existing "O" Street Pump Station located off 1st Street SE along the Anacostia River. This new building will address the overcrowded existing administrative building located at Blue Plains Waste Water Treatment Plant, and assist in alleviating the increased traffic and parking problems now occurring due to additional staffing, visitors and construction projects. In addition, placing the building off-site would free space for plant operations.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	73.48%	FY2016 Approved Lifetime Budget	\$71,100,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$71,100,000
WSSC -	20.68%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	3.78%	Allocated Labor as of FY 2015	\$13,206
Loudoun/PI -	2.05%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,680	3,385	25,826	12,117	495	166	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	13,110	57,510	0	480	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: DU - Water System Laboratory Facilities
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Sep 2014
Construction:	Jan 2016

Project Completion:	Jul 2017
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Project Description:

This project includes the conversion of available space at Bryant Street Pumping Station to laboratory facilities for the Water Quality Division of the Department of Water Services. Due to the demand in water quality monitoring and the limited space at the Fort Reno facility, the DWS Water Quality Division needs additional laboratory space. The project mainly includes the construction of laboratory benches, fume hoods, and the analytical equipment.

Impact on Operations:

This project will have an annual operating cost for maintenance of the laboratory and cost of utilities.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$646,747
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$646,747
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$4,552
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	297	43	80	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	345	301	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HC - New Warehouse/Visitor/Security Facility ⁴
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Aug 2011
Construction:	Oct 2012

Project Completion:	Aug 2016
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Project Description:

This project is for the construction a new central warehouse at the Blue Plains Treatment Facility. Currently material is stored in several different areas: 2nd Floor of CMF building; Supply Building No. 1; and by Maintenance Service in its various maintenance shops located on the ground level of CMF. By consolidating all material required and classifying same as inventory and storing in one central location, it will free up much needed land area at Blue Plains for planned plant projects; eliminate duplicate inventories and obsolete materials now being stored; provide the ability to tract job cost with material; and assist DC Water in installation of 'best practice' inventory control.

Impact on Operations:

Efficiencies anticipated by these improvements will result in operational savings through re-structured functions and greater equipment availability.

Effective Funding by User (percent):

DC -	41.46%	FY2016 Approved Lifetime Budget	\$18,373,600
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$18,373,600
WSSC -	45.65%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.35%	Allocated Labor as of FY 2015	\$650,171
Loudoun/PI -	4.54%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	17,286	358	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	18,374	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HE - Bryant Street Pump Station Building Mods
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Sep 2016
Construction:	Jun 2018

Project Completion:	Dec 2019
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Project Description:

Bryant Street is composed of multiple properties including the water pumping station, the warehouse, the distribution building, as well as the warehouses and pipe yard at 200 Bryant Street. The sites are variously underutilized and/or in disrepair. This fact, coupled with vast and varied spaces of the facility creates an excellent opportunity to develop a multifunctional facility located centrally in the District. However, there are two critical limitations—any modification or addition must consider the historic nature of the Bryant Street Pump Station as well as the facility’s location adjacent to Howard University and the Washington Metropolitan High School. The following modifications are proposed to assist DC Water in achieving these objectives: (1) Renovate and reorganize first floor of the Pumping Station; (2) Renovate and reorganize spaces to accommodate the following functions: Lab for Water Quality division from Fort Reno, Water and Sewer Investigation and Repair satellite crews serving central DC, and Satellite warehouse facilities and meter storage; (3) Improve HVAC/Energy Design within the pump station (all floors) to include better efficiency and redundancies for emergency situations; (4) Repair roof parking ramp to Warehouse/Meter Services Building; and (5) Evaluate 200 Bryant Street for potential use(s).

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$14,370,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$14,370,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	285	642	931	5,819	835	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	1,840	12,530	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HF - Fort Reno Pump Station - Field Ops Facility West
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Sep 2016
Construction:	May 2021

Project Completion:	May 2022
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Project Description:

The Fort Reno site is a seven acre industrial campus, with a collection of buildings in various states of adaptive reuse, disrepair, and/or abandon, including the historically relevant Watchman’s Tower and House. Thus, while existing conditions pose a maintenance burden, the site itself provides an opportunity to efficiently house the functions as proposed in development of a western DC satellite crew site. Establishment will consist of new construction, renovation, and strategic demolition in concert with the site’s historic character. The following modifications are proposed to assist DC Water in achieving these objectives: (1) Construct a building for a Satellite Office serving western DC; (2) Demolish existing office building; (3) Demolish abandoned pump station; (4) Remove temporary trailer; and (5) “Mothball” abandoned pump house and water tower as well as any structures requiring preservation on site

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$3,150,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,150,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	108	0	0	0	141	474	1,439	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	385	2,765	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HH - New Fleet Management Facility
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Jul 2015
Construction:	May 2016

Project Completion:	Nov 2016
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Project Description:

This project will relocate all Fleet operations from O Street and Maim Pump stations site in order to accommodate the redevelopment plans for the District of Columbia in and around the new baseball stadium, Fleet Services will require a three (3) acre site, and the construction of a new 30,000 square foot vehicle service building. It is anticipated that all costs associated with the construction of this new facility along with any cost associated with site acquisition, will be reimbursed to DC Water by the District of Columbia.

Impact on Operations:

No significant operating cost impact.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,500,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$38,419
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	917	5,129	2,064	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,600	13,900	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HJ - COF Renovations
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Oct 2020
Construction:	Oct 2021

Project Completion:	Oct 2024
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Project Description:

DC Water’s administration functions have outgrown their current home in the COF. Planning and design of new Administrative Headquarters building at the Main and O Street Campus is presently underway. Once complete, administrative functions, unrelated or non-critical to the plant’s functions will move to the new building. And functions that are presently forced to operate from remote or temporary facilities, will be properly housed in a modernized COF. The following modifications are proposed to assist DC Water in achieving these objectives: (1) Demolish IT Building, making space available for additional parking; (2) Renovate (Interior space) office areas to relocate the following programs to the modernized COF: DETS (from the CMF/Nitrification Blower Building), IT (from IT Building), Consultants (from Blue Plains trailers); (3) Renovate Facilities Department’s area; and (4) Add enlarged IT server.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	68.35%
EPA/Fed -	0.00%
WSSC -	24.75%
Fairfax -	4.53%
Loudoun/PI -	2.37%

FY2016 Approved Lifetime Budget	\$8,872,000
FY2017 Approved Lifetime Budget	\$8,872,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	905	3,844	1,495	668	2	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	1,683	6,272	917	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HK - CMF Renovations and Consolidation
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Nov 2020
Construction:	Nov 2021

Project Completion:	Jun 2023
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Project Description:

This project will provide for the renovations and consolidation of the Central Maintenance Facility. The current design of the first floor shop areas and the mezzanine area, which is the location of lockers and kitchens (for each individual shop area), was created at the time the building was constructed and the maintenance workforce was significantly higher than what has been determined is necessary for a plant of this type and size. By consolidating these shops into smaller facilities and eliminating duplicate stored material, DC Water will be able to consolidate other functions (e.g. Facilities department functions) into this building and demolish Supply Buildings No. 1 and 2. In addition, by relocating the lockers and kitchens to the first floor, the mezzanine area can be converted into much-needed office area, that may be used by on-site project management and consulting groups. The current floor of mezzanine will be doubled in size by building out over the part of the shop area below that does not need two stories.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	68.35%	FY2016 Approved Lifetime Budget	\$5,782,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$5,782,000
WSSC -	24.75%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	4.53%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	2.37%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	665	447	305	1,720	980	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	1,750	0	590	3,242	200	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: TK - Biological Nutrient Removal
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Sep 1998
Construction:	Jun 1999

Project Completion:	Jan 2014
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Project Description:

This project funds multiple construction contracts to demonstrate and implement Biological Nutrient Removal. The first contract involved construction of and operations assistance for the Denitrification Demonstration Facility (DDF). The DDF included methanol storage and feed facilities enabling DC Water to conduct a half-plant-scale nitrogen removal pilot study in the Nitrification Facility. The second contract provided the capability for full-scale nitrogen removal. The third contract upgraded the process aeration blowers and reactors to optimize the process, reduce energy consumption and provide reliable operation. The blower upgrade will include rehabilitation of the motors and provision of new blower support systems. The updated blower control system will provide improved control to match blower output with process aeration requirements to reduce energy consumption. This project is needed to implement nitrogen removal and provide reliable treatment systems to maintain the high quality effluent from the Blue Plains AWTP, under a voluntary nitrogen removal program.

Impact on Operations:

The project provides capability to remove nitrogen to meet the goals of the Chesapeake Bay Agreement. Operation of the reactors in the denitrification mode requires the purchase of methanol to provide a carbon source for the denitrification process to w

Effective Funding by User (percent):

DC -	35.15%
EPA/Fed -	6.07%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

	CLOSED
FY2016 Approved Lifetime Budget	\$95,049,884
FY2017 Approved Lifetime Budget	\$95,049,884
Total DC Water Allocated Labor	\$3,352,567
Total Project Cost	\$98,402,451

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
		95,050	0	0	0	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
		95,050	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: A2 - Liquid Processing Program Management
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2024
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Project Description:

Program management services are provided during planning, design, and construction of upgrades to the liquid wastewater treatment process at the Blue Plains AWTP, to ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required because of the comprehensive nature of the upgrades throughout the plant.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	41.40%	FY2016 Approved Lifetime Budget	\$37,468,016
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$31,579,327
WSSC -	45.70%	Lifetime Budget Increase/Decrease	(\$5,888,689)
Fairfax -	8.35%	Allocated Labor as of FY 2015	\$558,633
Loudoun/PI -	4.55%		

	<u>Pre FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Post FY 2025</u>
Disbursements Budget	10,830	1,294	3,370	3,255	1,441	1,929	2,260	1,891	734	655	0	0
Commitments Budget	14,145	7,200	0	5,500	4,734	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BG - Dual Purpose Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Jul 2011
Construction:	Feb 2012

Project Completion:	Oct 2018
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Project Description:

This project replaces the sludge collection equipment, sludge and scum pumps, and other process equipment for the 8 Dual Purpose Sedimentation Basins. To optimize the Enhanced Nitrogen Removal process, this project also entails changes to dedicate 4 basins to nitrogen removal service and 4 basins to secondary treatment service.

Impact on Operations:

The new sludge collection equipment provides improved reliability and increased settling performance but has no significant impact on operational costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$26,344,461
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$27,658,297
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$1,313,836
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$355,626
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	17,511	5,117	776	521	4	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	27,658	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BP - Grit Chamber Facilities Ph II
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Aug 2017
Construction:	Jun 2019

Project Completion:	Dec 2022
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Project Description:

This project will serve to upgrade the East and West grit chamber buildings, structures and facilities including structural, architectural, electrical, building systems, HVAC, and mechanical/process systems and components.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC - 41.22%
 EPA/Fed - 0.00%
 WSSC - 45.84%
 Fairfax - 8.38%
 Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$5,434,000
FY2017 Approved Lifetime Budget	\$5,434,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	126	205	291	338	2,267	1,216	8	1	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	397	430	0	4,608	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BQ - Primary Treatment Facilities Ph II
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Aug 2017
Construction:	Jun 2019

Project Completion:	Dec 2022
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Project Description:

This project provides structural, architectural, HVAC, and electrical repairs to the primary sedimentation tanks, conduits, and head houses.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC - 41.22%
 EPA/Fed - 0.00%
 WSSC - 45.84%
 Fairfax - 8.38%
 Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$14,625,000
FY2017 Approved Lifetime Budget	\$14,625,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	402	592	761	918	6,305	3,439	16	1	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,200	1,120	0	12,305	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BR - Nitrification/Denitrification Fac
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Aug 2007
Construction:	Mar 2009

Project Completion:	Sep 2023
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Project Description:

The concept design report for ongoing Projects TK Biological Nutrient Removal and TQ Nitrification Facility Upgrade provided a comprehensive list of facilities and equipment that needed to be rehabilitated or replaced. The list of scope items was prioritized and the highest priority tasks were included in the Project TK and TQ scope of work for design and construction. Project BR provides for rehabilitating the lower priority tasks and includes major electrical rehabilitation of the entire facility.

Impact on Operations:

Maintenance and energy costs are anticipated to be reduced due to improved efficiency.

Effective Funding by User (percent):

DC -	40.68%	FY2016 Approved Lifetime Budget	\$52,769,094
EPA/Fed -	0.54%	FY2017 Approved Lifetime Budget	\$53,692,771
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$923,677
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$837,321
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	40,095	1,369	2,218	3,321	1,257	328	859	672	242	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	44,698	6,607	0	0	2,387	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BT - Filtration/Disinfection Fac PH II
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2009
Construction:	Apr 2011

Project Completion:	Feb 2020
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Project Description:

This project replaces existing switchgear F1 and F2 and appurtenances, including control panels, transformers, and control panels. Also included in the project are upgrades to Electrical Buildings 10 and 11 and a new electrical building. Reliability of the power service to the Filtration and Disinfection Facility will be improved by implementation of this project.

Impact on Operations:

Energy and operational cost savings will be realized by installation of variable frequency drives.

Effective Funding by User (percent):

DC -	36.59%	FY2016 Approved Lifetime Budget	\$20,888,367
EPA/Fed -	5.30%	FY2017 Approved Lifetime Budget	\$21,966,535
WSSC -	45.32%	Lifetime Budget Increase/Decrease	\$1,078,168
Fairfax -	8.28%	Allocated Labor as of FY 2015	\$649,917
Loudoun/PI -	4.51%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	19,096	269	399	251	36	17	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	21,967	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BV - RWWPS No. 2 Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Nov 2012
Construction:	Jul 2016

Project Completion:	May 2020
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Project Description:

This project will upgrade the aging electrical equipment in the Raw Wastewater Pump Station 2 that has been exposed to hydrogen sulfide gas resulting in accelerated equipment deterioration from corrosion. This project will also replace equipment that is beyond its useful life and will relocate sensitive equipment to a less corrosive environment to maintain the investment in the equipment.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$42,643,519
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$42,687,424
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$43,905
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$125,845
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,306	1,315	11,557	13,720	4,173	96	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,432	37,781	475	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: DA - DWT Research / Pilot Projects
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	May 2016
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Project Description:

This project is to conduct research and pilot work performed by the Department of Wastewater Treatment (DWT) and the Department of Engineering Services (DETS) in an effort to help DC Water, more cost effectively, address pending future regulations for nutrient removal and wet weather treatment.

Impact on Operations:

This project has no impact on current operations or operating budgets but has the potential to minimize additional operating costs resulting from the new processes required at Blue Plains. The research should identify the most appropriate and cost effect

Effective Funding by User (percent):

DC -	43.71%	FY2016 Approved Lifetime Budget	\$4,101,235
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$4,113,535
WSSC -	43.90%	Lifetime Budget Increase/Decrease	\$12,300
Fairfax -	8.03%	Allocated Labor as of FY 2015	\$77,421
Loudoun/PI -	4.37%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,050	41	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,114	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: IX - Headworks HVAC Rehab
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Sep 2016
Construction:	May 2018

Project Completion:	May 2021
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Project Description:

This project provides for modifications to the HVAC components of the Headworks Buildings including: Grit Chamber Building 1, Grit Chamber Building 2, Raw Wastewater Pumping Station 1, Raw Wastewater Pumping Station 2, East Process Screens Facility, Grit and Screenings Loading Station 1, Grit and Screenings Loading Station 2. These modifications include replacement of foul air duct work using materials more suitable for corrosive environments, additional fans and ducts to capture foul air and direct the foul air to the existing odor scrubbers, correct deficiencies in the concept of the existing HVAC system and provide updated air flow diagrams. The required facilities may require the construction of additional odor scrubber capacity.

Impact on Operations:

Reduction of odors and exposure to hydrogen sulfide (H2S) will improve equipment life and greatly improve working conditions for employees.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$15,835,495
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$15,892,279
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$56,784
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$12,198
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	516	3	771	1,398	6,728	3,181	91	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	518	1,174	22	14,179	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: IY - Effluent Filter Upgrade
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Sep 2016
Construction:	Sep 2017

Project Completion:	Oct 2030
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Project Description:

This project will rehabilitate or replace effluent filters. The scope of the project includes filter bottoms, filter media, air-water backwash system and associated appurtenances as well as the control system.

Impact on Operations:

There are no anticipated impacts on operations and maintenance costs.

Effective Funding by User (percent):

DC - 41.22%
 EPA/Fed - 0.00%
 WSSC - 45.84%
 Fairfax - 8.38%
 Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$134,714,000
FY2017 Approved Lifetime Budget	\$142,714,000
Lifetime Budget Increase/Decrease	\$8,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	251	1,925	2,292	993	734	4,633	9,918	5,685	2,500	3,679	70,927
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	7,000	0	0	8,000	20,000	0	0	220	9,892	91	97,511

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: IZ - Replace/Upgrade Influent Screens
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Nov 2025
Construction:	Jul 2028

Project Completion:	Oct 2032
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Project Description:

This project will rehabilitate or replace fine screens for the Blue Plains wastewater influent. The scope of the project includes the fine screening equipment and associated appurtenances as well as the control system.

Impact on Operations:

There are no anticipated impacts on operations and maintenance costs.

Effective Funding by User (percent):

DC -	41.22%
EPA/Fed -	0.00%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

FY2016 Approved Lifetime Budget	\$49,433,000
FY2017 Approved Lifetime Budget	\$49,433,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	164	429	226	0	0	0	0	0	274	5,885	31,157
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,000	0	0	0	0	0	0	0	0	8,771	0	39,662

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: J2 - Replace/Upgrade Primary Treatment Mech.
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Sep 2016

Project Completion:	Feb 2024
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Project Description:

The project will rehabilitate or replace collector mechanisms in the Primary Sedimentation Tanks at Blue Plains. The scope of the project includes the fine collector mechanisms and associated appurtenances as well as the control system.

Impact on Operations:

There will be no significant impact on operations and maintenance.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$2,750,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,750,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$8,000,000
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	68	172	236	824	2,307	3,343	1,714	773	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	400	0	0	8,350	2,000	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: J6 - Deammonification Project
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Mar 2023
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Project Description:

This project entails a large scale demonstration of an ammonia-nitrogen removal process (deammonification/nitrite shunt) and, if that proves successful, also the full scale implementation of that process in the existing tanks at Blue Plains AWTP. The deammonification/nitrite shunt process has potential to achieve significant savings in power and chemicals compared to the present nitrification/denitrification processes used to meet current and future total nitrogen limits. The existing process requires the addition of methanol as a carbon source in the denitrification process but the deammonification/nitrite shunt process would greatly reduce the methanol demand and therefore offer potentially significant operational cost savings. The funding for this project is currently limited to the initial research lab and pilot scale testing phases.

Impact on Operations:

This project is not anticipated to have a significant impact on maintenance or operations costs during the study phase; however, deammonification could lead to significant operational savings by reducing the need for methanol or another more costly carbon

Effective Funding by User (percent):

DC -	41.22%
EPA/Fed -	0.00%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

FY2016 Approved Lifetime Budget	\$1,493,000
FY2017 Approved Lifetime Budget	\$1,493,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$3,371

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	153	37	0	0	564	346	86	74	16	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	230	0	0	0	1,263	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: LC - Effluent Disinfection Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Sep 2024
Construction:	Sep 2026

Project Completion:	Mar 2029
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Project Description:

This project involves construction of revised and improved disinfection process equipment based upon industry experience since the last time that the chemical feed systems for disinfection were installed in 2004.

Impact on Operations:

Without this upgrade in place by 2025, operations will have increasing difficulties in meeting regulatory requirements for disinfection.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$8,011,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,011,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	289	358	0	0	0	5	274	4,957
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	660	110	0	0	0	0	520	0	6,721

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: OZ - Grit Chambers 1 & 2 Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Feb 2016

Project Completion:	Sep 2019
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Project Description:

This project will provide funding for short and long term improvements to Grit Chambers 1 and 2 to address immediate safety needs of the facilities, support currently funded capital projects, support the continuation of work previously initiated and completed through the High Priority Program, and accommodate future process “tune ups” and capital improvements in order to maintain operational efficiency and performance.

Impact on Operations:

The potential for diminished maintenance of the grit chamber facilities could directly affect operational performance which, in an extreme case could result in the potential for non-compliance with NPDES Permit requirements and limits.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$11,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$11,000,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	4,069	504	1,846	2,189	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	6,000	5,000	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: PD - Secondary East & West Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	May 2023
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Project Description:

This project will provide funding for short and longer term improvements for the Secondary Reactors/Sedimentation Basin Upgrades to reduce chemical costs, and accommodate future process “tune ups” and capital improvements in order to maintain operational efficiency and performance. Projects are also included to provide for more cost effective means for alkalinity addition and pH adjustment than are currently practiced as well as providing a safer alternative for this chemical addition.

Impact on Operations:

Changes to the chemical feed systems should result in both safer and more cost effective means to provide for both alkalinity addition and pH control.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$8,200,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,200,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	447	0	0	0	1	2,027	3,508	1,153	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	600	0	0	0	0	7,000	600	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: PE - Nitrification Reactor/Sediment Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2022
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Project Description:

This project will provide funding for the short term improvements Nitrification Reactors/Sedimentation Basin Upgrades to address immediate process control and safety needs of the facilities, maintain the integrity of concrete structures, and accommodate future process “tune ups” and capital improvements in order to maintain operational efficiency and performance.

Impact on Operations:

Implementation of this project will return/maintain the system to fully operable condition, which will allow improved process control and reduced energy consumption.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$6,750,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,750,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	57	244	1,030	678	1,401	1,665	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	750	2,000	0	4,000	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: TF - Grit Chamber Bldg 1&2
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Jul 1998
Construction:	Jan 2003

Project Completion:	May 2016
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Project Description:

This project provides new grit removal systems consisting of traveling bridges and pumps to remove grit from the grit chambers in Grit Chamber Buildings 1 and 2. Project includes conveyance and loading systems to load the grit into transport trailers for offsite disposal. Odor Control Systems for both East and West Facilities are provided. This project is needed to replace aged equipment and upgrade process technology to improve treatment and restore integrity and reliability to the facilities.

Impact on Operations:

This project eliminates the current contract for vacuum truck cleaning of the screens and grit chambers, however, this savings is essentially offset by the cost of hauling an increased quantity of screenings and grit produced by the more efficient equipment.

Effective Funding by User (percent):

DC -	15.11%	FY2016 Approved Lifetime Budget	\$70,886,008
EPA/Fed -	26.21%	FY2017 Approved Lifetime Budget	\$71,045,902
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$159,894
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$2,205,563
Loudoun/PI -	4.46%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	70,810	156	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	71,046	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: TO - Secondary Treatment Fac
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Aug 1999
Construction:	Feb 2002

Project Completion:	Oct 2015
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Project Description:

Project TO rebuilds the concrete sedimentation basin structures in the West Process Secondary Sedimentation Basins 1-12 to replace deteriorated concrete, railings, gratings and weirs. New sludge and scum collection equipment is provided in all twenty four East and West secondary sedimentation basins. Project also rehabilitates the process aeration blowers and motors and provides new blower support systems. This project upgrades process technology to improve treatment efficiency and increase integrity and reliability of the facilities.

Impact on Operations:

This project, in conjunction with PCCS, automates sludge and scum pumping which reduces labor for monitoring and control and eliminates the need for contractors to periodically pump scum from the basins. The project upgrades the process aeration blowers

Effective Funding by User (percent):

DC -	30.30%	FY2016 Approved Lifetime Budget	\$70,603,223
EPA/Fed -	10.98%	FY2017 Approved Lifetime Budget	\$70,603,223
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$2,616,286
Loudoun/PI -	4.50%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	70,602	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	70,603	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: UC - Filtration/Disinfection Fac
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Aug 2002
Construction:	Mar 2004

Project Completion:	Feb 2021
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Project Description:

This project upgrades the Filtration and Disinfection Facility at the Blue Plains AWTP. The project upgrades the filter influent pumps, converts the filters to an air-water wash type backwash system, which eliminates the surface wash system. Projects provide new underdrains, filter media, process aeration blowers and piping, and the instruments and controls to automatically backwash filters, using the PCCS. This project upgrades process technology to improve treatment and increase reliability of the facilities.

Impact on Operations:

There are no anticipated impacts on operations and maintenance costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$99,309,602
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$99,485,160
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$175,558
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$2,506,146
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	63,935	1,135	814	5,373	18,050	3,246	17	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	66,037	616	297	21,266	11,269	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: UD - Raw Water Pump Stations I&2
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	May 2001
Construction:	Apr 2007

Project Completion:	Sep 2018
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Project Description:

This project rehabilitates the pumps, motors, and drives in Raw Wastewater Pump Station I and replaces the smallest pump with a larger 80 mgd pump. The project also repairs or replaces the pump discharge conduits and provides new pump controls and pump support systems. This project rehabilitates the pumping equipment to ensure reliability of this facility.

Impact on Operations:

Project provides the capability to automate influent pumping which reduces labor required to monitor and control influent raw wastewater pumping.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$15,806,485
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,245,380
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$438,895
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$844,407
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	15,791	1	186	186	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	15,801	444	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: AL - Plantwide Project Program Management
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2023
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Project Description:

Program management services are required for planning, design, and construction of new or upgraded plantwide systems at the Blue Plains AWTP to ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required because of the comprehensive nature of the upgrades throughout the plant.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	41.43%	FY2016 Approved Lifetime Budget	\$37,016,156
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$35,801,966
WSSC -	45.68%	Lifetime Budget Increase/Decrease	(\$1,214,190)
Fairfax -	8.35%	Allocated Labor as of FY 2015	\$218,557
Loudoun/PI -	4.54%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,821	1,746	1,991	557	1,363	6,811	4,087	2,196	710	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	10,472	5,400	0	6,100	4,550	9,280	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: AZ - COF Renovations
Managing Department: Facilities Management
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2011
Construction:	Apr 2013

Project Completion:	Sep 2018
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Project Description:

This project provides for the renovation of the Central Operations Facility and will improve the functionality and appearance of the building. Project includes budget for renovation of office spaces used by the Authority's personnel, COF Windows replacement, HVAC upgrades and Landscaping, among others.

Impact on Operations:

This project has no material impact on the operating budget.

Effective Funding by User (percent):

DC -	71.23%	FY2016 Approved Lifetime Budget	\$17,542,611
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,690,206
WSSC -	22.50%	Lifetime Budget Increase/Decrease	\$147,595
Fairfax -	4.12%	Allocated Labor as of FY 2015	\$623,574
Loudoun/PI -	2.16%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	15,919	157	510	486	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	16,272	1,418	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: BY - Additional Chemical Systems PH III
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jun 2022
Construction:	Sep 2024

Project Completion:	Jun 2028
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Project Description:

This project will provide additional chemical feed lines and application points for process needs such as polymer distribution in the grit chambers, polymer for spent wash water treatment, chemicals for wet weather flow treatment, and chemicals for solids recycle side stream treatment, as appropriate for each project.

Impact on Operations:

This project will increase operations and maintenance costs of the chemical feed pumps and systems.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$3,821,638
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,821,638
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	25	170	57	808	1,803
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	315	0	3,507	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: CH - Misc Facility Projects
Managing Department: Facilities Management
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2018
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Project Description:

This will rehabilitate and upgrade various facilities throughout the Wastewater Treatment Plant. Upgrades to portions of the Central Maintenance Facility, trailers for consultant office space, as well as upgrades to support security and site management are included in this project.

Impact on Operations:

This funding will help minimize out of service time for facility related repairs and keep critical safety provisions in order.

Effective Funding by User (percent):

DC -	63.15%	FY2016 Approved Lifetime Budget	\$7,884,522
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,037,490
WSSC -	28.78%	Lifetime Budget Increase/Decrease	\$152,968
Fairfax -	5.26%	Allocated Labor as of FY 2015	\$80,393
Loudoun/PI -	2.81%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,312	142	100	75	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,726	312	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: CV - Laboratory Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Health Safety

Phase	Start Date
Design:	Sep 2007
Construction:	Sep 2010

Project Completion:	Sep 2017
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Project Description:

This project will renovate the central laboratory building located at Blue Plains. This building was constructed around 1935 and was last renovated in the early 1980s. The project will refurbish the building interior, including floors, walls, and ceilings and replace laboratory benches, fume hoods, and the analytical equipment. This project would also abate the asbestos contained in the older building materials.

Impact on Operations:

There is no direct impact on the operating budget as a result of this project. However, upgrading of the laboratory, including repairs to doors and windows, upgrade of the heating, ventilation, and air conditioning systems will provide for energy savings

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$8,509,591
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,509,591
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$181,313
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,700	52	29	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,469	40	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: CW - Security at Blue Plains
Managing Department: Security
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Sep 2013

Project Completion:	Jan 2021
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Project Description:

The Blue Plains Internal and External Security (formerly named Blue Plains Perimeter Security) provides a series of security upgrades for the Advanced Wastewater Treatment Plant at Blue Plains. These upgrades will improve security around the perimeter and throughout the plant, including increased security surveillance to oversee any delinquent activity inside and outside critical facilities at Blue Plains.

Impact on Operations:

This project will have no material impact on the operating budget, however minor operating costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$8,716,761
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,716,761
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,053	654	369	1,676	1,692	650	98	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,617	500	0	5,600	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: DP - Chemical Building Enhancements
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Health Safety

Phase	Start Date
Design:	Aug 2008
Construction:	Sep 2011

Project Completion:	Sep 2018
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Project Description:

This project is to enhance operability, safety, and housekeeping in the various chemical buildings throughout Blue Plains and extend the life expectancy of various elements of the chemical systems.

Impact on Operations:

This project will help avoid future impacts on the operating budget through extended life expectancy of chemical systems.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$1,891,145
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$1,891,145
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$24,572
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,591	0	108	105	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,591	300	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: DQ - Non-OEM PLC Interfaces/Replacements
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2016
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Project Description:

This project is to interface the non-OEM Programmable Logic Controllers (PLCs) across the plant with the Ovation control software within the PCCS. A number of PLCs were installed to provide monitoring and control of various plant systems prior to the availability of the PCCS. There are other PLCs in the system that have been supplied with process equipment by the Original Equipment Manufacturer (OEM) to control and safe-guard specific pieces of equipment, such as the influent screens, traveling grit bridges and centrifuges. This project is to provide the non-OEM PLCs across the plant the capability, with proper interfaces, to communicate with the Ovation control software within the PCCS.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$2,132,604
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,132,604
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$42,825
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,831	174	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,133	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: EI - Plantwide Painting of Steel Pipes
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Oct 2019

Project Completion:	Oct 2022
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Project Description:

This project entails painting the steel piping throughout the Advanced Wastewater Treatment Plant at Blue Plains. The steel pipes at Blue Plains exist in a corrosive environment and require painting to protect them from corrosion. The extent of piping, especially large diameter pipes, throughout the plant is beyond the scope of typical maintenance.

Impact on Operations:

This project will prevent unforeseen repair / replacement costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$4,960,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$4,960,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$557
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	60	0	0	0	0	1,264	1,327	1,391	16	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	80	0	0	0	0	4,880	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: EN - WWTP - Central Fire Alarm System
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Health Safety

Phase	Start Date
Design:	
Construction:	Aug 2010

Project Completion:	Jun 2016
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Project Description:

This project entails the construction of a central fire alarm system to deliver signals from fire alarm systems throughout the Blue Plains plant to one central location. Fire alarms throughout Blue Plains sound at the building in which a fire is detected. Installation of a central fire alarm system will deliver the local fire alarms to a location at which there is coverage 24 hours per day. Therefore, a more timely call to the fire department will result in prevention of potential damage to buildings, critical infrastructure and equipment and most importantly, improve the health and safety of employees and others on-site at Blue Plains.

Impact on Operations:

This project will have no impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$3,032,083
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,091,609
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$59,526
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$54,832
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,018	34	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,092	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: GP - I & C & Elec - EPMC
Managing Department: Engineering and Technical Services
EPMC: Process Control System Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Jan 2019
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Project Description:

Professional services related to Instrumentation and Control (I&C) support and programming for new and upgraded facilities throughout Blue Plains. Specific tasks would include verifying that the designs are meeting DC Water standards for I&C and Electrical work, QA/QC of the designs for I&C and Electrical and review of I&C and Electrical shop drawings. This work is needed to ensure that the project is properly coordinated with DC Water standards for I&C and Electrical.

Impact on Operations:

There will be no significant impacts on operational costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$9,131,115
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$7,226,286
WSSC -	45.84%	Lifetime Budget Increase/Decrease	(\$1,904,829)
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$609,191
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,198	1,145	1,193	931	206	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,518	4,708	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: GW - Control Systems Replacement
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Mar 2022
Construction:	Sep 2023

Project Completion:	May 2026
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Project Description:

This project will include concept design, detailed design, and installation of a system or components of the existing plant Process Control System (PCS) as the PCS reaches the end of its useful life.

Impact on Operations:

There will be significant impact on operating and maintenance budgets.

Effective Funding by User (percent):

DC - 41.22%
 EPA/Fed - 0.00%
 WSSC - 45.84%
 Fairfax - 8.38%
 Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$37,000,000
FY2017 Approved Lifetime Budget	\$37,000,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	746	622	835	13,739	13,971	316
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	1,000	1,700	34,300	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: HL - DWT - Process and Operations Jobs
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Sep 2011

Project Completion:	Sep 2021
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Project Description:

This project will upgrade or rehabilitate facilities and equipment through out the AWTP at Blue Plains. Examples of work to be performed, but not limited to, are upgrades to grit and screens, process service water, asbestos removal that was based on safety survey, HVAC improvements throughout the Plant.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$7,106,447
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$7,106,447
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$52,725
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,096	958	657	442	224	230	1,065	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,231	675	300	300	300	1,300	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: HU - Blue Plains Logistics
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Sep 2012

Project Completion:	Sep 2018
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Project Description:

This project is comprised of activities designed to facilitate the movement of resources into, through, and out of Blue Plains, which is a particular challenge during due to several simultaneous construction projects, i.e. Enhanced Nitrogen Removal Facilities (ENRF), New Digestion Facilities and the Blue Plains Tunnel.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$6,258,212
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,839,167
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$580,955
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$141,291
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,946	543	120	144	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,561	278	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: IC - Electrical Monitoring Systems
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jun 2018
Construction:	Jul 2019

Project Completion:	Jul 2021
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Project Description:

This project includes monitoring systems associated with electrical power distribution at the Advanced Wastewater Treatment Plain at Blue Plains. The activities that will be identified in this project will increase DC Water’s ability to monitor, track and assess power usage throughout the AWTP at Blue Plains. This enhanced ability will protect and enhance the current and future investment in electrical power infrastructure.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$7,250,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$7,250,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$938
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	23	181	0	140	963	2,631	1,199	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	350	0	0	800	6,100	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: IV - Blue Plains IT Backbone FOC Tubes
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Sep 2018
Construction:	Sep 2019

Project Completion:	Sep 2020
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Project Description:

This project includes a condition survey of existing Blue Plains' duct-bank and gallery cable usage and installation of a new Blown Fiber system throughout the Blue Plains campus to upgrade the IT enterprise fiber network with the latest in-ground infrastructure for fiber-optic/data installation.

Impact on Operations:

The impact on operations will be moderate. Equipment automation, enterprise database, etc. will require increased bandwidth capability; therefore, a Blown Fiber Infrastructure can promptly respond to any unforeseen communication needs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$3,775,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,775,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	584	59	0	374	1,556	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,000	0	575	2,200	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: JF - Construction of Flood Seawall
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Jun 2020
Construction:	Nov 2021

Project Completion:	Dec 2025
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Project Description:

The project is construction of a wall to prevent flooding of the Advanced Wastewater Treatment Plant at Blue Plains from the Potomac River. The flood wall will be constructed to protect the AWTP from being inundated in a flood event up to a 500-year flood elevation with 3 feet of freeboard.

Impact on Operations:

There will be no significant impact on operation or maintenance budgets.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$13,234,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$13,234,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	67	0	213	876	3,281	5,436	895	12	1
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	110	0	1,213	368	11,543	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: JY - IT - Data Center
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	May 2011
Construction:	Apr 2013

Project Completion:	Sep 2018
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Project Description:

This project upgrades and expands the existing Data Center located on the third floor of the Central Operations Facility. The Data Center needs to be expanded and upgraded to increase the facility's capacity, and maximize overall reliability and efficiency. Upgrades to the Data Center infrastructure are also needed to provide redundancy in HVAC equipment and mechanical systems, the electrical power distribution system, fire suppression system, and uninterruptible power supply (UPS) units. The objective in providing redundancy for these critical systems is to eliminate a single point of failure.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	68.35%	FY2016 Approved Lifetime Budget	\$3,348,157
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,421,954
WSSC -	24.75%	Lifetime Budget Increase/Decrease	\$73,797
Fairfax -	4.53%	Allocated Labor as of FY 2015	\$38,874
Loudoun/PI -	2.37%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,281	50	352	333	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,427	995	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: LP - Wastewater Asset Mngmt Tech Support ⁵
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Oct 2020
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Project Description:

This project is to implement a comprehensive Asset Management program for Wastewater and Maintenance operations at Blue Plains. The program consists of a variety of elements, including but not limited to technology and data, maintenance and work management, reliability and condition assessment and asset life cycle management activities. Asset Management implementation is expected to take place over a five year period.

Impact on Operations:

Additional operating/maintenance costs will be required, but greater savings through improved asset life cycle costing is anticipated.

Effective Funding by User (percent):

DC -	66.33%	FY2016 Approved Lifetime Budget	\$10,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,000,000
WSSC -	25.93%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	5.06%	Allocated Labor as of FY 2015	\$127,434
Loudoun/PI -	2.68%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,995	1,717	2,031	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,533	5,467	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: LS - Misc. Facilities Projects FY2013
Managing Department: Facilities Management
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Dec 2020
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Project Description:

This project provides for a program of planned projects by the Department of Facilities Management for the rehabilitation, upgrade and improvement of various facilities and buildings at Blue Plains.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	58.13%	FY2016 Approved Lifetime Budget	\$6,239,950
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$7,138,346
WSSC -	32.70%	Lifetime Budget Increase/Decrease	\$898,396
Fairfax -	5.98%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	3.20%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,273	960	1,690	779	223	312	82	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,411	2,927	0	0	800	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: LX - Process Control System Upgrade
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Oct 2017
Construction:	Oct 2020

Project Completion:	Oct 2022
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Project Description:

This project addresses short-term and longer term needs of the Process Control System (PCS) for the Advanced Wastewater Treatment Plant at Blue Plains. Specifically, it includes upgrades to the system as well as development of a master plan.

Impact on Operations:

There will be no significant impact on operating or maintenance budgets.

Effective Funding by User (percent):

DC - 41.22%
 EPA/Fed - 0.00%
 WSSC - 45.84%
 Fairfax - 8.38%
 Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$4,000,000
FY2017 Approved Lifetime Budget	\$4,000,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	264	0	0	1,512	1,526	2	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	375	0	0	3,625	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OD - Plantwide Paving
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Dec 2020
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Project Description:

This project will provide for paving and roadway repair at Blue Plains for areas that are not covered by other construction projects.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$8,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,000,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$19,727
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	404	51	360	351	838	3,216	1,021	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	500	1,000	0	0	1,500	5,000	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OE - Plantwide Drainage & Runoff
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Dec 2020
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Project Description:

This project will be to provide for drainage improvements and rehabilitation/replacement of existing storm water pumping stations at Blue Plains.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$6,146,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,146,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	16	1,130	1,215	688	884	306	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	4,146	500	0	0	1,500	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OF - Process & Service Water Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Feb 2022
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Project Description:

This project includes various improvements/rehabilitation of the plant service water system (PSW). The project includes replacement of PSW valves, evaluation of the PSW piping system, and replacement of piping as appropriate.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC - 41.22%
EPA/Fed - 0.00%
WSSC - 45.84%
Fairfax - 8.38%
Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$3,950,000
FY2017 Approved Lifetime Budget	\$3,950,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	557	2,120	513	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	3,950	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OG - City Water & Sewer Upgrades at WWTP
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2022
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Project Description:

This project includes improvements/rehabilitation city water and city service water systems. Primarily it involves elimination of many of the backflow preventers located throughout the Plant and installation of break tanks to provide seal water.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC - 41.22%
EPA/Fed - 0.00%
WSSC - 45.84%
Fairfax - 8.38%
Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$1,250,000
FY2017 Approved Lifetime Budget	\$1,250,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	1	523	524	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	1,250	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OH - Plantwide Demolition
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Jan 2024
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Project Description:

This project includes the demolition of various systems that are no longer in service. These facilities have been taken out of service due to the various ongoing construction activities, but not demolished as part of those activities. The project is proposed as a multi-year program.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%
EPA/Fed -	0.00%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

FY2016 Approved Lifetime Budget	\$11,100,000
FY2017 Approved Lifetime Budget	\$11,100,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	2,364	4,587	1,970	588	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	11,100	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OI - Plantwide Painting & Signage
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Dec 2021
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Project Description:

This project is a multi-year project to provide painting and signage within buildings and galleries, primarily for safety purposes.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC - 41.22%
EPA/Fed - 0.00%
WSSC - 45.84%
Fairfax - 8.38%
Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$450,000
FY2017 Approved Lifetime Budget	\$450,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	90	232	43	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	450	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OK - Plantwide H2S Mitigation
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	

Project Completion:	Nov 2025
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Project Description:

This project will be to provide for implementation of projects to provide for protection of equipment subject to damage by the effects of hydrogen sulfide. Projects may include HVAC improvements, odor control improvements and/or relocation of equipment to lesser impacted areas.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$10,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,000,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	271	722	1,356	1,845	1,571	881	904	116
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	10,000	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: ON - Plantwide Grounding Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Mar 2021
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Project Description:

This project will evaluate the various grounding systems located throughout the Blue Plains AWTP and provide for repairs or replacement where necessary.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$5,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$5,500,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	559	1,942	1,429	219	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	3,500	2,000	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OP - Plantwide Sump Pump Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function
Project Description:
 This project is a multi-year project to rehabilitate and replace failing sump pumps in various places around the plant.
Impact on Operations:
 This project will have no material impact on the operating budget.

Phase	Start Date
Design:	
Construction:	

Project Completion:	Oct 2019
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Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$2,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,500,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	364	900	527	7	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	2,500	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OQ - Plantwide Roofing Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2025
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Project Description:

This project will provide for immediate roof rehabilitation where damage to roofing systems has been observed and documented as well as for planned roof replacement where roofing systems have reached the end of their 20-year expected life.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$9,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,500,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	301	1,151	1,847	2,704	1,454	797	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	1,500	8,000	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OY - Blue Plains Safety
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Health Safety
Project Description:
 This project will provide funding for safety related improvements.
Impact on Operations:
 This project will have no material impact on the operating budget.

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2024
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Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$350,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$350,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

	<u>Pre FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Post FY 2025</u>
Disbursements Budget	0	32	72	0	0	0	41	43	44	45	0	0
Commitments Budget	0	100	50	0	0	0	50	50	50	50	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: PF - Chemical System/Building Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Oct 2022
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Project Description:

This project will evaluate needs, determine condition of existing chemical unloading and feed systems, and perform the necessary upgrades/rehabilitation to the existing Metal salts, sodium hypochlorite, and sodium bisulfate tanks and feed systems.

Impact on Operations:

Failure of any one of the systems would have similar impacts. Along with the health and safety impacts the failure of the sodium hypochlorite could result in insufficient disinfection, failure of the sodium bisulfate system could result in insufficient d

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$22,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$22,500,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$1,925
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	48	1,054	2,310	1,776	2,786	3,446	2,517	1,553	45	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,510	490	5,000	0	3,000	4,500	3,000	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: TA - Process Computer Control System
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Sep 1998
Construction:	Aug 2002

Project Completion:	Oct 2016
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Project Description:

The Process Computer Control System provides monitoring and control for the Raw Wastewater Pumping Stations, Grit and Screen Facilities, Primary and Secondary Treatment Facilities, additional Chemical Systems, alternate Disinfection System, additional Dewatering Systems, Nitrification, Filtration and Disinfection Facilities, and Gravity Thickening in the first two phases of a plant-wide system. The PCCS provides monitoring and control of key process functions such as aeration, sludge pumping, and chemical feed dosing. Monitoring of energy usage is provided. This project improves treatment, control, optimizes chemical and power costs and increase reliability of the facilities.

Impact on Operations:

The new Process Control Computer System (PCCS) assists in optimizing labor, chemical and electricity costs. The system monitors power usage and permits discretionary operation of non-critical equipment during off-peak hours. Dissolved oxygen (DO) c

Effective Funding by User (percent):

DC - 41.36%
 EPA/Fed - 0.00%
 WSSC - 45.73%
 Fairfax - 8.36%
 Loudoun/PI - 4.55%

FY2016 Approved Lifetime Budget	\$65,175,056
FY2017 Approved Lifetime Budget	\$65,281,159
Lifetime Budget Increase/Decrease	\$106,103
Allocated Labor as of FY 2015	\$2,162,390

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	63,617	690	0	0	0	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	65,086	195	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: TZ - Elec Power System - Switch Gear
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	Mar 2003

Project Completion:	Mar 2024
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Project Description:

This project replaces switchgear and transformers throughout Blue Plains as they reach the end of their useful lives. This project is needed to update the electrical equipment and ensure reliability of the plant processes.

Impact on Operations:

Project has no material impact on operations costs.

Effective Funding by User (percent):

DC -	40.83%	FY2016 Approved Lifetime Budget	\$58,863,870
EPA/Fed -	0.39%	FY2017 Approved Lifetime Budget	\$59,399,213
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$535,343
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$343,203
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,816	2,843	300	416	3,956	8,261	1,557	5,667	13,335	2,386	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	11,787	2,127	2,070	148	16,925	0	213	26,129	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: YD - Miscellaneous Projects
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	May 2011
Construction:	Jul 2011

Project Completion:	Sep 2023
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Project Description:

This project includes the study, design, and construction of miscellaneous improvements to the Blue Plains AWTP that are not included in major capital projects. Examples of such improvements include general site, roadways, truck access, process upgrades, re-roofing of the Central Maintenance Facility, and a plant-wide odor study to identify, characterize and control on-site plant odors. This project is needed to improve conditions for plant workers, neighbors, and haulers as well as improve treatment. This also includes the high priority rehabilitation program which is used to repair and replace equipment to keep systems operational until the long term upgrade projects are completed.

Impact on Operations:

Project has no material impact on operating costs.

Effective Funding by User (percent):

DC -	38.40%	FY2016 Approved Lifetime Budget	\$51,840,054
EPA/Fed -	3.45%	FY2017 Approved Lifetime Budget	\$52,066,820
WSSC -	45.36%	Lifetime Budget Increase/Decrease	\$226,766
Fairfax -	8.29%	Allocated Labor as of FY 2015	\$1,167,788
Loudoun/PI -	4.50%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	39,367	1,817	468	1,012	2,178	1,494	1,050	560	333	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	42,914	1,116	1,976	4,200	1,011	850	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: B9 - Large Motor Starting Migration
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Aug 2017
Construction:	Dec 2018

Project Completion:	Dec 2020
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Project Description:

The purpose of this project is to evaluate all plant motors 1500 horsepower (HP) and larger in an effort to determine the impacts that these motors have to the plant's electrical system. This evaluation will include the effects on equipment stability with an emphasis on the combined heat and power system (CHP). The evaluation will result in the selection of recommended mitigation measures for improving equipment stability and the implementation of those selected mitigation measures through construction.

Impact on Operations:

This project will allow large motors to start without labor intensive assistance from DMS or CHP Operators.

Effective Funding by User (percent):

DC -	41.22%
EPA/Fed -	0.00%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$8,000,000
Lifetime Budget Increase/Decrease	\$8,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	16	155	466	3,048	1,893	33	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	200	656	132	7,012	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OM - Plantwide Hot Water System/ Loop Rehab
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Dec 2019
Construction:	Nov 2021

Project Completion:	Jan 2025
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Project Description:

This project will provide hot water for the purpose of equipment cleaning and maintenance as well as building heat. Systems will be constructed at the East and West Grit and Screenings Facilities for the purpose of cleaning grease and debris from the screens, compactors, and other equipment on a daily basis. An evaluation will be made regarding the feasibility of installing one or more chilled water loops or repurposing existing process water lines to supply building cooling. The concept will involve / evaluate hot and chilled water production in a centralized location with appropriate storage capacity. The available excess steam from CHP will also be evaluated. Recommendations deemed acceptable will be implemented through construction

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%
EPA/Fed -	0.00%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$25,770,000
Lifetime Budget Increase/Decrease	\$25,770,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	182	1,836	2,680	753	631	565	2,336	7,763	4,476	145	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	3,100	4,550	0	0	1,500	0	16,620	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OS - Plantwide Lighting Upgrades
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Feb 2019
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Project Description:

This project will serve to expand and continue the program of plantwide lighting improvements through the replacement of older roadway fixtures located on Perimeter Roads North, South, and West with more efficient fixtures that match newer fixtures in other areas of the plant. As part of this project, aging cable and conduit will also be replaced thereby providing an up to date energy efficient lighting system for the roadways along the perimeter of the plant.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%
EPA/Fed -	0.00%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$3,000,000
Lifetime Budget Increase/Decrease	\$3,000,000
Allocated Labor as of FY 2015	\$0

	<u>Pre FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Post FY 2025</u>
Disbursements Budget	0	0	1	1,639	502	0	0	0	0	0	0	0
Commitments Budget	0	0	3,000	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: AM - Solids Processing Program Management
Managing Department: Engineering and Technical Services
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

This project provides program management services during planning, design and construction of biosolids process upgrades at the Blue Plains AWTP. These projects will ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required because of the comprehensive nature of the upgrades throughout the plant.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	41.63%	FY2016 Approved Lifetime Budget	\$17,460,585
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,062,724
WSSC -	45.52%	Lifetime Budget Increase/Decrease	(\$1,397,861)
Fairfax -	8.32%	Allocated Labor as of FY 2015	\$1,127,538
Loudoun/PI -	4.53%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,893	1,122	1,621	1,041	216	1,054	1,631	1,089	505	778	507	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,349	2,364	0	0	0	4,350	0	0	2,000	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: BX - Gravity Thickener Upgrades Ph II
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Feb 2011
Construction:	Mar 2017

Project Completion:	Sep 2021
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Project Description:

The objective of this project is to design and construct the improvements needed to rehabilitate and upgrade the Primary Sludge Screening & Degritting Building (PSSDB) and the Gravity Thickeners (GT) at the Blue Plains Advanced Wastewater Treatment Plant (AWTP). The project will rehabilitate Gravity Thickeners 5&6 and replace equipment in Gravity Thickeners 7 - 10.

Impact on Operations:

This project will add facilities requiring operations and maintenance.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$31,539,507
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$34,487,944
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$2,948,437
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$70,804
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,969	1,004	1,140	4,855	8,662	5,255	2,774	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,585	656	28,246	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: EV - Area Substation No. 6
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	Apr 2010

Project Completion:	Sep 2019
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Project Description:

This project replaces the 5 KV switchgear, Area Substation No. 4, at the south end of the Blue Plains AWTP, which services the Filtration & Disinfection Facility and Dual Purpose Sedimentation Basins with the proposed new Area Substation No. 6. This project is needed to replace obsolete electrical equipment and ensure reliability of these critical plant processes.

Impact on Operations:

This project will eliminate repeated shut-downs, resulting in savings in operating costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$21,983,480
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$22,073,974
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$90,494
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$463,740
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	20,029	135	0	344	412	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	21,153	0	921	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: I2 - Biosolids Loadout Crane Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Oct 2013

Project Completion:	Sep 2016
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Project Description:

The biosolids load-out facility uses 4 overhead-rail cranes with clamshells to transfer biosolids from the 4 bunkers to the trucks that haul biosolids for land application. These cranes need major mechanical and electrical rehabilitation. Some of the items requiring attention comprise the festoon system, hoist and grab motors, load cells, control panels, cab controls and cab air conditioning.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$4,050,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$4,295,991
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$245,991
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$74,898
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,596	55	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,296	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: I3 - Biosolids Blending Development Center
Managing Department: Engineering and Technical Services
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Sep 2015
Construction:	Jan 2016

Project Completion:	Apr 2016
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Project Description:

This project, which includes a soil mixer, a concrete pad mixing area, a covered 4 bin material storage area, a covered 4 bin blended material area, and a greenhouse, will provide a facility to blend Class A biosolids with other products such as sawdust or compost to make a commercial soil amendment product. Various blends of mixed material will be used to grow plants in the greenhouse to determine the ideal blend as a soil amendment. Staff will determine the economics of different product production, so that larger commercial-scale operations can be implemented off-site.

Impact on Operations:

There would be no impact on Plant operations from implementing this project. However, there could be a beneficial impact on Plant operating costs through reduction in long-distance hauling of biosolids.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$700,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$700,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$343
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	9	483	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	128	572	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: 16 - Combined Heat & Power - Backup Power
Managing Department: Engineering and Technical Services
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Oct 2019
Construction:	Feb 2021

Project Completion:	Oct 2023
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Project Description:

This project is intended to be the first part of a comprehensive project that will provide the plant with the ability to seamlessly transfer power from the Biosolids Facility CHP system to critical treatment plant equipment in the event of a Plant power failure. The option to break the project into two smaller projects allows the staff to have a quicker response time after the first project is complete by automating certain key components for power restoration to the backup power supply from the CHP. This first project will not provide a fully seamless load management system but will assist in the shedding of major loads to allow staff to bring the plant back online in a more manageable fashion.

Impact on Operations:

The project will result in no increase to operations costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$1,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$1,500,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	120	204	660	335	2	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	150	1,350	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: LD - Pre-Dewatering Additional Centrifuges
Managing Department: Engineering and Technical Services
EPMC: Biosolids Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	May 2019
Construction:	May 2020

Project Completion:	Jan 2022
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Project Description:

This project will provide two additional centrifuges and associated feed pumps, polymer pumps, solids chutes and odor control connections at the Main Process Train (MPT) pre-dewatering building. Space for the two additional centrifuges is available in the pre-dewatering building, which has 10 centrifuges that were installed under the Main Process Train project completed in 2015.

Impact on Operations:

The additional equipment would require additional maintenance but no new operators.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$9,170,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,170,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	118	1,153	5,756	177	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	200	8,970	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: LE - High Strength Waste Receiving Facility
Managing Department: Engineering and Technical Services
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	May 2019
Construction:	Jun 2020

Project Completion:	Feb 2022
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Project Description:

Local, readily available high strength liquid wastes produced by industrial processing plants for food, beverages and pharmaceuticals among others, have been proven to enhance digester gas production. This project will provide a high strength waste receiving/processing facility on-site at Blue Plains. The facility would include 5 receiving tanks, freeze protection as well as pumps to transfer the pre screened liquid waste to either the Cambi thermal hydrolysis process or directly to the anaerobic digesters. Odor control would also be provided. These high strength wastes will be delivered by tanker trucks from the local area industries to the receiving facility at Blue Plains.

Impact on Operations:

Additional operations personnel will be required to operate the facility however the revenue generated would more than pay for the increased costs after the initial payback period.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$9,700,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,700,000
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	343	920	5,644	832	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	696	9,004	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: XA - New Digestion Facilities
Managing Department: Engineering and Technical Services
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Aug 2002
Construction:	Dec 2010

Project Completion:	Dec 2018
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Project Description:

Project provides for construction of a new advanced digestion facility capable of anaerobically digesting all biosolids generated at the Blue Plains AWTP, as called for in the Biosolids Master Plan. The anaerobic digestion process produces Class A Biosolids and reduces the volume and weight of biosolids to be transported resulting in reduced truck traffic, odor, and noise.

Impact on Operations:

The new digestion facility reduces biosolids production by half, produces a stable product for beneficial reuse, and generates excess digester gas that can supply 1/3 of the plant's electrical needs. The facility provides O&M savings beginning in FY 2015

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$535,654,354
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$547,258,540
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$11,604,185
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$12,569,818
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	501,913	24,401	113	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	543,534	3,725	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: XB - Centrifuge Thickener Facility
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Jun 2005
Construction:	Mar 2009

Project Completion:	Apr 2017
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Project Description:

Project upgrades the existing Dissolved Air Flotation thickening facility, in which all biological waste secondary, nitrification and denitrification sludges generated at the Blue Plains AWTP are thickened. This project provides consistent and reliable production of thickened biological sludge at the desired concentration that is required for efficient operation of the Digester Facility.

Impact on Operations:

This project provides improved process efficiency and reliability, and reduces objectionable odors.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$48,669,994
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$48,669,994
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$2,088,754
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	48,093	247	62	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	48,670	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: XZ - Solids Processing Building / DSLF
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	Sep 2005

Project Completion:	Jan 2023
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Project Description:

This project involves repairs to chemical systems and provides for miscellaneous improvements to the Solids Processing Building and Dewatered Sludge Loading Facility. This project replaces aged equipment to ensure integrity and reliability of the systems and facilities which results in improved performance of chemical feed systems and other solids processing operations, and improved biosolids quality. Construction of a vault and switchgear improvements at the main substation are also included in this project.

Impact on Operations:

This project could increase operations and maintenance cost depending on final study findings and determination of Clean Air requirements, if any. A study of emissions data is ongoing.

Effective Funding by User (percent):

DC -	39.90%	FY2016 Approved Lifetime Budget	\$26,753,798
EPA/Fed -	1.33%	FY2017 Approved Lifetime Budget	\$26,790,180
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$36,382
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$715,330
Loudoun/PI -	4.55%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	12,457	1,010	2,192	2,007	3,161	1,653	675	690	179	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	13,980	7,460	0	3,000	0	2,350	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: YZ - Digestion Facilities Site Preparation
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	May 2000
Construction:	Nov 2001

Project Completion:	Jun 2016
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Project Description:

This project is comprised of two sub-projects: YZ01 Primary Sludge Screening & Degritting Wet Well Control involves installation of new controls for the primary sludge screens and the Degritting and Grinding Facility wet well at the Blue Plains AWTP; and YZ02 Digestion Facility Demolition and Site Preparation involves demolition of the decommissioned digester gas storage tank and sphere. Project YZ01 is needed to upgrade process technology to improve efficiency and reliability of sludge screening and to minimize potential for sludge spills. Project YZ02 would clear and prepare the site for future use.

Impact on Operations:

No significant operating cost impact.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$2,234,454
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,234,454
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$88,451
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,942	193	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,234	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: H7 - Blue Plains Tunnel Site Preparation
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Apr 2009
Construction:	Feb 2010

Project Completion:	Aug 2013
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Project Description:

This project is to demolish existing abandoned digesters to make way for the new dewatering pump station and the enhanced clarification facility (ECF). This revised location was necessary because these facilities would not fit at the original planned location.

Impact on Operations:

There are no anticipated impacts on operations or maintenance costs.

Effective Funding by User (percent):

DC -	41.22%
EPA/Fed -	0.00%
WSSC -	45.84%
Fairfax -	8.38%
Loudoun/PI -	4.56%

	CLOSED
FY2016 Approved Lifetime Budget	\$6,360,303
FY2017 Approved Lifetime Budget	\$6,360,303
Total DC Water Allocated Labor	\$176,090
Total Project Cost	\$6,536,393

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,784	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,360	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: BI - Enhanced Nitrogen Removal North
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Aug 2009
Construction:	Mar 2013

Project Completion:	Mar 2017
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Project Description:

This project was formally Project BI00 - Plantwide Fine Bubble in the Plantwide Program. The project replaces the diffusers in the Secondary Treatment process with a more efficient aeration system and rehabilitates equipment to improve reliability of the secondary treatment system to optimize the enhanced nitrogen removal process.

Impact on Operations:

This project will add facilities requiring operations and maintenance.

Effective Funding by User (percent):

DC -	30.24%	FY2016 Approved Lifetime Budget	\$72,628,380
EPA/Fed -	10.98%	FY2017 Approved Lifetime Budget	\$73,827,420
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$1,199,040
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$1,392,085
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	54,750	10,539	386	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	73,310	517	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: E8 - Enhanced Clarification Facilities
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Oct 2012
Construction:	Aug 2013

Project Completion:	Feb 2019
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Project Description:

The Enhanced Clarification Facility (ECF) is part of DC Water's proposed Total Nitrogen -Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components of this project are grit removal and screening for influent wastewater followed by an enhanced clarification facility. The new facilities will treat excess flow during wet weather events.

Impact on Operations:

Operation of the ECF will increase operating and maintenance costs, and specifically power and chemical costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$215,601,328
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$216,424,443
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$823,115
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$904,937
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	33,374	29,595	38,426	28,364	326	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	211,245	2,266	2,914	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: E9 - Nitrogen Removal Facilities
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Mar 2009
Construction:	Jan 2011

Project Completion:	Feb 2018
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Project Description:

This project entails a new or expanded nutrient removal system to lower the concentration of total nitrogen in the Blue Plains effluent to 3 mg/l. The Total Nitrogen Removal Project is part of DC Water’s proposed Total Nitrogen -Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components of this project are this project and Project EE, Centrate Treatment Facilities. Project EE provides for a new treatment system that will remove nitrogen from the recycle stream from solids processing.

Impact on Operations:

Operation of the new system will significantly increase operating and maintenance costs beginning in FY 2014. Increased chemical addition and power consumption comprise most of the cost increase.

Effective Funding by User (percent):

DC - 35.69%
 EPA/Fed - 5.55%
 WSSC - 45.83%
 Fairfax - 8.38%
 Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$270,562,376
FY2017 Approved Lifetime Budget	\$271,456,742
Lifetime Budget Increase/Decrease	\$894,366
Allocated Labor as of FY 2015	\$5,930,526

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	259,068	4,072	544	127	0	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	271,280	176	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: EE - Filtrate Treatment Facilities
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Aug 2009
Construction:	Mar 2014

Project Completion:	Oct 2020
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Project Description:

This project provides for a new treatment system that will remove nitrogen from the recycle stream from solids processing. The Total Nitrogen Removal Project is part of DC Water’s proposed Total Nitrogen -Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components are the TN/WW(EF) and project E9, Total Nitrogen Removal. Project E9 entails a new or expanded nitrogen removal process to lower the concentration of total nitrogen in the Blue Plains effluent to 3 mg/l.

Impact on Operations:

Operation of the new system will significantly increase operating and maintenance costs beginning in FY 2015. Increased chemical addition and power consumption comprise most of the cost increase.

Effective Funding by User (percent):

DC - 40.28%
 EPA/Fed - 0.94%
 WSSC - 45.84%
 Fairfax - 8.38%
 Loudoun/PI - 4.56%

FY2016 Approved Lifetime Budget	\$104,596,621
FY2017 Approved Lifetime Budget	\$106,345,012
Lifetime Budget Increase/Decrease	\$1,748,391
Allocated Labor as of FY 2015	\$1,712,681

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	39,021	31,803	6,540	6,874	890	144	1	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	94,320	976	11,049	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: EG - Blue Plains Tunnel
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	May 2011
Construction:	May 2011

Project Completion:	May 2024
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Project Description:

The Blue Plains Tunnel is part of DC Water's proposed Total Nitrogen - Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components of this project are a 23 foot diameter tunnel from Main and O Streets to Blue Plains. The Blue Plains Tunnel has been included in the draft TN/Wet Weather Plan that DC Water submitted to the USEPA. The recommended alternative in the plan removes additional nitrogen from the wastewater prior to discharge and improves the quality of discharge to the Potomac and Anacostia Rivers during wet weather events.

Impact on Operations:

Dewatering pump station costs will increase operating and maintenance costs beginning in FY 2018.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$177,380,058
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$177,380,058
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$3,047,285
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	154,709	6,320	202	3	3	3	3	3	3	2	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	177,380	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: FG - Secondary Treatment Upgrades for TN
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Feb 2022
Construction:	Feb 2024

Project Completion:	Jul 2028
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Project Description:

This project will expand Secondary Reactors 5 and 6 to double their size to provide adequate secondary treatment capacity for the AWTP at Blue Plains design capacity. This project includes a study phase to assess the most sustainable and cost-effective process to increase the secondary treatment capacity.

Impact on Operations:

This project would improve Plant performance but would have marginal increased operational and maintenance costs.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$57,034,022
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$57,141,625
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$107,603
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$37,279
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,178	373	436	369	0	0	0	597	1,249	5,518	23,161	14,061
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,757	500	440	0	0	0	0	2,769	66	50,328	0	1,282

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: FR - BP Tunnel Dewatering Pumping Sta
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Aug 2013
Construction:	Aug 2013

Project Completion:	Feb 2019
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Project Description:

This pump station located at Blue Plains at the terminus and lowest point of the tunnel system is designed to dewater the entire contents of the tunnel system and pump it to treatment at Blue Plains treatment plant during and after a rain event.

Impact on Operations:

The dewatering pump station is an integral part of the underground storage solution to CSO control. Without a dewatering pump station a deep underground storage tunnel solution cannot be employed. Operations and maintenance costs will increase.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$33,045,690
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$33,486,972
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$441,282
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$376,635
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,367	6,165	6,836	4,417	181	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	32,125	500	862	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: FS - Bolling Overflow & Diversion
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Sep 2013
Construction:	Oct 2014

Project Completion:	Mar 2018
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Project Description:

This project will include a diversion chamber to capture overflows from the Potomac outfall sewers and direct them into the Anacostia CSO tunnel during a rain event and an overflow structure for the Anacostia CSO tunnel when it reaches it's full capacity. It also includes the internals of the tunnel drop shaft which is constructed a part of Blue Plains tunnel project. This is one of the two overflows for the Anacostia CSO tunnel system.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	41.22%	FY2016 Approved Lifetime Budget	\$53,404,794
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$53,404,794
WSSC -	45.84%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	8.38%	Allocated Labor as of FY 2015	\$835,066
Loudoun/PI -	4.56%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,572	14,276	11,830	4,612	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	53,405	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: LM - ENR Program Management
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2021
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Project Description:

Program management services are provided during planning, design, and construction of upgrades to the nitrogen removal facilities at the Blue Plains AWTP to ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required for the Enhanced Nitrogen Removal Program due to the size and scope of the projects that comprise this program.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	41.73%	FY2016 Approved Lifetime Budget	\$52,022,899
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$43,371,078
WSSC -	45.44%	Lifetime Budget Increase/Decrease	(\$8,651,821)
Fairfax -	8.31%	Allocated Labor as of FY 2015	\$65,745
Loudoun/PI -	4.52%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,010	4,853	7,407	8,679	4,436	3,771	943	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,659	15,820	8,800	10,092	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: DC Clean Rivers Project
Project ID/Project Title: LJ - DC Clean Rivers Green Infrastructures
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Jun 2014
Construction:	

Project Completion:

Project Description:

This project proposes to construct large scale public and private space green infrastructure demonstration projects in the watersheds of the Potomac and Rock Creek to test its effectiveness in controlling CSOs. This project involves working with the neighborhoods and the District to install and test GI and to monitor its effectiveness for two years after construction. Based on the results of the demonstration project, DC Water will conduct an open, public process to determine whether to change the CSO controls required for the Potomac River and Rock Creek. With public and EPA input, DC Water will determine whether to control CSOs in these watersheds using green infrastructure, a hybrid green-gray solution, or continue with the tunnels as currently planned. If EPA determines that one or more of the sustainable alternatives will achieve compliance with water quality standards while providing overall superior environmental effects, DC Water will propose a second consent decree amendment to substitute the selected alternative(s) and schedules for their implementation. If, on the other hand, EPA determines none of the alternatives will provide superior improvements or achieve water quality standards, DC Water will be required to design and construct the tunnel and related facilities in the current consent decree.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	93.02%
EPA/Fed -	0.00%
WSSC -	5.45%
Fairfax -	0.99%
Loudoun/PI -	0.54%

	CLOSED
FY2016 Approved Lifetime Budget	\$2,205,565
FY2017 Approved Lifetime Budget	\$7,500,000
Total DC Water Allocated Labor	\$10,951
Total Project Cost	\$7,510,951

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,699	0	0	0	0	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,500	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: DC Clean Rivers Project
Project ID/Project Title: CY - Anacostia LTCP Projects
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Apr 2009
Construction:	Feb 2010

Project Completion:	Dec 2025
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Project Description:

A tunnel will be constructed in 3 segments; the first extends from the Blue Plains Treatment Plant north following the route of the Potomac crosses underneath the Anacostia River north of Poplar Point and terminates at Main and O Pump Station. The second segment commences at Poplar Point crosses the Anacostia runs along the Navy Yard and terminates just south of RFK stadium. The third segment runs from the stadium north east past the national arboretum to the Rhode Island Avenue metro station and will then follow a southwest alignment along Rhode Island Avenue. Construction also includes smaller diameter pipelines or tunnels to intercept flooding in the northeast boundary area and redirect it to the tunnel. In addition, the project includes the construction of numerous surface structures such as diversion chambers to convey flow to the tunnels and overflow structures to relieve the system if overwhelmed. When completed, this project along with other CSO projects already completed or underway, are expected to reduce CSOs to the Anacostia River by about 98 percent.

Impact on Operations:

The project will result in increased operations and maintenance costs related to the tunnels, pumping station, intercepting sewer and various diversion structures. Additional operations and maintenance costs will also be incurred for monitoring the compl

Effective Funding by User (percent):

DC -	90.33%	FY2016 Approved Lifetime Budget	\$1,902,751,801
EPA/Fed -	4.72%	FY2017 Approved Lifetime Budget	\$1,910,974,965
WSSC -	3.92%	Lifetime Budget Increase/Decrease	\$8,223,163
Fairfax -	0.67%	Allocated Labor as of FY 2015	\$12,799,768
Loudoun/PI -	0.37%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	749,963	202,980	124,120	102,248	112,745	158,111	121,650	40,117	30,233	3,122	3,518	30,813
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,272,335	34,539	570,616	5,168	19,839	0	0	0	0	8,478	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: DC Clean Rivers Project
Project ID/Project Title: CZ - Potomac LTCP Projects
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Oct 2015
Construction:	Oct 2015

Project Completion:	Aug 2029
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Project Description:

The purpose of this project is to capture and provide storage for combined sewer overflows (CSOs) being discharged to the Potomac River. The project comprises construction of a tunnel approximately 3 miles long with a volume of about 58 million gallons, along the Georgetown bank of the river. Construction also includes a pumping station near the Kennedy Center to dewater the tunnel to the existing collection system for treatment of the stored CSO at Blue Plains and various diversion structures to convey combined sewer flow to the tunnel. When completed, this project, together with CSO control projects already completed, or underway, are expected to reduce CSOs to the Potomac River by about 93 percent.

Impact on Operations:

The project will result in increased operations and maintenance costs related to the tunnels, pumping station, intercepting sewer and various diversion structures. Additional operations and maintenance costs will also be incurred for monitoring the compl

Effective Funding by User (percent):

DC -	93.98%
EPA/Fed -	0.06%
WSSC -	4.65%
Fairfax -	0.85%
Loudoun/PI -	0.46%

FY2016 Approved Lifetime Budget	\$410,394,435
FY2017 Approved Lifetime Budget	\$614,100,000
Lifetime Budget Increase/Decrease	\$203,705,565
Allocated Labor as of FY 2015	\$53,117

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	5,213	6,549	10,164	21,914	8,962	0	13,943	27,271	28,669	68,885	50,348	298,842
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	30,956	10.150	30.000	0	0	0	45.000	30.100	436.894	0	31,000	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: DC Clean Rivers Project
Project ID/Project Title: DZ - Rock Creek CSS LTCP Project
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	May 2015
Construction:	Sep 2016

Project Completion:	Mar 2030
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Project Description:

The purpose of this project is to capture and provide storage for combined sewer overflows (CSOs) being discharged to Piney Branch, a tributary to Rock Creek. The project comprises construction of a tunnel approximately 1 mile long, with a volume of about 9.5 million gallons, above the banks of Rock Creek. Construction also includes a pipeline and control structure to convey stored CSO to the existing collection system for treatment at Blue Plains and diversion structures to convey CSO to the tunnel. When completed, this project, together with CSO control projects already completed, or underway, are expected to reduce CSOs to Rock Creek by about 90 percent

Impact on Operations:

The project will result in increased operations and maintenance costs related to the tunnel, pipeline and structures. Additional operations and maintenance costs will also be incurred for monitoring the completed facilities to assess performance of the C

Effective Funding by User (percent):

DC -	99.83%	FY2016 Approved Lifetime Budget	\$76,441,600
EPA/Fed -	0.17%	FY2017 Approved Lifetime Budget	\$238,939,080
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$162,497,480
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$24,542
Loudoun/PI -	0.00%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	1,187	2,483	7,039	6,015	2,819	0	0	15,602	23,545	5,746	8,716	135,029
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	7,384	19,600	0	0	0	0	0	46,279	0	0	52,533	113,143

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: CSO Program Management
Project ID/Project Title: AV - CSO Program Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	

Project Completion:	May 2025
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Project Description:
 Project AV provides engineering project management services for planning, design and rehabilitation projects for DC Water’s combined sewer system for the purpose of reducing adverse impact of combined sewer overflow to the receiving waters

Impact on Operations:
 Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	98.95%	FY2016 Approved Lifetime Budget	\$64,569,332
EPA/Fed -	1.05%	FY2017 Approved Lifetime Budget	\$64,562,827
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$6,505)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$722,893
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	17,891	1,832	2,844	3,033	2,333	2,593	2,404	3,890	4,359	3,060	1,846	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	45,197	0	0	0	0	19,365	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: BB - Potomac Pumping Station Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Jul 2002
Construction:	Apr 2005

Project Completion:	Dec 2013
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Project Description:

Project BB provides for the rehabilitation that will restore the station to reliable operating condition and restore its pumping capacity to the rated flow of 460 MGD. This project provides for the rehabilitation or replacement of pumps, motors, motor controls and the electrical system. It also provides for improvements to the HVAC system.

Impact on Operations:

Rehabilitation of this station will increase the overall reliability of the station and the amount of flow that can be pumped to Blue Plains thus reducing the quantity of overflows. There will be no material impact on operating costs.

Effective Funding by User (percent):

DC -	24.89%
EPA/Fed -	24.86%
WSSC -	27.41%
Fairfax -	14.48%
Loudoun/PI -	8.36%

	CLOSED
FY2016 Approved Lifetime Budget	\$20,058,321
FY2017 Approved Lifetime Budget	\$19,834,308
Total DC Water Allocated Labor	\$631,078
Total Project Cost	\$20,465,385

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	19,834	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	19,834	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

I Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was derived in accordance with the Blue Plains IMA of 1985.

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: IJ - Combined Sewer Rehabilitation 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:

Project Description:

This multi-job project to rehabilitate combined sewers in various locations throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer infrastructure to be rehabilitated is prioritized based on the criticality given to sewer segments, with priority given to infrastructure which transverses under existing buildings. Sewer infrastructure would be rehabilitated utilizing appropriate lining methods as well as any necessary replacement of offset pipes. Multiple jobs provide the annualized program to rehabilitate the large sewer inventory which exhibit deteriorated conditions.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	0.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$30,000,000
FY2017 Approved Lifetime Budget	\$0
Total DC Water Allocated Labor	
Total Project Cost	

Disbursements	<u>Pre FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Post FY 2025</u>
	Budget	0	0	0	0	0	0	0	0	0	0	0
Commitments	<u>Pre FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Post FY 2025</u>
	Budget	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: JT - Combined Sewer Rehabilitation 4
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:

Project Description:

This project to rehabilitate and/or replace combined sewers throughout the District of Columbia as one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Specific sewers for inclusion in this project will be determined by the ongoing condition assessment work.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	0.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$30,087,832
FY2017 Approved Lifetime Budget	\$0
Total DC Water Allocated Labor	
Total Project Cost	

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: A7 - Supplemental Environmental Projects
Managing Department: Engineering and Technical Services
EPMC: DETS - Engineering & Tech Services
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	May 2005
Construction:	Feb 2007

Project Completion:	Oct 2015
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Project Description:

This project was created to respond to requirements negotiated under the 3-Party Consent Decree to settle a lawsuit alleging violation of the CSO provisions of the federal Clean Water Act. Under this project, DC Water will provide funds to the Chesapeake Bay Foundation to undertake green roof projects within the CSO area in the District. DC Water will also provide funds to the Urban Forestry Administration in the DC DOT to plant 3,000 trees in the CSO area and to install 2 rain gardens in N.E. DC.

Impact on Operations:

This project will not have any material impact on the operations budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$1,900,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$1,900,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$69,603
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,670	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,900	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: BA - DC Water Low Impact Development
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Feb 2002
Construction:	Jun 2004

Project Completion:	Dec 2017
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Project Description:

This project was developed in accordance with DC Water's commitment to promote Low Impact Development (LID) to control wet weather related pollution, DC Water has or will under take projects to implement LID technology at its own facilities, when and where possible. In addition to reduce stormwater runoff and thereby contribute to the water quality of the receiving waters, this also provides DC Water the opportunity to examine effectiveness of various LID techniques.

Impact on Operations:

There will be some increase in O&M activities when these projects are implemented.

Effective Funding by User (percent):

DC -	96.93%	FY2016 Approved Lifetime Budget	\$3,000,000
EPA/Fed -	3.08%	FY2017 Approved Lifetime Budget	\$3,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$46,235
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,814	268	47	16	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,000	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: BH - Rock Creek CSO Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Mar 2007
Construction:	Mar 2009

Project Completion:	Sep 2015
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Project Description:

These are Combined Sewer System (CSS) Long Term Control Plan (LTCP) early action projects. The regulators at outfalls 033, 036, 047 and 057 will be evaluated to determine if additional combined sewer flows can be contained within the sewer to reduce CSOs to Rock Creek. The CSS area served by outfalls 031, 037, 053, and 058 will be separated into an independent sanitary system and storm sewer system thus eliminating these outfalls and the resultant CSO.

Impact on Operations:

Elimination of the outfalls indicated will reduce operating costs by reducing the need for the periodic inspections effort.

Effective Funding by User (percent):

DC -	52.24%	FY2016 Approved Lifetime Budget	\$16,669,891
EPA/Fed -	47.76%	FY2017 Approved Lifetime Budget	\$16,670,115
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$224
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$652,944
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	15,006	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	16,670	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: DD - O Street Development Effort
Managing Department: Finance, Accounting & Budget
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Jul 2016
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Project Description:

This project is for preliminary efforts needed to address the new stadium projects in the vicinity of Main and "O" and the renovations attendant thereto.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$790,570
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$790,570
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$86,674
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	758	13	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	791	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: EJ - Potomac Pumping Station-Ph III Rehab ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Oct 2009
Construction:	Feb 2012

Project Completion:	May 2019
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Project Description:

This project will provide a general upgrade to this station that was placed in service in 1963. It will provide for the replacement of the four existing screens, replacement of gate valve actuators, additional sluice gates between the pumps and the wet well, and a replacement lighting system. It will also provide a new fire alarm and suppression system.

Impact on Operations:

While there is no financial impact on operations, this project will increase the efficiency and decrease the maintenance costs associated with the Potomac Pumping Station, as well as provide the flexibility to reroute influent from any wet well to another

Effective Funding by User (percent):

DC -	49.80%	FY2016 Approved Lifetime Budget	\$21,478,130
EPA/Fed -	2.04%	FY2017 Approved Lifetime Budget	\$22,784,411
WSSC -	27.88%	Lifetime Budget Increase/Decrease	\$1,306,281
Fairfax -	14.06%	Allocated Labor as of FY 2015	\$526,030
Loudoun/PI -	6.22%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,491	3,159	3,522	1,542	4	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	21,224	1,230	0	330	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: EK - Long Term Rehab-Main & O Pump Sta ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Dec 2020
Construction:	Mar 2024

Project Completion:	Nov 2026
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Project Description:

This project will provide for a 30-year upgrade to the Main Pumping Station and the O Street Pumping Stations. This project will replace the Main Pumping Station's sanitary pumps, motors and controls, all six storm pumps, motors and controls, rebuild or replace various large gates in the channels, provide a new roof, provide general HVAC improvements and provide a new and separate pumping station for the low area sewer. This project will replace the O Street Pumping Station's six storm pumps, motors and controls as necessary and provide miscellaneous structural, architectural and electrical upgrades. It will also provide various site improvements around both stations. Parts of this project that pertained to rehabilitation, and identified as necessary prior to 2019, have been rescheduled under a new project (FQ). Accordingly, the budget for this project has been reduced to reflect the cost of such work transferred to the new Project (FQ).

Impact on Operations:

While there is minimal financial impact on Operations, this project provides new sanitary and storm pumps, that will be more efficient than the ones currently in place, which were cast into the concrete in 1908 when the station was built. It also provide

Effective Funding by User (percent):

DC -	89.70%	FY2016 Approved Lifetime Budget	\$55,644,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$55,644,000
WSSC -	10.30%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	1,297	2,368	2,425	3,089	11,837	6,485
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	10,533	0	0	44,591	520	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: EL - Swirl Facility Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Nov 2008
Construction:	Aug 2014

Project Completion:	Mar 2018
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Project Description:

This project will provide a partial rehabilitation to this facility that was placed in service in 1990. It will provide for the replacement of deteriorated chemical pumps, repair structural damage done by chemicals, make repairs to the control system and wiring for the chemical pumps, replace deteriorated conduits and wiring in the screen room and swirl room as necessary, replace damaged components of HVAC system and repair the control system for the mixing chamber.

Impact on Operations:

There will be no significant impacts on operational costs.

Effective Funding by User (percent):

DC -	97.98%	FY2016 Approved Lifetime Budget	\$4,569,327
EPA/Fed -	2.02%	FY2017 Approved Lifetime Budget	\$4,570,215
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$888
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$49,188
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,280	93	252	51	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,485	0	85	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: EQ - Potomac Pumping Station-PH IV Rehab ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2021
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Project Description:

This project will provide a general upgrade to this station that was placed in service in 1963. It will provide for architectural improvements, painting throughout the station, new men's and women's ADA compliant restrooms, an odor control system, and VFD's for the two large pumps.

Impact on Operations:

This project will have no material impact on the operating budget, but will provide protection for the large pumps by installing variable frequency drives to more efficiently handle start ups.

Effective Funding by User (percent):

DC -	49.80%	FY2016 Approved Lifetime Budget	\$8,515,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,325,000
WSSC -	29.40%	Lifetime Budget Increase/Decrease	(\$6,190,000)
Fairfax -	14.70%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	6.10%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	39	78	1,299	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	325	0	2,000	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: FQ - Main & O St. PS Intermediate Upgrade ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Sep 2011
Construction:	Dec 2013

Project Completion:	Jul 2020
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Project Description:

This project will provide for needed replacement of storm water pumps and various sluice gates and gate valves at the Main and O Street Pumping Stations. At Main Pump Station, this project will replace three storm pumps, motors and controls and add a new sluice gate to isolate the suction side of Pump No. 4. Also, the project will replace large valves and sluice gates as well as replacing the discharge flap gates on all six storm pumps. At the 'O' Street Pumping Station this project will replace seven gate valves on the suction and discharge of the four sanitary pumps and automate these gate valves to improve control of the flow within the station. Odor control will be addressed as well as screenings conveyance and handling.

Impact on Operations:

There will be no significant impacts on operational costs.

Effective Funding by User (percent):

DC -	89.90%	FY2016 Approved Lifetime Budget	\$34,178,862
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$45,884,945
WSSC -	10.10%	Lifetime Budget Increase/Decrease	\$11,706,083
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$52,471
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,082	1,623	1,627	9,875	10,995	3,331	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,835	205	40,545	300	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: FX - Rehab Northeast Boundary Sewer-PH I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Nov 2018
Construction:	Nov 2020

Project Completion:	Jan 2023
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Project Description:

This project will repair several segments of the lower portion of the Northeast Boundary Trunk Sewer (NEBT). The proposed project will rehabilitate approximately 5,700 feet of the sewer from structure B-1098 to structure N-36141, using the appropriate rehabilitation methods.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$18,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$18,500,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$3,294
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,166	158	0	320	528	3,185	5,092	435	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,982	0	0	0	1,232	1,155	12,131	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: FZ - Tiber Creek Sewer Lining -Ph I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Apr 2017
Construction:	Sep 2018

Project Completion:	Oct 2020
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Project Description:

This project will rehabilitate approximately 6,300 total feet between two sewer segments of the Tiber Creek Trunk Sewer. This project will fix all observed structural defects, restore the structural integrity of the sewer, reduce root intrusion, improve hydraulic capacity and reduce infiltration and inflow into the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,500,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,113,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$613,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	658	813	4,097	3,935	26	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	387	1,661	14,869	197	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: G7 - Combined Sewers Under Buildings ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Mar 2009
Construction:	Jan 2010

Project Completion:	Sep 2019
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Project Description:

This new project is the outcome of the recommendations of a comprehensive Sewer System Assessment (SSA) commissioned by DC Water. This study recommended certain High Priority rehabilitation projects that needed to be undertaken to fix structural defects and restore structural integrity of the sewer system. This project rehabilitates combined sewers located under buildings Citywide identified as high priority activities under the SSA. Other activities included in this project are cleaning, pre and post CCTV, sealing joints and repair of offset pipe.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$25,120,804
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$15,980,804
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$9,140,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$379,973
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,790	1,317	301	1,298	2,797	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,397	779	0	6,805	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

² Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: IH - Combined Sewer Rehabilitation 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Dec 2012
Construction:	Dec 2012

Project Completion:	Apr 2019
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Project Description:

This multi-job project to rehabilitate combined sewers in various locations throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer infrastructure to be rehabilitated is prioritized based on the criticality given to sewer segments, with priority given to infrastructure which transverses under existing buildings. Sewer infrastructure would be rehabilitated utilizing appropriate lining methods as well as any necessary replacement of offset pipes. Multiple jobs provide the annualized program to rehabilitate the large sewer inventory which exhibit deteriorated conditions.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$27,600,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$18,100,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$9,500,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$171,483
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	11,828	1,488	124	1,068	490	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	15,248	0	2,852	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: IP - Tiber Creek Trunk Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Nov 2018
Construction:	Apr 2020

Project Completion:	Aug 2022
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Project Description:

This project involves the rehabilitation of severely deteriorated sections found at various locations on three (3) segments of the Tiber Creek Combined Trunk Sewer between Massachusetts Avenue NW to the north and N Street SE to the south (approximately 65 locations total) using appropriate rehabilitation techniques. The size of the trunk sewer ranges from 14'-0" by 14'-3" to 10'-5" by 24'-0". Project also includes the cleaning of the entire 6,400 LF combined sewer main, pre- and post CCTV inspections, reinstating service connections and other related activities.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$8,250,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,250,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	343	695	3,190	1,089	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	1,452	6,798	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: KI - Main & O St. Pump Stations³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

Phase	Start Date
Design:	Dec 2004
Construction:	Apr 2005

Project Completion:	Oct 2015
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Project Description:

Project KI provides for the restoration of the capacity of the Main Pumping Station to its rated flow of 240 MGD and the O" Street Pumping Station to 45 MGD. Work will include rebuilding and upgrading the sanitary pumps

Impact on Operations:

Rehabilitation of these stations will increase the amount of flow that can be pumped to Blue Plains thus reducing the quantity of overflows. The project make the facilities safer for personnel by improving the ventilation, providing odor control, installi

Effective Funding by User (percent):

DC -	55.42%	FY2016 Approved Lifetime Budget	\$79,900,723
EPA/Fed -	44.58%	FY2017 Approved Lifetime Budget	\$79,900,723
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$2,299,283
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	77,368	12	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	79,901	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: NZ - Floatable Debris Dock Replacement
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Sep 2015
Construction:	May 2017

Project Completion:	May 2018
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Project Description:

These existing facilities support one mandate of the LTCP Consent Decree, which patrols the Anacostia River to “skim” the surface clean of floatable debris passed (in part) into the river through DC Water’s combined sewer system. The existing dock facilities consist of three slips to house seven boats, one of which remains on its trailer due to lack of space. The docks are now greater than 25 years old and need to be replaced. The replacement slips (at least five) and associated new piles will allow flexibility and maneuverability of the boats, overcome the existing draft challenges of the river bottom, and most importantly, create safe conditions for the staff and their operations.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$995,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$995,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	0	121	270	287	0	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	300	0	695	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer Projects
Project ID/Project Title: OB - Inflatable Dams Replacement FY24
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	May 2024
Construction:	Oct 2025

Project Completion:	Apr 2027
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Project Description:

This project is for the design and construction of inflatable dams, downward opening gates, or bending weirs to replace the eight existing inflatable dams in the system. Alternatives to replacing these dams with other than inflatable dams are to be addressed at time of the replacement. The dams that will be replaced with in-kind dams involve the replacement of the rubber bladder, anchors, and mechanical components associated with the dam operation. Where the dams will be replaced with downward opening gates or bending weirs the existing dam, mechanical equipment, and control vault will be demolished. Then the replacement gates or weirs will be installed within the existing sewer.

Impact on Operations:

Not implementing this project may result in the failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$6,675,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,675,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	135	383	4,206
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	626	626	5,423

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater Local Drainage
Project ID/Project Title: A6 - Lining 22nd & P Sts. NW/NWBSO Repair
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Oct 2004
Construction:	Nov 2013

Project Completion:	Jul 2015
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Project Description:

This project is for the investigation, design and repair of the existing 8'-3 diameter Northwest Boundary Interceptor Sewer which has shown signs of structural defects during prior inspections. The project will decrease further deterioration of the asset.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$3,035,179
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,039,588
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$4,409
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$166,210
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,537	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,040	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater Local Drainage
Project ID/Project Title: GY - Storm Sewer Rehab Various Location
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Jul 2013
Construction:	Sep 2015

Project Completion:	Sep 2019
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Project Description:

This multi-job project rehabilitates storm sewers located throughout the District. Storm sewer infrastructure to be rehabilitated is prioritized based on the criticality given to inspected sewer segments, with priority given to infrastructure which transverses under existing buildings. Sewer infrastructure would be rehabilitated utilizing appropriate lining methods as well as the repair of any offset pipe. Multiple jobs provide the annualized program to rehabilitate the storm sewer inventory which exhibits deteriorated conditions and is located under buildings.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$6,580,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,580,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$17,986
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	69	223	66	822	290	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,150	330	1,877	3,224	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater Local Drainage
Project ID/Project Title: IE - Storm Sewer Rehabilitation 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Jul 2020
Construction:	Jan 2022

Project Completion:	Mar 2026
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Project Description:

This project rehabilitates storm sewers located throughout the District. Storm sewer infrastructure to be rehabilitated is prioritized based on the criticality given to inspected sewer segments, with priority given to infrastructure which transverses under existing buildings. Sewer infrastructure would be rehabilitated utilizing appropriate lining methods as well as the repair of any offset pipe. Multiple jobs provide the annualized program to rehabilitate the storm sewer inventory which exhibits deteriorated conditions and is located under buildings.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$7,016,500
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$7,016,500
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	8	63	608	265	844	1,024	188
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	144	202	2,013	413	2,287	1,957	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: AO - FY2009 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Sep 2009

Project Completion:	Dec 2015
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Project Description:

This project is for the FY 2009 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$497,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$497,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$2,120
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	421	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	497	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: BD - FY2011 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jul 2011

Project Completion:	Feb 2017
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Project Description:

This project is for the FY 2011 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$618,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$618,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$2,409
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	538	27	16	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	618	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: C6 - FY2006 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jul 2005

Project Completion:	Oct 2015
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Project Description:

This project is for the FY 2006 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$497,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$497,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$6,220
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	371	1	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	497	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: CD - FY2012 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Oct 2011

Project Completion:	Feb 2017
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Project Description:

This project is for the FY 2012 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$637,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$637,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$2,627
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	528	34	14	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	637	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: CN - FY2013 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2013

Project Completion:	Jun 2016
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Project Description:

This project is for the FY 2013 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$660,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$660,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,543
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	558	49	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	660	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: D7 - FY2014 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Oct 2013

Project Completion:	Jun 2016
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Project Description:

This project is for the FY 2014 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$680,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$680,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$2,272
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	444	110	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	680	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: DJ - FY2015 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jun 2015

Project Completion:	Dec 2016
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Project Description:

This project is for the FY 2015 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$701,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$701,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$4,077
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	570	45	20	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	701	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: DX - FY2016 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2016

Project Completion:	May 2017
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Project Description:

This project is for the FY2016 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$720,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$720,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	194	165	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	720	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: FN - FY2017 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2017

Project Completion:	May 2018
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Project Description:

This project is for the FY 2017 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$745,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$745,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	223	167	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	745	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: H5 - FY2018 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Mar 2018

Project Completion:	May 2019
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Project Description:

This project is for the FY 2018 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$770,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$770,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	223	191	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	770	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: HM - FY2019 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Mar 2019

Project Completion:	Feb 2020
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Project Description:

This project is for the FY 2019 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$794,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$794,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	265	186	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	794	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: JH - FY2020 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2020

Project Completion:	Feb 2021
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Project Description:

This project is for the FY 2020 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$820,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$820,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	301	205	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	820	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: LO - FY2021 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2021

Project Completion:	Feb 2022
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Project Description:

This project is for the FY 2021 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$845,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$845,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	330	227	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	845	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: M8 - FY2022 - DSS Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2022

Project Completion:	Jan 2023
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Project Description:

This project is for the FY 2022 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$820,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$820,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	465	194	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	820	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: MG - FY2023 - DSS Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Oct 2022

Project Completion:	Jan 2024
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Project Description:

This project is for the FY 2023 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$844,600
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$844,600
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	503	206	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	845	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: NV - FY2024 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2024

Project Completion:	Jan 2025
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Project Description:

This project is for the FY 2024 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$870,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$870,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	537	215	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	870	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater On-Going
Project ID/Project Title: PI - FY2025 - DSS Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2025

Project Completion:	May 2026
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Project Description:

This project is for the FY 2025 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$896,000
Lifetime Budget Increase/Decrease	\$896,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	247	484
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	896	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater Pumping Facilities
Project ID/Project Title: NG - Stormwater Pump Stations Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Nov 2016
Construction:	Apr 2018

Project Completion:	Jun 2028
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Project Description:

This project provides for the rehabilitation of 12 of the 16 stormwater pumping stations that were not upgraded in the last 5 years. These stations are aging and require new mechanical and electrical equipment to maintain operations

Impact on Operations:

This project has no material impacts on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$25,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$25,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	126	774	964	78	1,280	4,787	23	0	0	7,018
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	721	3,279	0	200	9,800	0	0	0	0	11,000

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: AR - FY2009 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2015
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Project Description:

This project is for the FY 2009 annual program of stormwater infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District of Columbia Department of Public Works. This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$160,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$160,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	160	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: B3 - FY2010 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2015
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Project Description:

This project is for the FY 2010 annual program of stormwater infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimize public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$165,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$165,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	165	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: BM - FY2011 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2015
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Project Description:

This project is for the FY 2011 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimize public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$170,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$170,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	170	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: CB - FY2012 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Aug 2016
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Project Description:

This project is for the FY 2012 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$175,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$175,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	8	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	175	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: CL - FY2013 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Aug 2017
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Project Description:

This project is for the FY 2013 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$180,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$180,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1	9	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	180	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: D8 - FY2014 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Aug 2018
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Project Description:

This project is for the FY 2014 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$185,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$185,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	1	12	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	185	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: DK - FY2015 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2015
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Project Description:

This project is for the FY 2015 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$191,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$191,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	191	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: DT - FY2016 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2016
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Project Description:

This project is for the FY 2016 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$196,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$196,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	8	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	196	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: FM - FY2017 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2015
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Project Description:

This project is for the FY 2017 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$205,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$205,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	205	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: H4 - FY2018 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2018
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Project Description:

This project is for the FY 2018 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

FY2016 Approved Lifetime Budget	\$215,000
FY2017 Approved Lifetime Budget	\$215,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	14	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	215	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: HP - FY2019 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2015
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Project Description:

This project is for the FY 2019 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$220,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$220,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	220	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: P5 - FY2004 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Mar 2016
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Project Description:

This project is for the FY 2004 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$20,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$20,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$5,405
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	20	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: P8 - FY2007 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Mar 2016
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Project Description:

This project is for the FY 2007 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

FY2016 Approved Lifetime Budget	\$155,000
FY2017 Approved Lifetime Budget	\$155,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	155	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: DDOT Stormwater
Project ID/Project Title: P9 - FY2008 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	

Project Completion:	Mar 2016
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Project Description:

This project is for the FY 2008 annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the Department of Public Works. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$1,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$1,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,000	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater Research & Program Mgmt
Project ID/Project Title: AT - Stormwater Program Management
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Aug 2025
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Project Description:

This project provides engineering program management services for the stormwater service area capital projects and design management services for the rehabilitation or replacement of 15 stormwater pumping stations. It also provides engineering services for condition assessment of the storm sewer system and development of conceptual design for the storm sewer system capital projects.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$11,979,222
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$12,013,222
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$34,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$282,922
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,984	256	179	194	158	172	145	230	269	210	163	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	10,379	0	0	0	0	1,634	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Stormwater Service Area
Program Title: Stormwater Trunk/Force Sewers
Project ID/Project Title: BO - Future Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Jan 2006
Construction:	Oct 2009

Project Completion:	Dec 2018
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Project Description:

This project provides design and construction services for stormwater sewer interceptors, trunk sewers and force mains that require upgrades. Sewers rehabilitated by this project are defined by the major planning and condition assessment program underway for the stormwater sewer system. As the assessment of the storm sewer system progresses and specific rehabilitation needs are identified, jobs will be created under this project to remediate system problems.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	96.49%	FY2016 Approved Lifetime Budget	\$15,597,208
EPA/Fed -	3.51%	FY2017 Approved Lifetime Budget	\$15,597,208
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$362,594
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,775	307	611	696	144	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	10,258	1,711	1,658	1,970	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: GI - Small Local Sewer Rehab I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2011
Construction:	Dec 2014

Project Completion:	Oct 2018
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$28,113,344
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$28,114,327
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$984
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$88,410
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,878	1,495	2,689	909	1	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	20,569	7,545	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: G8 - Small Local Sewer Rehab 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jun 2013
Construction:	Sep 2014

Project Completion:	Dec 2016
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Project Description:

This project to rehabilitate and repair local sewers throughout the District of Columbia is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. This project would repair approximately 10,000 liner feet of defective sewer pipes with an average sewer diameter of 18 inches. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the city.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$2,830,169
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,842,234
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$12,064
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$59,165
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	294	564	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,842	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: G9 - Small Local Sewer Rehab 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2014
Construction:	Dec 2016

Project Completion:	Apr 2018
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Project Description:

This project to rehabilitate and repair local sewers throughout the District of Columbia is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. This project would repair approximately 20,000 liner feet of defective sewer pipes with an average sewer diameter of 18 inches. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the city.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$5,650,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$5,650,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$44,265
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	267	65	1,493	288	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	437	644	4,569	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: GA - Small Local Sewer Rehab 4
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2014
Construction:	Mar 2015

Project Completion:	Nov 2016
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Project Description:

This project to rehabilitate and repair local sewers throughout the District of Columbia is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. This project would repair approximately 30,000 liner feet of defective sewer pipes with an average sewer diameter of 18 inches. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the city.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$8,557,261
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,557,261
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$13,483
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,738	40	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,452	105	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: J3 - Sewer Upgrade - City Wide
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Dec 2000
Construction:	Nov 2002

Project Completion:	Jul 2020
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Project Description:

This project is for the assessment, design and construction of sanitary sewer interceptors, trunk sewers and force mains that require upgrade. Sewers rehabilitated by this project are defined by the major planning and condition assessment program underway for the sanitary sewer system. This project consists of four jobs to address sewer upgrade needs. It increases the reliability, restores the integrity, and maintains the capacity of DC Water's sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,228,508
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,291,710
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$63,202
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$691,284
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,734	201	1,492	1,339	850	326	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,132	8,667	0	2,493	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: JR - Sanitary Sewer Rehabilitation I4
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2019
Construction:	Aug 2020

Project Completion:	Nov 2021
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,175,500
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$15,630,250
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$545,250)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	301	680	6,789	20	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	2,529	13,102	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: JS - Sanitary Sewer Rehabilitation 15
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2019
Construction:	Apr 2019

Project Completion:	Mar 2022
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$13,910,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$15,630,250
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$1,720,250
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	358	1,065	4,824	1,617	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	2,800	1,400	11,430	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: JU - Sanitary Sewer Rehabilitation I3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2018
Construction:	Jan 2020

Project Completion:	Apr 2021
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$4,565,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$15,175,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$10,610,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	54	437	1,774	4,355	840	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	1,011	1,521	12,643	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: LK - Sanitary Sewer Rehabilitation I7
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2020
Construction:	Feb 2022

Project Completion:	Aug 2023
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,055,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,100,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$45,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	59	466	5,039	2,875	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	1,040	1,820	13,240	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: LL - Sanitary Sewer Rehabilitation I8
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2021
Construction:	Jul 2022

Project Completion:	Jan 2024
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,055,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,582,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$527,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	512	1,038	7,424	162	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	1,467	15,115	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: MO - Sanitary Sewer Rehabilitation 20
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2022
Construction:	Jul 2023

Project Completion:	Feb 2025
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$15,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,100,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$2,100,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	455	1,157	8,626	163	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	1,200	15,900	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: MP - Sanitary Sewer Rehabilitation 22
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2023
Construction:	Jul 2024

Project Completion:	Oct 2025
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$18,475,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,600,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$875,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	500	1,414	9,166	22
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	1,236	16,364	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: MZ - Sanitary Sewer Rehabilitation 24
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2024
Construction:	Jul 2025

Project Completion:	Jan 2027
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$19,239,654
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$18,120,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$1,119,654)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	484	1,316	7,754
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	1,273	16,847	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: NI - Sanitary Sewer Rehabilitation 21
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2022
Construction:	Feb 2024

Project Completion:	May 2025
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$20,100,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,100,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$3,000,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	103	683	5,762	4,051	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	1,300	2,000	13,800	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: NC - Sanitary Sewer Rehabilitation 23
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2023
Construction:	Feb 2025

Project Completion:	May 2026
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$20,703,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,600,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$3,103,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	111	715	6,125	3,761
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	1,300	2,291	14,009	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: NF - Sanitary Sewer Rehabilitation I9
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2021
Construction:	Feb 2023

Project Completion:	Aug 2024
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$18,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,582,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$1,418,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	103	684	5,054	4,025	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	1,400	2,160	13,022	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: NX - Sanitary Sewer Rehabilitation 25
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2024
Construction:	Dec 2025

Project Completion:	Mar 2027
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$20,219,500
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$18,664,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$1,555,500)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	157	959	9,326
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	1,960	0	16,704

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: NY - Sanitary Sewer Rehabilitation 26
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2025
Construction:	Jun 2026

Project Completion:	Sep 2027
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$21,324,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$19,100,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$2,224,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	613	10,307
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	1,400	17,700

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: JX - Sanitary Sewer Rehabilitation 10
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2016
Construction:	Oct 2017

Project Completion:	Jan 2019
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$13,600,000
Lifetime Budget Increase/Decrease	\$13,600,000
Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	127	378	4,224	297	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,033	1,360	11,207	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: PW - Sanitary Sewer Rehabilitation I I
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2017
Construction:	Jul 2018

Project Completion:	Nov 2024
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$13,900,000
Lifetime Budget Increase/Decrease	\$13,900,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	226	749	4,103	13	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	934	12,966	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: PX - Sanitary Sewer Rehabilitation I2
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2018
Construction:	Jun 2019

Project Completion:	Aug 2020
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$12,495,000
Lifetime Budget Increase/Decrease	\$12,495,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	66	761	4,001	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	740	11,755	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Collection Sewers
Project ID/Project Title: PY - Sanitary Sewer Rehabilitation I 6
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2020
Construction:	Jul 2021

Project Completion:	Jan 2023
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$16,100,000
Lifetime Budget Increase/Decrease	\$16,100,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	224	933	7,504	90	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	706	15,394	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: EU - Sewer Lateral Rehab and Main Lining
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Dec 2008

Project Completion:	Jul 2016
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Project Description:

This project has been created as a comprehensive program to accelerate the repair or replacement of sewer laterals which have already been reported and cleaned out by the Department of Sewer Services. Cases such as deterioration, tree roots and grease buildup damage have made straightforward solutions unlikely and given rise to the need for a more comprehensive program to provide permanent solutions in these types of situations. There are approximately 650 identified laterals of this nature. In addition, the TV assessment program implemented by Sewer Services has identified 30 mains which require lining to be restored to their full capacity within DC Water’s sanitary sewer system.

Impact on Operations:

While there will be no financial impact on the operating budget, this project will eliminate repeated service calls by Sewer Services personnel for these laterals and mains, freeing the Sewer staff to address other tasks.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$14,600,000
FY2017 Approved Lifetime Budget	\$14,600,000
Total DC Water Allocated Labor	\$1,293,723
Total Project Cost	\$15,893,723

	<u>Pre FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Post FY 2025</u>
Disbursements Budget	11,238	0	0	0	0	0	0	0	0	0	0	0
Commitments Budget	14,600	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: BF - FY2011 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Sep 2012

Project Completion:	Sep 2017
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Project Description:

This project is for the FY 2011 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$8,165,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,165,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$21,559
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,691	816	833	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,165	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: CE - FY2012 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Dec 2011

Project Completion:	Sep 2015
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Project Description:

This project is for the FY 2012 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,385,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,385,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$33,094
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	9,375	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	9,385	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: CQ - FY2013 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Mar 2013

Project Completion:	Feb 2016
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Project Description:

This project is for the FY 2013 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$10,205,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,205,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$32,493
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	9,661	2	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	10,205	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: D6 - FY2014 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Nov 2013

Project Completion:	Aug 2016
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Project Description:

This project is for the FY 2014 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$10,575,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,575,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$100,634
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,138	2,502	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	10,575	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: DI - FY2015 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2015

Project Completion:	Dec 2017
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Project Description:

This project is for the FY 2015 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$10,846,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,846,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$101,506
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,145	2,125	633	68	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	9,717	1,129	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: DW - FY2016 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jun 2015

Project Completion:	May 2019
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Project Description:

This project is for the FY 2016 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$11,215,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$14,600,593
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$3,385,593
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$29,416
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	194	858	3,311	2,911	702	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,700	3,386	6,515	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: FP - FY2017 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2017

Project Completion:	Jun 2018
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Project Description:

This project is for the FY 2017 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

FY2016 Approved Lifetime Budget	\$11,500,000
FY2017 Approved Lifetime Budget	\$11,500,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	3,715	2,222	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	11,500	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: H6 - FY2018 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2018

Project Completion:	Apr 2019
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Project Description:

This project is for the FY 2018 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

FY2016 Approved Lifetime Budget	\$11,845,000
FY2017 Approved Lifetime Budget	\$11,845,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	3,534	2,722	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	11,845	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: HN - FY2019 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2019

Project Completion:	Apr 2020
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Project Description:

This project is for the FY 2019 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$12,200,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$12,200,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	3,799	2,940	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	12,200	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: JJ1 - FY2020 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Apr 2020

Project Completion:	Apr 2021
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Project Description:

This project is for the FY 2020 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$12,568,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$12,568,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	3,394	3,921	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	12,568	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: LN - FY2021 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Apr 2021

Project Completion:	Apr 2022
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Project Description:

This project is for the FY 2021 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$12,945,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$12,945,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	3,500	4,159	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	12,945	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: M9 - FY2022 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Apr 2022

Project Completion:	Apr 2023
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Project Description:

This project is for the FY 2022 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$13,335,350
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$13,335,350
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	3,590	4,370	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	13,335	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: MF - FY2023 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Apr 2023

Project Completion:	Mar 2024
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Project Description:

This project is for the FY 2023 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$13,735,411
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$13,735,411
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	3,768	4,484	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	13,735	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: NW - FY2024 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Apr 2024

Project Completion:	Mar 2025
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Project Description:

This project is for the FY 2024 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$14,224,914
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$14,224,914
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	3,956	4,601	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	14,225	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: Q3 - FY2003 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Apr 2003

Project Completion:	Sep 2017
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Project Description:

This project is for the FY 2003 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	86.52%	FY2016 Approved Lifetime Budget	\$13,851,229
EPA/Fed -	13.48%	FY2017 Approved Lifetime Budget	\$13,863,052
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$11,823
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$652,778
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,076	1,159	808	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	10,436	3,365	62	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary On-Going
Project ID/Project Title: OX - FY2025 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Apr 2025

Project Completion:	Apr 2026
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Project Description:

This project is for the FY 2025 annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the Sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the Sanitary sewer system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$14,650,000
Lifetime Budget Increase/Decrease	\$14,650,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	4,036	4,273
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	14,650	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: CX - Sewer Facilities Security Upgrades
Managing Department: Security
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Jul 2015

Project Completion:	Nov 2016
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Project Description:

This project will provide for a security assessment, placement of exterior and interior cameras throughout Sewer Services Facilities, install traffic control devices (i.e., bollards & speed bumps), and install perimeter fencing (i.e., shoreline enclosures).

Impact on Operations:

This project will have no material impact on the operating budget, however minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$1,335,076
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$1,335,076
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	171	109	4	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	344	991	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: GZ - Sewer Instrumentation & Control ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Oct 2017
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Project Description:

This project will provide instrumentation and control enhancements at sewer pump stations and other sewer facilities located outside of Blue Plains throughout the District. The proposed controls would maximize flows to Blue Plains in wet weather, automate data capture for more efficient responses and optimize energy use at the sewer facilities. Project includes installation of flow meters, rain gauges, and SCADA equipment and controls. This project is a suggested project in the 2009 Sewer System Facilities Plan.

Impact on Operations:

Project would reduce wet weather CSO flow during high intensity, short duration events, reduce energy costs and would increase the useful life of DC Water facilities.

Effective Funding by User (percent):

DC -	92.71%	FY2016 Approved Lifetime Budget	\$4,285,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,785,000
WSSC -	4.78%	Lifetime Budget Increase/Decrease	\$2,500,000
Fairfax -	1.91%	Allocated Labor as of FY 2015	\$54,679
Loudoun/PI -	0.59%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	498	642	951	26	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,355	930	2,500	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

² Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: HB - DSS Sewer Pumping Project
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Oct 2010

Project Completion:	Sep 2019
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Project Description:

This project will support the Department of Sewer Services Pumping maintenance program. Large, expensive, and long lived equipment needs to be periodically replaced due to wear or premature failure. Major pumps, motors, valves, screens and related equipment will be replaced or rebuilt in each of the department's more than twenty pump stations as needed.

Impact on Operations:

Failure to proceed with this project will increase overtime and parts and labor costs in the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$4,560,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$4,560,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$10,367
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,159	305	8	8	6	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,560	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: LY - Sewer Facilities Security Upgrades
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Oct 2017

Project Completion:	Sep 2019
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Project Description:

This project will provide an upgrade to the Sewage Service Facilities & CSOs requiring immediate security attention to implement exterior and interior security elements (CCTV cameras, access card readers, sensors, etc), other control surveillance devices and systems to protect the existing infrastructure and critical assets against vandalism, criminal activity, and possible future terrorism; as well as to protect DC Water personnel

Impact on Operations:

This project will have no material impact on the operating budget, however minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$2,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	261	357	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	2,000	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: MB - 3rd St & Constitution Ave NW PS
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Feb 2014
Construction:	Feb 2014

Project Completion:	Jul 2018
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Project Description:

This project provides for the rehabilitation of the 3rd Street and Constitution Avenue NW, Pumping Station. Job MB01 (3rd Street and Constitution Avenue NW, Pumping Station Interim Rehabilitation) provides for the rehabilitation or replacement of most electrical and mechanical equipment and instrumentation in the station and the installation of an odor control system. Job MB02 (3rd Street and Constitution Avenue NW, Pumping Station Long-Term Rehabilitation) provides for the installation or replacement of several major items in the station including a new entrance to the wet well, replacement of the switchgear and feeders, and rehabilitation of the force main.

Impact on Operations:

This project will have no material impact on operating budgets.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$3,735,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$7,373,800
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$3,638,800
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$59,517
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	603	843	698	109	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,342	1,882	150	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: MC - Additional Sewer SCADA System Sites
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2016
Construction:	Oct 2017

Project Completion:	Mar 2019
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Project Description:

This project implements recommendations of the 2013 SCADA Master Plan. It is to add additional sites and also optimize the existing Sewer SCADA System. The initial focus will be to develop standards, implement changes needed for existing SCADA sites to conform to the standards, and perform system-wide testing to promote reliable monitoring and control of Sewer System SCADA sites. Completing the commissioning process places DC Water in a position to expand SCADA. The project also includes assessments to leverage SCADA for Energy Management, additional operational reports and organizational performance matrices in support of the Blue Horizon 2020 strategic plan. In the future, a fully optimized SCADA will move Sewer operations from an operator-based automation system to a centralized computer decision system that forecasts demand and continuously calculates optimal system settings within established operating constraints.

Impact on Operations:

The primary purpose of the SCADA System is to monitor the health of the distribution system and control water system equipment in order to meet water quality requirements and customer needs. Water and sewer operators need to understand alarms and see dis

Effective Funding by User (percent):

DC - 100.00%
 EPA/Fed - 0.00%
 WSSC - 0.00%
 Fairfax - 0.00%
 Loudoun/PI - 0.00%

FY2016 Approved Lifetime Budget	\$8,000,000
FY2017 Approved Lifetime Budget	\$8,000,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	0	367	82	1,395	371	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	564	1,400	0	6,036	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: PM - East Side Pumping Station
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Apr 2019
Construction:	Aug 2020

Project Completion:	Nov 2026
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Project Description:

The East Side Pumping Station does not have any upgrades planned in the future, but the Department of Distribution and Conveyance Systems has requested installation of a screenings handling system of conveyors with washer and compactor to facilitate more efficient operations.

Impact on Operations:

This project will have no material impact on operating budgets.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$4,000,000
Lifetime Budget Increase/Decrease	\$4,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	61	160	1,362	60	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	400	3,580	0	0	0	0	0	20

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Pumping Facilities
Project ID/Project Title: PT - Existing Sewer Facilities Bldg Optimization
Managing Department: Facilities Management
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Aug 2023
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Project Description:

To meet EPA guidelines for energy efficiency, water efficiency, sustainable buildings, renewable energy, safety requirements, and environmental management systems. All DC Water buildings, supporting sewer pumping should be upgraded to an electronic integrated Building Automation System for proper performance and remote control monitoring related with HVAC, Plumbing Elevators, Life Safety Equipment. Sewer Pumping Buildings requiring upgrades following by individual cost are : Main Pumping Station (\$305,000), O Pumping Station (\$200,000), Potomac Pumping Station (\$200,000). DFS is requesting project to be funded.

Impact on Operations:

This project will have no material impact on operating budgets.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$705,000
Lifetime Budget Increase/Decrease	\$705,000
Allocated Labor as of FY 2015	\$0

	<u>Pre FY 2016</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Post FY 2025</u>
Disbursements Budget	0	0	0	0	0	6	16	90	229	0	0	0
Commitments Budget	0	0	0	0	0	15	50	640	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Sewer Program Mgmt
Project ID/Project Title: AU - Sanitary Sewer Program Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Aug 2025
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Project Description:

This project provides engineering program management services for the sanitary sewer service area in the District. This five-year project involves planning, assessments, and conceptual designs for capital projects related to the sanitary sewer system. This project also provides design management services for the rehabilitation of three sewage pumping stations. This project increases the reliability, restores the integrity, and maintains the capacity of DC Water's sanitary sewer system.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$78,004,957
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$75,900,704
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$2,104,252)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$283,587
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	30,145	2,467	4,260	4,679	3,568	3,723	2,811	4,179	4,647	3,454	2,603	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	55,101	0	0	0	0	20,800	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Sewer Program Mgmt
Project ID/Project Title: DN - Sewer Inspection Program
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2010
Construction:	May 2011

Project Completion:	Jun 2026
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Project Description:
 The program will provide an ongoing effort to further inspect the Authority's existing sewer system

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$29,571,513
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$52,420,022
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$22,848,509
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$219,948
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,632	2,339	7,834	5,703	2,468	2,104	2,029	2,342	2,795	3,302	2,675	2,092
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	11,839	6,474	6,760	4,710	4,707	2,561	2,799	2,868	3,650	2,534	3,520	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Sewer Program Mgmt
Project ID/Project Title: LR - Sanitary Sewer Asset Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2020
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Project Description:

This project is to implement a comprehensive Asset Management program for Sanitary Sewer operations. The program consists of a variety of elements, including but not limited to technology and data, maintenance and work management, reliability and condition assessment and asset life cycle management activities. Asset Management implementation is expected to take place over a five year period.

Impact on Operations:

Additional operating/maintenance costs will be required, but greater savings through improved asset life cycle costing is anticipated.

Effective Funding by User (percent):

DC -	75.51%	FY2016 Approved Lifetime Budget	\$5,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$5,000,000
WSSC -	18.78%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	3.74%	Allocated Labor as of FY 2015	\$58,443
Loudoun/PI -	1.97%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,374	1,936	175	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,485	2,515	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IG - Sanitary Sewer Rehabilitation 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	0.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$20,995,000
FY2017 Approved Lifetime Budget	\$0
Total DC Water Allocated Labor	
Total Project Cost	

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: A4 - Future Sewer System Upgrades ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Oct 2003

Project Completion:	Sep 2023
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Project Description:

This project is to design and construct sanitary sewer interceptors, trunk sewers and force mains identified as requiring upgrade by the major planning and condition assessment program underway for the sanitary sewer system. This project is needed to construct new and rehabilitate or replace aged infrastructure to restore integrity and reliability of DC Water's sanitary sewer system.

Impact on Operations:

This project includes activities that will enhance system reliability and reduce emergency maintenance or repairs. Therefore, the project provides cost avoidance to future operating budgets.

Effective Funding by User (percent):

DC -	74.62%	FY2016 Approved Lifetime Budget	\$45,465,998
EPA/Fed -	4.59%	FY2017 Approved Lifetime Budget	\$45,455,666
WSSC -	16.57%	Lifetime Budget Increase/Decrease	(\$10,332)
Fairfax -	3.18%	Allocated Labor as of FY 2015	\$2,685,731
Loudoun/PI -	1.04%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	19,445	2,171	1,039	1,091	134	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	34,181	1,627	3,387	4,261	2,000	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: DM - UAMI Relief Sewer
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Sep 2010
Construction:	May 2019

Project Completion:	Aug 2021
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Project Description:

The existing Upper Anacostia Main Interceptor (UAMI) conveys sewage from the Eastland Gardens and Kenilworth neighborhoods to the Upper Anacostia Pumping Station on Anacostia Avenue, NE. The UAMI was constructed in the early 1930's and ranges in size from 18-inches to 24-inches in diameter. Due to population growth and pipe deterioration, the UAMI trunk and collection sewers were assessed for rehabilitation and capacity needs. This project includes the construction of a new 30-inch relief sanitary sewer and several repairs to the collection sewers tributary to the UAMI.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$14,406,632
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$14,505,255
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$98,623
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$55,176
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	477	396	62	0	414	3,931	1,483	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	666	1,240	0	0	12,599	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: DR - Low Area Trunk Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Sep 2007
Construction:	Jun 2009

Project Completion:	Jul 2018
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Project Description:

This project provides for the cleaning, assessing, design and rehabilitation of the 11,700 foot long Low Area Trunk Sewer after a collapse of a section of the sewer near the US Capitol Building. The line extends from 13th Street NW, to the Main Pumping Station. The majority of the work will be Cured In-Place Pipe (CIPP) and manhole rehabilitation.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$17,714,687
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,734,961
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$20,274
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$213,688
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,138	531	4,255	1,314	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,683	15,052	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: FV - Rehabilitation of East Side Interceptor
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Aug 2011
Construction:	Mar 2012

Project Completion:	Sep 2017
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Project Description:

This project will rehabilitate approximately 15,300 feet of the 72 inch diameter Lower East Side Interceptor using a slip lining method. The portion of the Lower East Side Interceptor proposed for rehabilitation is located between RFK Stadium and the Southeast Federal Center.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$15,142,656
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$15,142,656
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$109,894
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,443	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	15,143	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: FW - Rehab Piney Branch Trunk Sewer
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Jan 2014
Construction:	Jun 2016

Project Completion:	May 2021
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Project Description:

This project will rehabilitate the Piney Branch Trunk Sewer from the intersection of 3rd Street and Madison Street., NW to Structure No. 70, which is located at the outfall to Piney Branch in the vicinity of Piney Branch Parkway and 17th Street, NW. The project proposes to rehabilitate approximately 11,200 feet of the deteriorated sewer with an internal lining method.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$37,781,267
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$38,023,062
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$241,795
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$103,772
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	674	367	2,305	2,181	1,879	6,983	1,883	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,256	12,313	0	1,499	22,954	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: FY - Rehab Upstream Rock Creek Main Intrcpt²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Dec 2014
Construction:	May 2016

Project Completion:	Aug 2020
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Project Description:

This project will rehabilitate approximately 13,800 feet of the upper part of the Rock Creek Main Interceptor (RCMI). The project will repair all known defects of the RCMI including broken pipes, holes, missing mortar, and visibly exposed aggregate and structural reinforcement. The project proposes rehabilitation by lining methods of the Rock Creek Main Interceptor between the intersection of Joyce Road & Ross Drive, NW and Beach Drive, NW close to the intersection of Oregon Avenue, NW and Western Avenue.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	50.06%	FY2016 Approved Lifetime Budget	\$29,560,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$29,560,000
WSSC -	49.94%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$55,537
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	300	1,988	5,029	0	1,061	3,674	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	990	17,175	195	0	11,200	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

² Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: G2 - Sewer Structure Rehabilitation (I)
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Nov 2013
Construction:	Feb 2016

Project Completion:	May 2019
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Project Description:

This multi-phase / multi-job project was developed from the suggested project list included in the 2009 Sewer System Facilities Plan. Each job within the project proposes improvements to various sewer structures throughout the District. Project includes job G201, Rehabilitation of Structure 35B, to abandon the existing sewer structure inside the Kennedy Center and reinstate the structure at the intersection of 27th & G Street., NW. Project includes job G202, Sewer Structure 24 and 34 Improvements, to install access to the inflatable dams and rehabilitate Structures 24 and 34. Project includes job G203, Access Improvements to CSO 061, to provide maintenance accessibility to NPDES Outfall 061. Project includes job G204, Rehabilitation of Gates at Structures 5A, 5B and 5C, to replace the sluice gates for the sewer structures located outside of the Poplar Point Pumping Station.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC - 87.40%
 EPA/Fed - 0.00%
 WSSC - 12.60%
 Fairfax - 0.00%
 Loudoun/PI - 0.00%

FY2016 Approved Lifetime Budget	\$9,160,492
FY2017 Approved Lifetime Budget	\$9,181,550
Lifetime Budget Increase/Decrease	\$21,058
Allocated Labor as of FY 2015	\$53,530

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	317	370	333	664	465	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,360	2,022	300	2,500	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: G4 - Upper Potomac Intercept Sewer Rehab.
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Oct 2009
Construction:	Jun 2015

Project Completion:	Sep 2026
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Project Description:

Repair and return to service approximately 2,000 feet of the 48-inch diameter Upper Potomac Interceptor Sewer, which has been out of service since a failure occurred during Hurricane Agnes in June 1972. This project will divert future flow from the Upper Potomac Interceptor Relief Sewer, which will be at capacity in future years.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	80.48%	FY2016 Approved Lifetime Budget	\$3,999,282
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$14,014,041
WSSC -	15.12%	Lifetime Budget Increase/Decrease	\$10,014,759
Fairfax -	3.10%	Allocated Labor as of FY 2015	\$140,032
Loudoun/PI -	1.30%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	518	630	0	0	0	0	0	0	0	1,013	1,921	3,348
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,014	0	0	0	0	0	0	0	0	1,800	8,200	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

3 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: G5 - Sewer Rehab Near Creek Beds
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Health Safety

Phase	Start Date
Design:	Jun 2011
Construction:	Sep 2015

Project Completion:	Mar 2020
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Project Description:

This project consists of multiple jobs to protect infrastructure in the vicinity of streams and creeks located throughout the District. The project intends to relocate and rehabilitate manholes and sewer pipes vulnerable to flooding or erosion, infrastructure exposed to or adjacent to surface waters. Project also includes rehabilitation for outfalls and other tasks required to protect exposed sewers due to stream bank erosion.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$50,893,153
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$50,893,153
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$230,354
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,963	1,342	3,142	11,069	2,763	127	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,319	1,838	41,497	1,120	120	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: G6 - Sanitary Sewers Under Buildings I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2009
Construction:	Jan 2010

Project Completion:	Sep 2019
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Project Description:

This project rehabilitates sanitary sewers located under buildings citywide. Other activities included in this project are cleaning, pre and post CCTV, sealing joints and repair of offset pipe.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$8,473,692
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,473,692
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$108,981
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,483	472	89	979	1,058	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,967	214	202	5,090	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: GG - Large Sewer Rehab 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2014
Construction:	Dec 2019

Project Completion:	Dec 2020
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$3,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$10,004
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	124	81	0	14	14	947	188	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	452	0	0	36	76	2,436	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: GH - Large Sewer Rehab 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jan 2014
Construction:	Dec 2019

Project Completion:	Dec 2020
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$6,150,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,150,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$19,536
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	334	27	0	29	103	1,946	382	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	530	0	0	75	600	4,945	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: HS - Rehabilitation of Influent Sewers ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Feb 2018
Construction:	Jan 2020

Project Completion:	Feb 2031
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Project Description:

This project addresses the need to conduct detailed assessments of several major sewers within the District prior to proceeding with implementation of corrective actions. The relevant sewers include three of the major influent sewers to Blue Plains WWTP: the East Outfall Relief Sewer, the West Outfall Sewer and the West Outfall Relief Sewer. Activities would include cleaning, and inspection as necessary of 32,000 linear feet to fully ascertain the pipe condition, prior to future (as yet unfunded) rehabilitation.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences. Due to the size of the sewer and volume of flow, the negative effects on public health and safety

Effective Funding by User (percent):

DC -	97.11%	FY2016 Approved Lifetime Budget	\$3,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$63,000,000
WSSC -	2.13%	Lifetime Budget Increase/Decrease	\$60,000,000
Fairfax -	0.57%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.19%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	1,196	0	0	0	0	0	0	105	960	34,339
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	3,000	0	0	0	0	0	0	4,231	0	55,769

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: HT - Rehabilitation of Anacostia Force Main²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Sep 2011
Construction:	Oct 2013

Project Completion:	Nov 2020
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Project Description:

This project was developed to evaluate, rehabilitate and protect the Anacostia Force Main (AFM). The 108-inch diameter AFM extends 32,700 linear feet from the Maryland / District border to its terminus near South Capital Street and Firth Sterling Ave, SE. The AFM carries approximately 244 MGD (1/3 of WSSC's wastewater flow) to Blue Plains. This critical sewer consists largely of pre-stressed concrete cylinder pipe (PCCP) which has a history of failures throughout the industry. Job HT01 is to repair the force main's Cathodic Protection system due to its critical nature in protecting PCCP. Job HT02 is to repair known damaged pipe in 8 locations. Job HT05 plans for the future analysis and condition assessment of the AFM and Job HT06 is for a feasibility study to determine if the original force main can be put back into service.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	40.25%	FY2016 Approved Lifetime Budget	\$10,777,017
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$11,289,817
WSSC -	59.75%	Lifetime Budget Increase/Decrease	\$512,801
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$112
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,220	131	295	178	896	446	4	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,280	990	270	6,750	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IF - Sanitary Sewer Rehabilitation 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Oct 2014
Construction:	Aug 2016

Project Completion:	Jun 2018
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Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,273,470
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$7,726,530)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$50,151
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	232	280	2,624	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,267	7,007	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IK - Potomac Force Main Rehabilitation ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2016
Construction:	Nov 2017

Project Completion:	Feb 2019
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Project Description:

The project will provide for the rehabilitation of the Potomac Force Main. This is necessary in order to continue to gather information for the prioritization of rehabilitation projects established for both mainline sewers and sewer lateral repair work.

Impact on Operations:

This project will provide information regarding the status and condition of the sewer system and improve planning for the sewer system rehabilitation needs. This allows for the evaluation and prioritization of work for the large sewer rehabilitation p

Effective Funding by User (percent):

DC -	47.82%	FY2016 Approved Lifetime Budget	\$6,030,520
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,074,391
WSSC -	28.12%	Lifetime Budget Increase/Decrease	\$43,871
Fairfax -	18.15%	Allocated Labor as of FY 2015	\$23,739
Loudoun/PI -	5.92%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	700	197	470	1,239	204	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	800	1,125	500	3,650	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IL - Creekbed Sewer Rehabilitation 2²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Health Safety

Phase	Start Date
Design:	Sep 2013
Construction:	Apr 2016

Project Completion:	Jun 2021
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Project Description:

This project consists of multiple jobs to protect infrastructure in the vicinity of streams and creeks located throughout the District. The project intends to relocate and rehabilitate manholes and sewer pipes vulnerable to flooding or erosion and infrastructure exposed to or adjacent to surface waters. The project also includes the rehabilitation of outfalls and other tasks required to protect exposed sewers due to stream bank erosion.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	92.31%	FY2016 Approved Lifetime Budget	\$46,371,600
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$44,811,600
WSSC -	7.69%	Lifetime Budget Increase/Decrease	(\$1,560,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$208,955
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,176	2,010	6,894	1,936	764	3,041	582	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,341	25,587	704	3,799	7,446	934	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IM - Creekbed Sewer Rehabilitation 3²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Health Safety

Phase	Start Date
Design:	Apr 2016
Construction:	Mar 2018

Project Completion:	Jan 2022
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Project Description:

This project consists of multiple jobs to protect infrastructure in the vicinity of streams and creeks located throughout the District. The project intends to relocate and rehabilitate manholes and sewer pipes vulnerable to flooding or erosion and infrastructure exposed to or adjacent to surface waters. The project also includes the rehabilitation of outfalls and other tasks required to protect exposed sewers due to stream bank erosion.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$19,435,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$19,435,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	123	650	1,050	1,523	650	4,506	420	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	4,660	419	3,333	1,384	1,039	8,600	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

² Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IN - Upper East Side Trunk Sewer Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2012
Construction:	Oct 2018

Project Completion:	Dec 2019
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Project Description:

This project will be a multi job project for the rehabilitation of the Upper East Side Trunk Sewer. Job IN01 is associated with the cleaning and pre- and post CCTV inspection of part of the Upper East Side Interceptor located between the Arboretum and the intersection of this interceptor with the Northeast Boundary Trunk Sewer (NEBT). The section has a total length of approximately 6,370 LF. Job IN02 will rehabilitate the ESI by relining the pipe utilizing the appropriate methodology and reinstating service connections.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$18,250,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$18,250,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$48,721
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	492	593	741	4,399	451	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,211	2,018	1,257	1,863	10,577	324	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: J0 - B St/New Jersey Ave Trunk Sewer Rehab³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2009
Construction:	Jan 2019

Project Completion:	Apr 2021
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Project Description:

This project involves a condition assessment and conceptual design for repair of the B Street / New Jersey Avenue trunk sewer. This project identifies the structural integrity of the sewer system, and develops adequate and cost effective repair approaches. This project increases the reliability, restores the integrity, and maintains the capacity of the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	85.64%	FY2016 Approved Lifetime Budget	\$5,947,133
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,199,995
WSSC -	14.36%	Lifetime Budget Increase/Decrease	\$10,252,862
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$18,310
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	587	82	226	144	1,599	4,391	895	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	587	1,045	49	407	14,112	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: J1 - Oxon Run Sewer Rehabilitation ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Jun 2013
Construction:	Jun 2018

Project Completion:	Sep 2021
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Project Description:

This project assesses the condition and develops needed repairs for a segment of sewer that crosses Oxon Run. This project will increase the reliability, restore the integrity, stop leakage from the pipe, and maintain the capacity of the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	26.52%	FY2016 Approved Lifetime Budget	\$21,457,381
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$36,050,958
WSSC -	73.48%	Lifetime Budget Increase/Decrease	\$14,593,577
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$86,440
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	963	724	918	284	1,411	6,237	4,069	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,817	4,146	0	11,785	17,109	550	643	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: LZ - Potomac Interceptor - Rehab Ph 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2016
Construction:	Jan 2018

Project Completion:	May 2027
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Project Description:

This project will provide funding to rehabilitate segments of the Potomac Interceptor (PI) Sewer after the inspection, evaluation, and prioritization is determined by the Potomac Interceptor Sewer Inspection Program. Sewer segments would be rehabilitated using appropriate rehabilitation technology and include any necessary cleaning and point repairs. The project will include engineering services for the design, permitting, bid, and construction phases and funding for capital construction, construction management, and site access planning. The funding will also install flow meters and rain gauge systems to monitor real-time flow and rainfall rates to facilitate rehabilitation along the PI. Funding will also be used to develop a program that will monitor the Hydrogen Sulfide levels in the Potomac Interceptor (PI) Sewer for a period of 5 years. The program will evaluate the effectiveness of the Potomac Interceptor Long Term Odor Control projects. This will include the establishment of permanent monitoring stations as well as recommendations on how to further reduce Hydrogen Sulfide and related corrosion and odor

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC - 4.16%
 EPA/Fed - 0.00%
 WSSC - 39.16%
 Fairfax - 40.72%
 Loudoun/PI - 15.97%

FY2016 Approved Lifetime Budget	\$9,800,000
FY2017 Approved Lifetime Budget	\$79,273,402
Lifetime Budget Increase/Decrease	\$69,473,402
Allocated Labor as of FY 2015	\$3,888

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	264	1,073	2,139	5,019	777	1,754	4,967	5,399	5,551	5,936	10,578
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	500	1,283	4,684	14,669	507	2,946	8,625	8,884	9,150	8,318	11,012	8,695

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: N7 - Potomac Sewer System Rehab.
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: High Profile, Good Neighbor Policy

Phase	Start Date
Design:	Mar 1999
Construction:	May 2000

Project Completion:	Sep 2021
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Project Description:

This project provides odor control, sewer modifications, and rehabilitation of the Potomac Interceptor (PI) system. This project consists of eight jobs to control odors, and rehabilitate and modify manholes, sewer pipe, sewer vents, and other related components of the PI system. Implementation of this project will reduce odor complaints, maintain and restore structural integrity, and maintain the design hydraulic capacity of the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	7.37%	FY2016 Approved Lifetime Budget	\$66,928,455
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$67,626,049
WSSC -	27.74%	Lifetime Budget Increase/Decrease	\$697,594
Fairfax -	36.51%	Allocated Labor as of FY 2015	\$1,787,932
Loudoun/PI -	28.37%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	38,412	1,379	101	197	1,895	4,583	2,231	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	47,779	275	1,025	5,715	12,832	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

3 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: O4 - Southwest Interceptor Inspection/Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Feb 2020
Construction:	Jul 2021

Project Completion:	Jan 2023
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Project Description:

The Southwest Interceptor Rehabilitation project includes the cleaning and localized repair of approximately 5,600 linear feet of the Southwest Interceptor. There are about fifteen known localized defects including broken pipes, holes, various forms of infiltration, and deposits. Investigation of sources of leakage before repairs are implemented will be mandatory and other activities will include repairing service connections and manholes and pre- and post-remediation closed-circuit television (CCTV) inspection. It is noted that the lower portion of this sewer is located under Nationals Stadium.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$4,530,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$4,530,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	48	94	248	2,008	153	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	110	350	4,070	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: O7 - East Rock Creek Diversion Inspect/Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Oct 2024
Construction:	Mar 2026

Project Completion:	Sep 2027
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Project Description:

The East Rock Creek Diversion Sewer provides relief to the Potomac Interceptor and the Rock Creek Main Interceptor. This project includes the inspection and rehabilitation of approximately 18,000 linear feet. Investigation of sources of leakage before repairs are implemented will be mandatory and other activities will include repairing service connections and manholes and pre- and post-remediation closed-circuit television (CCTV) inspection.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$6,600,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,600,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	351	3,392
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	600	6,000

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: OA - West Rock Creek Diversion Inspect/Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Nov 2026
Construction:	Mar 2028

Project Completion:	Sep 2029
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Project Description:

The West Rock Creek Diversion Sewer provides relief to the Rock Creek Main Interceptor. This project includes the inspection and rehabilitation of approximately 9,000 linear feet. Investigation of sources of leakage before repairs are implemented will be mandatory and other activities will include repairing service connections and manholes and pre- and post-remediation closed-circuit television (CCTV) inspection.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$3,900,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,810,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$90,000)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	2,241
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	0	3,810

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IQ - Slash Run Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Nov 2021
Construction:	Mar 2023

Project Completion:	Sep 2024
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Project Description:

This project addresses one of the major sewer rehabilitation projects listed in the 2009 Sewer System Facilities Plan (SSFP). This project is intended to rehabilitate and repair Slash Run sewer as one aspect of the Service Life Improvement Plan

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$10,000,000
Lifetime Budget Increase/Decrease	\$10,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	450	1,846	3,940	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	900	9,100	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: IR - Anacostia Main Interceptor Rehabilitation ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Oct 2022
Construction:	Mar 2024

Project Completion:	Sep 2025
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Project Description:

This project involves the rehabilitation of the Anacostia Main Interceptor (AMI) in three distinct phases as outlined in the 2009 Sewer System Facilities Plan (SSFP). The request is for the first phase of the proposed rehabilitation of the AMI which is located between Benning Road and East Capitol Street, NE (Job IR01). This phase includes the lining of approximately 4,590 linear feet of sewer pipe, hydraulically cleaning the entire line, repairing service connections, manhole rehabilitation and conducting pre- and post-remediation inspections

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$15,000,000
Lifetime Budget Increase/Decrease	\$15,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	1,393	2,800	5,478	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	2,600	12,400	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: JK - Little Falls Rehabilitation Project ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2018
Construction:	Sep 2019

Project Completion:	Mar 2021
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Project Description:

This project to rehabilitate and repair the Little Run Trunk Sewer is one aspect of the Service Life Improvement Program outlined in the 2009 Sewer System Facilities Plan (SSFP). After the inspection, evaluation, and prioritization is completed by the sewer inspection team, sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$4,000,000
Lifetime Budget Increase/Decrease	\$4,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	60	139	1,438	282	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	400	3,600	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: JM - Northwest Major Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Oct 2019
Construction:	Mar 2021

Project Completion:	Sep 2022
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Project Description:

This project consists of combined sewer rehabilitation projects listed in the 2009 Sewer System Facilities Plan (SSFP). The proposed Job JM01 (Northwest Boundary Trunk Sewer (NWBT) Rehabilitation) focuses on reducing inflow and infiltration (I/I) for approximately 7,625 linear feet of NWBT sewer. Efforts will include identifying sources of I/I prior to planning and implementing long-lasting remedial measures. Defective service connections and manholes will also be repaired

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$7,000,000
Lifetime Budget Increase/Decrease	\$7,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	300	1,167	2,387	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	700	6,300	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: PJ - Re-Activation Of Anacostia Force Main ²
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Mar 2020
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Project Description:

This project is to rehabilitate the old AFM so that it can behave as a relief sewer for the 108-inch diameter AFM. The AFM extends 32,700 linear feet (LF) from the Maryland / District border to its terminus near South Capital Street and Firth Sterling Ave, SE and is within National Park Service property (NPS). The AFM carries approximately 244 MGD (1/3 of WSSC's wastewater flow) to Blue Plains. This critical sewer consists largely of pre-stressed concrete cylinder pipe (PCCP) which has a history of failures throughout the industry.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	15.40%
EPA/Fed -	0.00%
WSSC -	84.60%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$20,000,000
Lifetime Budget Increase/Decrease	\$20,000,000
Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
		0	70	221	248	6,264	2,083	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
		0	545	605	1,700	17,150	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

² Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: PU - Easby Point Trunk Sewer
Managing Department: Engineering and Technical Services

Phase	Start Date
Design:	Apr 2021
Construction:	Sep 2022

EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Project Completion:	Mar 2024
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Project Description:

This project is to rehabilitate 9,940 LF of the Easby Point Trunk Sewer. Currently, there is a need to perform a current inspection of these assets as the basis for development of a Condition Assessment Report to commence rehabilitation design. These inspections will evaluate any further deterioration and identify immediate repairs required. This project provides funding for the immediate repairs identified to prevent further deterioration between the current inspection and the proposed rehabilitation (typically at least three years, but possibly longer depending on funding).

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$7,000,000
Lifetime Budget Increase/Decrease	\$7,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	245	492	2,944	548	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	1,200	5,800	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Sanitary Sewer Service Area
Program Title: Sanitary Interceptor/Trunk/Force Sewers
Project ID/Project Title: PV - Broad Branch Trunk Sewer
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Nov 2024
Construction:	Apr 2026

Project Completion:	Sep 2027
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Project Description:

This project is to rehabilitate 18,100 LF of the Broad Branch Trunk and Relief Sewer. Currently, there is a need to perform an inspection of these assets as the basis for development of a Condition Assessment Report to commence rehabilitation design. These inspections will evaluate any further deterioration and identify immediate repairs required. This project provides funding for the immediate repairs identified to prevent further deterioration between the current inspection and the proposed rehabilitation (typically at least three years, but possibly longer depending on funding).

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$13,000,000
Lifetime Budget Increase/Decrease	\$13,000,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	1,246	6,534
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	2,200	10,800

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: AK - WSSC Interconnections
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Dec 2008
Construction:	Jan 2014

Project Completion:

Project Description:

This project entails the upgrade of interconnections between DC Water and WSSC to improve water supply reliability by providing an alternative source of supply during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$1,309,319
FY2017 Approved Lifetime Budget	\$1,063,520
Total DC Water Allocated Labor	\$6,342
Total Project Cost	\$1,069,862

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,064	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,064	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: DF - Rehab 24 Steel Main - Rock Creek
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Jun 2011
Construction:	

Project Completion:

Project Description:

This project provides for the installation of cathodic protection systems on the 24-inch low service steel main under the ramp of the Whitehurst Freeway and Rock Creek in vicinity of K and 30th Streets, NW.

Impact on Operations:

This project will have some impact on the operating budget to maintain the cathodic protection system.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$691,775
FY2017 Approved Lifetime Budget	\$363,693
Total DC Water Allocated Labor	\$12,087
Total Project Cost	\$375,780

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	364	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	364	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: N8 - Small Diameter Water Main Rehab 6
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2009
Construction:	Jan 2010

Project Completion:

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe provided the pipe is in sound condition. It includes the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	26.08%
EPA/Fed -	73.92%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	CLOSED
FY2016 Approved Lifetime Budget	\$11,845,968
FY2017 Approved Lifetime Budget	\$11,738,975
Total DC Water Allocated Labor	\$281,988
Total Project Cost	\$12,020,963

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	11,739	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	11,739	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: BZ - Large Valve Repl. (Contracts 8 - 9 & 10)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2009
Construction:	Feb 2010

Project Completion:	Mar 2017
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Project Description:

Replacement of approximately 60 broken large diameter valves under separate contracts through out the water distribution system. Replacement of inoperable valves will improve the reliability of the system by reducing the number of valves that would need to be closed under emergency conditions. Increasing the number of operable valves in the system will also reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

DC -	55.78%	FY2016 Approved Lifetime Budget	\$12,550,088
EPA/Fed -	44.22%	FY2017 Approved Lifetime Budget	\$12,703,316
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$153,228
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,147,486
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,524	107	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	12,703	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: C9 - Large Diameter Water Mains I
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Jul 2015
Construction:	Apr 2016

Project Completion:	Dec 2020
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Project Description:

This project is to replace/ rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$18,950,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$19,250,668
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$300,668
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$4,553
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	446	1,138	2,111	2,879	4,622	326	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	901	5,880	3,920	8,550	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: DE - Small Diameter Water Main Rehab I2
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Dec 2015
Construction:	Aug 2016

Project Completion:	Jun 2020
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$39,850,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$39,850,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$119,377
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,315	6,997	8,002	2,734	1,552	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,815	11,595	15,050	6,390	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: FI - Small Diameter Water Main Rehab I3
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	May 2016
Construction:	Jul 2017

Project Completion:	Oct 2019
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$23,385,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$32,770,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$9,385,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	108	780	9,303	9,819	215	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,980	7,980	22,810	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: F2 - Small Diameter Water Main Rehab I4
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Mar 2017
Construction:	Aug 2018

Project Completion:	Oct 2020
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$36,423,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$40,470,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$4,047,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	763	740	10,194	11,306	364	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	7,350	12,915	20,205	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: F6 - Steel Water Main Rehab - Phase I
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Sep 2010
Construction:	Aug 2012

Project Completion:	Jun 2020
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Project Description:

This project is to rehabilitate, replace and/or install cathodic protection systems on high priority large diameter steel water mains, where there is a near-term need to mitigate the effects corrosion degradation of these critical pipelines based upon recent evaluations.

Impact on Operations:

This project will have some impact on the operating budget to maintain installed cathodic protection systems.

Effective Funding by User (percent):

DC -	76.84%	FY2016 Approved Lifetime Budget	\$11,709,697
EPA/Fed -	23.16%	FY2017 Approved Lifetime Budget	\$11,954,281
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$244,584
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$681,994
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,971	12	65	211	2,197	1,337	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,944	0	610	5,400	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: FE - 20 Low Service Main & PRV
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jun 2012
Construction:	Oct 2013

Project Completion:	Feb 2017
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Project Description:

This project includes the installation of approximately 4,700 linear feet of 20-inch water main in the Low Service Area and a pressure reducing valve (PRV) between the 1st High and the Low Service Areas. The existing Low Service 20-inch main will be extended from the intersection of 17th and C Streets, NE to the intersection of Potomac Avenue, G Street and Kentucky Avenue, SE where it will connect to the existing Low Service 30-inch water main.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$7,837,619
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,008,289
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$170,670
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$159,052
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	974	2,315	676	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,158	850	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: FT - Water Mains Rehab Phase II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 2017
Construction:	Jan 2019

Project Completion:	Nov 2023
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Project Description:

This project is to replace/ rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

Regular inspections and testing of CP systems would be required in the future, which would impact the operating budget. Temporary outages of large diameter pipelines due to assessment and/or construction activities will require coordination and adju

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$43,850,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$43,850,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$15,028
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	180	369	491	926	3,321	7,846	6,422	5,883	4,233	293	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,550	0	800	1,060	11,400	17,970	40	9,030	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: GQ - Fire Hydrant Replacement Program - Ph II
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Dec 2009
Construction:	Nov 2010

Project Completion:	Dec 2021
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Project Description:

This project provides funding for the replacement and upgrade of fire hydrants in the District. It is expected that approximately 2,700 broken and older model type fire hydrants will be replaced and 2,700 will be upgraded under this project if accepted by The District of Columbia under the October 2007 Memorandum of Understanding. This program is expected to be totally reimbursed by The District Government and will not impact retail rate payers.

Impact on Operations:

This project will have no material impact on the DC Water operating budget, because the maintenance cost of fire hydrants is reimbursed by the District.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$28,244,481
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$28,244,481
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$720,630
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,623	976	182	55	31	18	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	11,373	4,686	2,861	0	2,948	6,160	217	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: GR - Small Diameter Water Main Rehab I5
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2018
Construction:	Sep 2019

Project Completion:	Feb 2022
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$35,775,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$39,750,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$3,975,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	1,296	1,620	7,014	10,990	3,104	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	10,380	29,370	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: GX - Large Dia. Water Main Repl. II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Jun 2023
Construction:	Sep 2024

Project Completion:	Mar 2029
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Project Description:

This project is to replace or rehabilitate large diameter (16-inch and larger) water mains. The objective of this project is to rehabilitate large diameter mains when the pipe is in sound condition or to replace it if the condition warrants.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$23,180,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$23,180,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	55	447	2,205	13,694
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	1,850	21,330	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: HX - Small Diameter Water Main Rehab 16
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2019
Construction:	Sep 2020

Project Completion:	Feb 2023
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$37,350,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$37,350,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	3,324	2,128	6,947	10,895	3,044	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	9,738	27,612	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: 18 - Large Valve Replacement (Contract 11-13)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jun 2012
Construction:	Aug 2014

Project Completion:	Nov 2017
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Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

DC -	83.51%	FY2016 Approved Lifetime Budget	\$18,147,152
EPA/Fed -	16.49%	FY2017 Approved Lifetime Budget	\$18,548,979
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$401,827
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$258,698
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,767	2,801	2,413	165	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	12,843	5,706	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: IB - Large Valve Replacement (Contract 17-19)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	May 2018
Construction:	Oct 2019

Project Completion:	Oct 2023
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Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$20,130,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$20,130,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	39	221	1,572	3,567	3,762	2,353	131	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	550	560	6,550	6,140	6,330	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: J7 - Small Diameter Water Main Rehab 17
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2020
Construction:	Sep 2021

Project Completion:	Feb 2024
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$46,650,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$46,650,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	5,042	2,893	8,964	13,804	3,647	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	13,380	33,270	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: JZ - Large Dia Water Main Repl 3 - 4 & 5
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2021
Construction:	Aug 2022

Project Completion:	Feb 2027
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Project Description:

This project is to replace/ rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$63,710,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$63,710,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	336	1,436	6,740	14,017	15,101	10,652
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	1,720	20,760	21,350	19,880	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: K7 - Large Dia Water Main Repl 6 - 7 & 8
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2024
Construction:	Aug 2025

Project Completion:	Feb 2030
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Project Description:

This project is to replace/ rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$69,920,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$69,920,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	408	1,631	46,819
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	1,880	22,680	45,360

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: KA - Large Valve Repl Contracts 20 - 21 & 22
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	May 2021
Construction:	Oct 2022

Project Completion:	Oct 2026
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Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$17,610,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,610,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	54	306	2,058	4,339	4,294	2,367
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	480	490	5,720	5,380	5,540	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: KB - Large Valve Repl Contracts 23 - 24 & 25
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	May 2024
Construction:	Sep 2025

Project Completion:	Sep 2029
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Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$19,220,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$19,220,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	64	348	13,000
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	520	6,220	12,480

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: KE - Small Diameter Water Main Rehab I 8
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2021
Construction:	Sep 2022

Project Completion:	Feb 2025
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$46,340,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$46,340,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	4,827	3,045	9,674	14,179	3,742	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	12,070	34,270	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: KF - Small Diameter Water Main Rehab I9
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2022
Construction:	Sep 2023

Project Completion:	Feb 2026
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$47,730,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$47,730,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	5,414	3,320	9,968	14,547	3,442
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	12,440	35,290	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: KG - Small Diameter Water Main Rehab 20
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2023
Construction:	Aug 2024

Project Completion:	Feb 2027
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$49,160,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$49,160,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	6,091	3,438	10,347	16,836
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	12,810	36,350	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: KH - Small Diameter Water Main Rehab 21
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2024
Construction:	Aug 2025

Project Completion:	Feb 2028
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$32,236,932
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$50,640,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$18,403,068
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	6,402	3,549	26,972
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	13,190	37,450	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: MU - Small Diameter Water Main Rehab 2
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Aug 2005
Construction:	Jul 2008

Project Completion:	Dec 2015
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants replacement, or to clean and line unlined cast iron pipe provided the pipe is in serviceable condition. Also included is the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program will serve to gradually replace pipe that has exceeded the useful service life, improve available fire flows, and remove corrosion by-products from the inside of the pipe improving water quality and reducing the potential for creation of biofilms and bacteriological activity that can impair the quality of potable water.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$15,043,352
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$15,043,352
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$803,611
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	12,743	586	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	15,043	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: MV - Small Diameter Water Main Rehab 3
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	May 2006
Construction:	Mar 2009

Project Completion:	Jun 2018
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe provided the pipe is in sound condition. It includes the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	49.34%	FY2016 Approved Lifetime Budget	\$15,559,222
EPA/Fed -	50.66%	FY2017 Approved Lifetime Budget	\$15,623,724
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$64,502
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$774,897
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	12,444	88	621	415	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	13,871	1,752	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: MW - Small Diameter Water Main Rehab 4
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Mar 2007
Construction:	Oct 2007

Project Completion:	Oct 2016
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe provided the pipe is in sound condition. It includes the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	77.41%	FY2016 Approved Lifetime Budget	\$7,713,453
EPA/Fed -	22.59%	FY2017 Approved Lifetime Budget	\$7,713,453
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$214,378
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,957	260	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,713	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: MX - Small Diameter Water Main Rehab 5
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Jan 2008
Construction:	Oct 2008

Project Completion:	Dec 2018
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants replacement, or to clean and line unlined cast iron pipe provided the pipe is in serviceable condition. Also included is the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program will serve to gradually replace pipe that has exceeded the useful service life, improve available fire flows, and remove corrosion by-products from the inside of the pipe improving water quality and reducing the potential for creation of biofilms and bacteriological activity that can impair the quality of potable water.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	63.57%	FY2016 Approved Lifetime Budget	\$11,959,141
EPA/Fed -	36.43%	FY2017 Approved Lifetime Budget	\$11,164,643
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$794,498)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$596,150
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	9,030	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	11,165	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: N9 - Small Diameter Water Main Rehab 7
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Aug 2010
Construction:	Jan 2012

Project Completion:	Jan 2016
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants replacement, or to clean and line unlined cast iron pipe provided the pipe is in serviceable condition. Also included is the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program will serve to gradually replace pipe that has exceeded the useful service life, improve available fire flows, and remove corrosion by-products from the inside of the pipe improving water quality and reducing the potential for creation of biofilms and bacteriological activity that can impair the quality of potable water.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	42.45%	FY2016 Approved Lifetime Budget	\$18,880,522
EPA/Fed -	57.55%	FY2017 Approved Lifetime Budget	\$19,002,880
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$122,358
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$945,558
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	16,957	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	19,003	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: NA - Clean & Line 20 4th High Wtrmain
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Nov 2003
Construction:	Mar 2009

Project Completion:	Feb 2017
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Project Description:

This project is to install approximately 2,000 linear feet of 20-inch diameter water main in the 4th High Service Area, to relocate portions of the existing 20-inch cast iron water main from private properties to public space.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$4,529,689
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$4,556,283
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$26,594
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$167,894
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,053	216	75	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,556	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: O0 - Small Diameter Water Main Rehab 8
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Jun 2011
Construction:	Apr 2013

Project Completion:	Jan 2018
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	47.98%	FY2016 Approved Lifetime Budget	\$19,358,248
EPA/Fed -	52.02%	FY2017 Approved Lifetime Budget	\$20,698,646
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$1,340,398
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,303,490
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	19,089	138	102	33	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	20,699	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: OI - Small Diameter Water Main Rehab 9
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Jun 2012
Construction:	Nov 2013

Project Completion:	May 2017
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	88.49%	FY2016 Approved Lifetime Budget	\$24,397,433
EPA/Fed -	11.51%	FY2017 Approved Lifetime Budget	\$24,986,852
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$589,419
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,171,466
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,067	6,868	1,669	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	24,987	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: O2 - Small Diameter Water Main Rehab 10
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Mar 2013
Construction:	Aug 2014

Project Completion:	Nov 2017
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$36,450,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$36,842,024
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$392,024
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,447,961
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,707	9,231	2,534	118	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	32,866	3,976	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: O3 - Small Diameter Water Main Rehab I I
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Dec 2014
Construction:	Sep 2015

Project Completion:	Mar 2018
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe provided the pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, reconfiguration of inefficient alignments, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other similar work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality. The I I b contract consists of replacement of 8-inch water mains at a number of locations.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$37,505,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$38,897,024
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$1,392,024
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$472,750
Loudoun/PI -	0.00%		

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	415	6,754	13,391	1,030	0	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	17,462	21,435	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: S3 - Large Valve Replacement (Contract 3-7)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Jul 1999
Construction:	Jan 2004

Project Completion:	Aug 2018
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Project Description:

This project replaces approximately 100 inoperable large diameter valves throughout the distribution system. This project includes four separate valve replacement contracts. Replacement of inoperable valves will improve the reliability of the system by reducing the number of valves that would need to be closed under emergency conditions. Increasing the number of operable valves in the system will also reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

DC -	61.07%	FY2016 Approved Lifetime Budget	\$23,058,029
EPA/Fed -	38.93%	FY2017 Approved Lifetime Budget	\$23,099,692
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$41,663
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$3,351,665
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	19,920	361	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	23,100	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: S5 - Large Dia Wtrmain Int. Repairs
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2010
Construction:	Mar 2011

Project Completion:	Jun 2016
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Project Description:

This project includes the installation of internal pipe joint repairs to approximately 50,000 linear feet of large diameter water mains with a high frequency of joint leakage. This project also includes the cleaning and lining of approximately 5,000 linear feet of 20-inch cast iron pipe prior to the installation of internal joint seals. This project will eliminate the costly repairs and need to temporarily shutdown these mains to undertake the repairs associated with joint leaks.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	77.97%	FY2016 Approved Lifetime Budget	\$16,770,002
EPA/Fed -	22.03%	FY2017 Approved Lifetime Budget	\$16,972,404
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$202,402
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,115,270
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,645	2,010	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	16,972	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: KI - Small Diameter Water Main Rehab 22
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Apr 2025
Construction:	Aug 2026

Project Completion:	Feb 2029
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Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$52,160,000
Lifetime Budget Increase/Decrease	\$52,160,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	7,371	31,127
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	13,590	38,570

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Distribution Systems
Project ID/Project Title: PK - Large Meter Vault And Piping Improve
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2016
Construction:	Aug 2017

Project Completion:	Feb 2019
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Project Description:

Construction of a large meter vault and piping improvements in the vicinity of Key Bridge to measure the flows in a 16-inch and a 30-inch mains that feed the Pentagon, Arlington Cemetery and the Reagan National Airport

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$980,000
Lifetime Budget Increase/Decrease	\$980,000
Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	15	59	396	120	0	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	100	880	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Lead Program
Project ID/Project Title: BW - Lead Service Replacement Program
Managing Department: Engineering and Technical Services
EPMC: Lead Services Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	Aug 2004
Construction:	Dec 2004

Project Completion:	Jan 2031
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Project Description:

Replacement of approximately 30,050 lead water service lines with copper piping throughout the water distribution system. The Lead Service Replacement Program started in FY2004 and will continue in conjunction with scheduled water main replacement and DDOT road work (new FY2008 policy). This project replaces lead service lines within Public Space and offers the property owner the option to replace the lead service on private property at cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	93.09%	FY2016 Approved Lifetime Budget	\$189,040,000
EPA/Fed -	6.91%	FY2017 Approved Lifetime Budget	\$208,640,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$19,600,000
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$4,203,610
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	138,578	1,575	1,171	870	1,547	2,114	2,507	2,885	3,190	3,129	3,633	1,542
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	152,363	3,327	5,130	4,892	5,277	5,751	6,012	6,288	6,400	6,500	6,700	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: CC - FY2012 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2012

Project Completion:	Jan 2016
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Project Description:

This project is for the FY2012 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$8,281,738
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,281,738
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$58,341
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,008	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,282	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: CP - FY2013 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Nov 2012

Project Completion:	Jan 2016
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Project Description:

This project is for the FY2013 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$8,764,291
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,830,176
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$65,885
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$139,591
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,254	0	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,830	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: D5 - FY2014 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Oct 2013

Project Completion:	Nov 2016
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Project Description:

This project is for the FY2014 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$10,013,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,146,589
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$133,589
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$162,446
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,141	780	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	10,147	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: DG - FY2015 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2015

Project Completion:	Jan 2017
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Project Description:

This project is for the FY2015 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,630,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,630,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	554	1,721	474	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	9,630	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: DY - FY2016 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jul 2016

Project Completion:	Jun 2017
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Project Description:

This project is for the FY2016 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,630,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,630,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	2,604	2,388	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	9,630	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: FK - FY2017 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2017

Project Completion:	Apr 2018
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Project Description:

This project is for the FY2017 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,630,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,630,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	4,254	1,122	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	9,630	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: GS - FY2018 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2018

Project Completion:	Apr 2019
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Project Description:

This project is for the FY2018 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,630,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,630,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	4,184	1,219	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	9,630	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: HY - FY2019 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Dec 2018

Project Completion:	Apr 2020
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Project Description:

This project is for the FY2019 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,630,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,630,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	5,092	664	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	9,630	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: JA - FY2020 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Dec 2019

Project Completion:	Apr 2021
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Project Description:

This project is for the FY2020 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,630,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,630,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	5,268	663	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	9,630	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: KW - FY2021 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2021

Project Completion:	Apr 2022
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Project Description:

This project is for the FY2021 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,630,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,630,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	5,053	952	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	9,630	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: KX - FY2022 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2022

Project Completion:	Apr 2023
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Project Description:

This project is for the FY2022 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,664,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,664,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	4,848	911	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	9,664	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: KY - FY2023 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2023

Project Completion:	Apr 2024
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Project Description:

This project is for the FY2023 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$10,150,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,150,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	4,968	915	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	10,150	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: KZ - FY2024 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2024

Project Completion:	Apr 2025
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Project Description:

This project is for the FY2024 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$10,451,700
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$10,451,700
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	5,255	952	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	10,452	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water On-Going Projects
Project ID/Project Title: LI - FY2025 - DWS Water Projects
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Jan 2025

Project Completion:	Mar 2026
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Project Description:

This project is for the FY2025 annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system. Job numbers will be issued to identify the location of projects.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$10,780,000
Lifetime Budget Increase/Decrease	\$10,780,000
Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	5,386	872
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	0	10,780	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: AY - Upgrades to Ft. Reno Pumping Station
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Jun 2009
Construction:	May 2011

Project Completion:	Oct 2018
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Project Description:

This project includes the replacement of pump controls, three existing Variable Frequency Drives, electrical switchgear and motor control centers, along with upgrades to the SCADA system at Fort Reno Pumping Station. The improvements also include the installation of: a surge suppression system at the Fort Reno Pumping Station; an altitude valve on Fort Reno Tank No. 2; installation of redundant instrumentation; security system upgrades; and 28 remote pressure monitoring stations at critical locations in the system to allow operators to monitor pressures in the distribution system. The main benefit of this project is increased pressures and improved system reliability supplying water to the 4th High Service Area west of Rock Creek Park.

Impact on Operations:

This project will have no material impact on the operating budget, but will improve system reliability and customer service.

Effective Funding by User (percent):

DC -	76.97%	FY2016 Approved Lifetime Budget	\$13,369,185
EPA/Fed -	23.03%	FY2017 Approved Lifetime Budget	\$13,549,267
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$180,082
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,008,956
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	7,220	1,378	169	386	17	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	12,470	280	799	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: F8 - 16th & Alaska Ave Pump Sta Upgrades
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Jun 2011
Construction:	Sep 2013

Project Completion:	Jun 2017
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Project Description:

This project provides upgrades to the 16th Street and Alaska Avenue Pumping Station to increase reliability and serviceability. Upgrades include: installation of a second suction and discharge headers; new Variable Frequency Drive (VFD) on the existing fourth constant speed pump; replacement of existing VFDs with new solid state equipment; replacement of existing instrumentation and controls with PLC based soft logic controls; installation of redundant instrumentation; security system upgrades; improvements to ventilation system for cooling of the station; and the provision of a second electric feeder to the pumping station.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	76.72%	FY2016 Approved Lifetime Budget	\$4,763,606
EPA/Fed -	23.28%	FY2017 Approved Lifetime Budget	\$4,879,186
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$115,580
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$303,041
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,902	325	51	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,849	30	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: FD - Water Fac Security System Upgrades
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 2013
Construction:	Aug 2014

Project Completion:	Dec 2019
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Project Description:

This project is to upgrade security systems at the following facilities: Bryant Street Pumping Station, Soldiers Home Reservoir, Brentwood Reservoir, Anacostia Tank No. 1 (Boulevard Tank), Anacostia Tank No. 2 (Good Hope Tank) and Fort Stanton Reservoirs Site and Fort Reno Site.

Impact on Operations:

This project will have no material impact on the operating budget, however minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$2,025,516
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,067,179
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$41,663
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$23,995
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	767	13	30	23	14	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,067	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: FH - Discharge Piping Bryant St. Pump Sta
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Jun 2009
Construction:	Sep 2012

Project Completion:	Jun 2018
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Project Description:

This project provides for the replacement of six discharge pipes from the Bryant Street Pumping Station that are highly corroded. The discharge piping will be replaced from the cone valves inside the station to a point on Bryant Street away from the station site, to reduce the probability of a catastrophic pipe break next to the station wall and foundation.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$13,908,391
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$14,279,349
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$370,958
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$960,827
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	12,271	263	117	9	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	14,279	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: HA - DWS Water Pumping Project
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Jul 2016
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Project Description:

This project will support the Department of Water Services Pumping Department maintenance program. Large, expensive, and long lived equipment needs to be periodically replaced due to wear or premature failure. Major pumps, motors, valves and related equipment will be replaced in each of the department's four pump stations as needed

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$1,560,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$1,560,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$5,984
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	582	352	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,560	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: HV - Bryant St PS - Spill Header Flow Control
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Dec 2013
Construction:	Jun 2016

Project Completion:	Nov 2017
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Project Description:

This project is to install seven actuated spillover Pressure Reducing Valves (PRVs) with flowmeter capabilities to replace existing manually operated PRVs that control spillover flow into the low service area, and to replace 24 globe valves with motor operated butterfly valves to allow full automation and remote control of the spillage header. The metering capability will allow operation to control flow being spilled into the 1st High, 2nd High and/or the low zones area more effectively.

Impact on Operations:

This project will have no material impact on the operating budget. However, the new flow meters will require regular maintenance causing some increase in the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$6,312,166
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,501,661
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$189,495
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$129,816
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	510	263	2,235	227	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	762	5,740	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: JB - Bryant Street PS Improvements - Ph II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Apr 2012
Construction:	Sep 2013

Project Completion:	Aug 2018
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Project Description:

This project provides for improvements to HVAC systems at the Bryant Street Pumping Station and the Warehouse and Meter Shop Buildings to address system deficiencies and improve working conditions for the staff residing within these buildings. The HVAC improvements include some structural and controls modifications to the office space in the Warehouse and Meter Shop building. This project also provides for: replacement of the parking deck wearing surface and roof membrane and removal and reconstruction of top portions of the walls at the Warehouse and Shops building, and repair or replacement of select structural roof members, windows, gutters, flashing, sealant, roofing slate and masonry façade at the Bryant Street PS building.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$11,157,240
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$11,350,749
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$193,509
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$146,616
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	881	538	2,145	2,548	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,326	3,505	6,520	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: LT - Water System SCADA
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Aug 2016
Construction:	Jan 2018

Project Completion:	Oct 2020
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Project Description:

This project implements recommendations of the 2013 SCADA Master Plan. It is to add additional sites and also optimize the existing Water SCADA System. The initial focus will be to develop standards, implement changes needed for existing SCADA sites to conform to the standards, and perform system-wide testing to promote reliable monitoring and control of water system SCADA sites. New sites will be added such as: tanks, reservoirs, zone pressure monitoring, distribution valve monitoring, and water quality monitoring. In the future a fully optimized SCADA will move water operations from an operator-based automation system to a centralized computer decision system that forecasts demand and continuously calculates optimal system settings within established operating constraints. This is the direction envisioned in the SCADA Master Plan.

Impact on Operations:

The primary purpose of the SCADA System is to monitor the health of the distribution system and control water system equipment in order to meet water quality requirements and customer needs. Water and sewer operators need to understand alarms and see

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

FY2016 Approved Lifetime Budget	\$8,000,000
FY2017 Approved Lifetime Budget	\$8,137,036
Lifetime Budget Increase/Decrease	\$137,036
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	137	289	257	575	2,063	1,564	130	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	701	600	0	6,836	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: LU - Water Facilities Security Sys Upgrades 2
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	Feb 2017

Project Completion:	Feb 2022
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Project Description:

This project is to upgrade security systems at water pumping stations, water storage reservoirs and elevated tanks, and other water distribution system structures and sites. Work consists of installing CCTV cameras, access card readers, intrusion sensors, fencing, network and communications, and other control surveillance devices and systems to protect the water facilities and infrastructure against vandalism, criminal activity, and possible future terrorism; as well as to protect DC Water personnel in accordance with the recommendations of the Vulnerability Assessment (VA) Study

Impact on Operations:

This project will have no material impact on the operating budget, however minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$2,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$2,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	37	173	360	344	189	102	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	2,000	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: M6 - Rehab. Bryant St. Pump Sta.
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Mar 1999
Construction:	Mar 2002

Project Completion:	Dec 2015
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Project Description:

This project is to rehabilitate and upgrade the Bryant Street Pumping Station and the warehouse and shops building to meet current code requirements and maintain the reliability of the water distribution system. Project includes refurbishing 11 high lift pumps and replacing 11 electric motors mechanically coupled to the pumps; architectural improvements to the building; complete replacement of the heating, cooling and ventilating equipment; site improvements, dewatering, hydraulic loops; replacement of water mains at the site; and cathodic protection for a 48-inch steel water main. Also included in this project is some SCADA work for the water distribution system installed by DC Water IT services.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	71.47%	FY2016 Approved Lifetime Budget	\$62,854,045
EPA/Fed -	28.53%	FY2017 Approved Lifetime Budget	\$62,895,708
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$41,663
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$2,289,100
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	61,064	281	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	62,896	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: M7 - Replacement of Anacostia PS
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: High Profile, Good Neighbor Policy

Phase	Start Date
Design:	Apr 2004
Construction:	Mar 2007

Project Completion:	Nov 2024
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Project Description:

This project is to replace the 85 year old Anacostia Pumping Station to meet code requirements, add pumps for the new Anacostia First High South Service Area and maintain the reliability of the Anacostia 1st and 2nd High Service Area distribution system. It includes the installation of 3,000 feet of 30-inch water main to link the Anacostia Pumping Station to the Anacostia 1st High South Service Area. The new Pumping Station will have a capacity of 60 MGD and will be constructed on the same site as the original Pumping Station, which will remain in service until the new facility is completed and operational.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	47.36%	FY2016 Approved Lifetime Budget	\$32,782,311
EPA/Fed -	52.64%	FY2017 Approved Lifetime Budget	\$33,433,974
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$651,663
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$1,087,114
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	32,430	131	43	269	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	32,824	80	530	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: HI - Bryant Street Pump Station Phase III
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	Oct 2021
Construction:	Mar 2023

Project Completion:	Sep 2024
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Project Description:

This project provides for miscellaneous improvements and upgrades at the Bryant Street Pump Station. The proposed work includes, but is not limited to the following: pump control board upgrades; HVAC improvements, and replacement of roll-up doors and windows in the Pump Room; replacement of incandescent lights throught the building with CFD/Halogen lighting systems; and fllor drain improvements in the discharge piping area.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$5,920,000
Lifetime Budget Increase/Decrease	\$5,920,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	45	93	221	1,149	2,837	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	220	0	520	5,180	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: HR - Anacostia Pump Sta Improvements Ph II
Managing Department: Engineering and Technical Services
EPMC:
Priority: High Profile, Good Neighbor Policy

Phase	Start Date
Design:	Feb 2022
Construction:	Jul 2023

Project Completion:	Dec 2024
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Project Description:

This project provides for electrical, mechanical and instrumentation improvements at the Anacostia Pump Station. It also includes other miscellaneous improvements and repairs for the gratings, stairs and roof, and addresses the problem of rainwater infiltration at the lower level

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$4,700,000
Lifetime Budget Increase/Decrease	\$4,700,000
Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	46	171	362	2,471	432	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	180	350	4,170	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: OR - Fort Reno PS Improvements Ph II
Managing Department: Engineering and Technical Services
EPMC:
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	Apr 2022
Construction:	Sep 2023

Project Completion:	Mar 2025
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Project Description:

This project provides for the replacement of pumps, motors, and VFD equipment at the Fort Reno Pump Station, along with other mechanical and electrical improvements.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$6,430,000
Lifetime Budget Increase/Decrease	\$6,430,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	53	191	314	3,160	1,077	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	240	480	5,710	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Pumping Facilities
Project ID/Project Title: PS - Existing Water Facilities Bldg Optimization
Managing Department: Engineering and Technical Services
EPMC:
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	Oct 2019

Project Completion:	Dec 2021
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Project Description:

To meet EPA guidelines for energy efficiency, water efficiency, sustainable buildings, renewable energy, safety requirements, and environmental management systems. All DC Water buildings, supporting water distribution should be upgraded to an integrated electronic Building Automation System for proper performance and remote control monitoring related with HVAC, Plumbing Elevators, Life Safety Equipment. Water Distribution Buildings requiring upgrades following by individual cost are : Bryant Street Pumping Station, Anacostia Pumping Station and Fort Reno Pumping Station. DFS is requesting project to be funded.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

DC -	100.00%
EPA/Fed -	0.00%
WSSC -	0.00%
Fairfax -	0.00%
Loudoun/PI -	0.00%

	NEW
FY2016 Approved Lifetime Budget	
FY2017 Approved Lifetime Budget	\$695,000
Lifetime Budget Increase/Decrease	\$695,000
Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	153	236	50	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	695	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: DDOT Water Projects
Project ID/Project Title: B0 - FY2010 - DDOT Water Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	Nov 2004

Project Completion:	Apr 2018
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Project Description:

This project is the annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by DDOT. This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$17,171,132
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$17,171,132
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$240,766
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	13,920	158	10	2	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	17,171	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: DDOT Water Projects
Project ID/Project Title: BN - FY2011 - DDOT Water Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	Oct 2010

Project Completion:	Mar 2018
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Project Description:

This project is for the FY2011 annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$8,738,342
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$8,738,342
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$706,142
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,363	381	413	134	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,738	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: DDOT Water Projects
Project ID/Project Title: CJ - FY2012 - DDOT WATER PROJECTS
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	Jul 2011

Project Completion:	Aug 2018
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Project Description:

This project is for the FY2012 annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$6,473,738
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$6,473,738
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$52,564
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	966	219	204	252	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	6,474	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: DDOT Water Projects
Project ID/Project Title: CM - FY2013 - DDOT Water Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

Phase	Start Date
Design:	
Construction:	Oct 2013

Project Completion:	Nov 2016
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Project Description:

This project is for the FY2013 annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$1,483,414
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$1,549,299
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$65,885
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$14,961
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	269	135	0	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	1,549	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Storage Facilities
Project ID/Project Title: FA - Water Storage Facility Upgrades
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Health Safety

Phase	Start Date
Design:	Dec 2008
Construction:	Jan 2010

Project Completion:	Apr 2020
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Project Description:

This project consists of replacing the expansion joint material, concrete floor slab and wall repairs within the Fort Stanton Reservoir No.2 to minimize the current leakage and repair the damage caused by an embankment failure. This project also includes electrical, instrumentation upgrades / improvements, venting modifications and reconfiguration of the drain / overflow piping and installation of impermeable membranes over three underground water storage reservoirs as required by EPA. Future upgrades / improvements to the storage facilities based upon planned inspection / assessments conducted every three years are also covered under this project.

Impact on Operations:

This project will have no material impact on the operating budget. However, a portion of this project (Job FA01) will reduce water loss, thus slowing the growth in water purchase costs.

Effective Funding by User (percent):

DC - 86.58%
 EPA/Fed - 13.42%
 WSSC - 0.00%
 Fairfax - 0.00%
 Loudoun/PI - 0.00%

FY2016 Approved Lifetime Budget	\$31,230,895
FY2017 Approved Lifetime Budget	\$31,607,120
Lifetime Budget Increase/Decrease	\$376,225
Allocated Labor as of FY 2015	\$1,046,507

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	7,145	4,729	1,168	1,150	4,831	989	0	0	0	0	0	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
	18,837	780	250	8,800	2,940	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Storage Facilities
Project ID/Project Title: HW - Rehabilitation of Elevated Water Tanks
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Apr 2020
Construction:	Sep 2021

Project Completion:	Feb 2025
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Project Description:

This project consists of rehabilitation of the coating systems for: Anacostia Tank No. 1 (Boulevard Tank), Anacostia Tank No. 2 (Good Hope Tank), and Fort Reno Tank 2.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$7,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$7,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	102	305	777	2,188	1,343	557	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	580	6,420	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Storage Facilities
Project ID/Project Title: MA - St. Elizabeth Water Tank
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: High Profile, Good Neighbor Policy

Phase	Start Date
Design:	Nov 2010
Construction:	Jul 2014

Project Completion:	Sep 2019
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Project Description:

The project includes the construction of a 2.0 million gallon elevated water storage tank. The new storage tank will provide additional potable water storage for the Anacostia 1st High South service area, increasing pressures to the higher elevation areas and improving fire protection in the distribution system served by this storage tank. St. Elizabeth's Hospital has agreed to allow the tank to be located on the Hospital complex as this new facility will improve the reliability of the Hospital's water supply system.

Impact on Operations:

New tank will require periodic (10 to 15 years) maintenance involving painting.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$36,492,338
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$36,883,372
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$391,034
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$359,417
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	4,846	3,477	7,165	2,158	1,813	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	26,127	3,831	0	6,925	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Storage Facilities
Project ID/Project Title: MQ - 2MG 4th High Storage Tank
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	May 2018
Construction:	Oct 2019

Project Completion:	Sep 2021
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Project Description:

This project includes the siting and feasibility study, design and construction for the future construction of a 2.0 million gallon storage tank to supply the 4th High Service Area on the west side of Rock Creek Park. This area does not have any usable storage and all water supply comes from the Fort Reno Pumping Station. The objective of the storage tank is to provide a source of supply should there be a failure of the pumping station, and provide storage capacity to improve the reliability of the water supply to this portion of the 4th High Service Area.

Impact on Operations:

New elevated water storage tank will require periodic (10 to 15 years) maintenance causing an increase on the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$9,465,558
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$9,579,755
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$114,197
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$21,917
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	443	813	258	118	422	1,447	1,731	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,330	1,200	0	1,060	0	4,990	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Storage Facilities
Project ID/Project Title: MR - 2nd High Water Storage
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	Oct 2018
Construction:	Mar 2020

Project Completion:	Mar 2022
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Project Description:

This project includes the siting and feasibility study, design and construction of a water storage reservoir in the 2nd High Service Area east of Rock Creek Park. The reservoir will address storage deficiency and improve system reliability within the 2nd High service area located in northwest and northeast sections north of Florida Ave and Rhode Island Ave and south of Missouri Ave. The existing Van Ness reservoir (Washington Aqueduct facility) has capacity to supply 65% of the average daily usage in the 2nd High Service Area. The additional storage will provide flexibility to undertake routine maintenance of the existing and proposed reservoirs. In addition, a second reservoir in the area will allow taking one of the reservoirs out of service without having to pump into a closed system.

Impact on Operations:

New potable water reservoir will require periodic maintenance causing some increase in the operating budget.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$16,526,400
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$16,764,206
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$237,806
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$15,031
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	971	496	524	0	355	1,241	5,546	1,682	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	3,059	0	0	0	1,060	12,645	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Service Area Program Mgmt
Project ID/Project Title: KV - Water Program Mgt. Services 2F
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Apr 2024
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Project Description:

This project is to provide engineering program management services for the water system capital improvements program (CIP), to develop a comprehensive water distribution system hydraulic model and run model simulations for evaluation of capital improvement alternatives; to perform pipe condition assessments of pipelines; to assess the potable water storage and pumping needs; to investigate alternatives to eliminate low water pressures; improve water quality in the distribution system; provide reliable and adequate fire protection; to perform conceptual design of proposed capital projects; and to develop a comprehensive facilities plan for incorporation into the capital improvements program. It also includes developing scopes of work, preparing cost estimates, negotiating task orders and reviewing design submittals for the implementation of the capital improvement program.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC - 100.00%
EPA/Fed - 0.00%
WSSC - 0.00%
Fairfax - 0.00%
Loudoun/PI - 0.00%

FY2016 Approved Lifetime Budget	\$30,610,000
FY2017 Approved Lifetime Budget	\$30,610,000
Lifetime Budget Increase/Decrease	\$0
Allocated Labor as of FY 2015	\$0

	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Disbursements Budget	0	0	0	0	1,598	3,916	6,218	6,471	4,221	2,324	0	0
Commitments Budget	0	0	0	0	30,610	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Service Area Program Mgmt
Project ID/Project Title: LB - Water Program Mgt. Services 2G
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	May 2029
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Project Description:

This project is to provide engineering program management services for the water system CIP, to develop a comprehensive water distribution system hydraulic model and run model simulations for evaluation of capital improvement alternatives; to perform Pipe Condition Assessments of pipelines; to assess the potable water storage and pumping needs; to investigate alternatives to eliminate low water pressures; improve water quality in the distribution system; provide reliable and adequate fire protection; to perform conceptual design of proposed capital projects; and to develop a comprehensive facilities plan for incorporation into the CIP. It also includes developing scopes of work, preparing cost estimates, negotiating task orders and reviewing design submittals for the implementation of the CIP.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$35,480,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$35,480,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	1,935	4,616	19,948
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	0	0	0	0	0	0	0	0	35,480	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Service Area Program Mgmt
Project ID/Project Title: LQ - Water Service Area Asset Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2020
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Project Description:

This project is to implement a comprehensive Asset Management program for Water Services and WSPM. The program consists of a variety of elements, including but not limited to technology and data, maintenance and work management, reliability and condition assessment and asset life cycle management activities. Asset Management implementation is expected to take place over a five year period.

Impact on Operations:

Additional operating/maintenance costs will be required, but greater savings through improved asset life cycle costing is anticipated.

Effective Funding by User (percent):

DC -	77.25%	FY2016 Approved Lifetime Budget	\$5,000,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$5,000,000
WSSC -	17.45%	Lifetime Budget Increase/Decrease	\$0
Fairfax -	3.47%	Allocated Labor as of FY 2015	\$74,295
Loudoun/PI -	1.83%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	2,124	973	978	0	0	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	5,000	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2016 - FY 2025

Service Area Title: Water Service Area
Program Title: Water Service Area Program Mgmt
Project ID/Project Title: ME - Water Sys Program Management Services
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	May 2019
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Project Description:

This project is to provide engineering program management services for the water system CIP, to develop a comprehensive water distribution system hydraulic model and run model simulations for evaluation of capital improvement alternatives; to perform pipe condition assessments of pipelines; to assess the potable water storage and pumping needs; to investigate alternatives to eliminate low water pressures; improve water quality in the distribution system; provide reliable and adequate fire protection; to perform conceptual design of proposed capital projects; and to develop a comprehensive facilities plan for incorporation into the CIP. It also includes developing scopes of work, preparing cost estimates, negotiating task orders and reviewing design submittals for the implementation of the CIP.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$36,562,879
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$30,112,581
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$6,450,298)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$411,968
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	8,361	4,316	5,517	5,096	3,444	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	30,113	0	0	0	0	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4830 - Maintenance Cap Eq
Managing Department: Maintenance Services
EPMC: N/A
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are for rehabilitating and replacing large wastewater treatment process equipment (pumps, electric motors, centrifuges, screens, and membrane diffusers) throughout Blue Plains.

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$48,635,000
EPA/Fed -	FY2017 Approved Lifetime Budget	\$30,750,000
WSSC -	Lifetime Budget Increase/Decrease	(\$17,885,000)
Fairfax -	Allocated Labor as of FY 2015	\$0
Loudoun/PI -		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	3,000	3,250	3,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	3,000	3,250	3,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4710 - Operations Cap Eq
Managing Department: Wastewater Treatment
EPMC: N/A
Priority: Good Engineering, Low pay back, Mission / Function over long term
Project Description:
 These funds are for the purchase of laboratory equipment and devices at Blue Plains.
Impact on Operations:
 These purchases will have no material impact on the operating budget.

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$1,410,000
EPA/Fed -	FY2017 Approved Lifetime Budget	\$1,400,000
WSSC -	Lifetime Budget Increase/Decrease	(\$10,000)
Fairfax -	Allocated Labor as of FY 2015	\$0
Loudoun/PI -		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	140	140	140	140	140	140	140	140	140	140	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	140	140	140	140	140	140	140	140	140	140	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4730 - Process Engineering Cap Eq
Managing Department: Process Engineering
EPMC: N/A
Priority: Potential Failure/Ability to continue meeting permit requirement

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are for rehabilitating and replacing equipment and technology related to Blue Plains process control including actuators, flow meters, programmable logic controllers, and process computer control system.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$6,560,000
EPA/Fed - WSSC - Fairfax - Loudoun/PI -	FY2017 Approved Lifetime Budget	\$6,754,000
	Lifetime Budget Increase/Decrease	\$194,000
	Allocated Labor as of FY 2015	\$0

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	500	1,585	1,170	500	500	500	500	500	500	500	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	500	1,585	1,170	500	500	500	500	500	500	500	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP2410 - FAB Cap Eqp
Managing Department: Finance, Accounting & Budget
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are to support Finance, Accounting and Budget with specific programs geared to facilitate data gathering and information dissemination. Active projects are related to Payroll system upgrades.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$2,822,000
EPA/Fed -	FY2017 Approved Lifetime Budget	\$915,000
WSSC -	Lifetime Budget Increase/Decrease	(\$1,907,000)
Fairfax -	Allocated Labor as of FY 2015	\$0
Loudoun/PI -		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	715	0	0	0	67	67	67	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	715	0	0	0	67	67	67	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP2411 - IT & Authority-wide Reserve Cap Eqp
Managing Department: Finance, Accounting & Budget
EPMC: N/A
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds represent Finance Account Budget's reserve to support the various capital equipment needs throughout DC Water as well as enterprise technology projects as approved by the IT Local Steering Committee.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$20,895,000
EPA/Fed -	FY2017 Approved Lifetime Budget	\$69,901,021
WSSC -	Lifetime Budget Increase/Decrease	\$49,006,021
Fairfax -	Allocated Labor as of FY 2015	\$0
Loudoun/PI -		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	17,096	18,462	8,803	11,059	2,414	2,414	2,414	2,414	2,414	2,414	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	17,096	18,462	8,803	11,059	2,414	2,414	2,414	2,414	2,414	2,414	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4610 - Sewer Cap Eq
Managing Department: Sewer Services
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are for rehabilitating and replacing equipment outside of Blue Plains in the underground wastewater collection system. Equipment, divided into three areas, includes: sewer utility (pipes/fittings, manhole covers/frames, pumps, flow meters, catch basins); sewer camera; and trenchless (cured-in-place pipe, locators, emergency generators).

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$3,575,500
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$3,345,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$230,500)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	400	400	400	400	400	400	240	235	235	235	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	400	400	400	400	400	400	240	235	235	235	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4410 - Water Cap Eq
Managing Department: Water Services
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are for rehabilitating and replacing equipment outside of Blue Plains in the underground water distribution system. Equipment includes water mains, service lines, valves, water sample lab equipment and backflow preventers.

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$4,020,500
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$4,000,000
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$20,500)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	400	400	400	400	400	400	400	400	400	400	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	400	400	400	400	400	400	400	400	400	400	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EMI - Automated Meter Reading
Managing Department: Customer Service
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

This project funds the ongoing replacement of residential and commercial water meters and related automated reading equipment. Equipment in this program does not include meters being replaced as part of the Lead Service Replacement Program.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future which may result in inaccurate water billing.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$36,198,154
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$50,746,929
WSSC -	0.00%	Lifetime Budget Increase/Decrease	\$14,548,775
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	17,705	7,384	6,707	6,345	5,672	1,156	1,156	1,156	1,156	1,156	1,156	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	17,705	7,384	6,707	6,345	5,672	1,156	1,156	1,156	1,156	1,156	1,156	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4210 - DDCS Cap Eq
Managing Department: Distribution & Conveyance Systems
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are for rehabilitating and replacing equipment outside of Blue Plains in the above ground water and sewer systems. Equipment includes portable pumps, large pumps, emergency generators, flow meters, SCADA hardware, and fire hydrant custodial locks.

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$3,433,500
EPA/Fed - WSSC - Fairfax - Loudoun/PI -	FY2017 Approved Lifetime Budget	\$3,176,500
	Lifetime Budget Increase/Decrease	(\$257,000)
	Allocated Labor as of FY 2015	\$0

Disbursements Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	400	400	400	400	400	400	158	158	203	259	0
Commitments Budget	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	400	400	400	400	400	400	158	158	203	259	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP2110 - IT Cap Eq
Managing Department: Information Technology
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are to support IT infrastructure projects. Activities include desktop replacements, cabling, radios, uninterruptible power system, server hardware, SCADA core switches, VOIP upgrades and document imaging system.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$19,026,600
EPA/Fed -	FY2017 Approved Lifetime Budget	\$8,748,000
WSSC -	Lifetime Budget Increase/Decrease	(\$10,278,600)
Fairfax -	Allocated Labor as of FY 2015	\$0
Loudoun/PI -		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	2,970	2,165	2,258	1,355	0	0	0	0	0	0	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	2,970	2,165	2,258	1,355	0	0	0	0	0	0	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP5610 - Fleet Mgmt. Cap Eqp
Managing Department: Fleet Management
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are for purchases of Authority-wide vehicles, buses, vac trucks, boats, backhoes, cranes, trailers, forklifts and other large equipment.

Impact on Operations:

New replacement vehicles should result in lower repair costs.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$18,417,670
EPA/Fed -	FY2017 Approved Lifetime Budget	\$18,448,600
WSSC -	Lifetime Budget Increase/Decrease	\$30,930
Fairfax -	Allocated Labor as of FY 2015	\$0
Loudoun/PI -		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	4,921	3,929	2,411	2,063	1,300	1,200	1,000	625	500	500	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	4,921	3,929	2,411	2,063	1,300	1,200	1,000	625,500	500	500	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP3410 - Facilities Mgmt. Cap Eq
Managing Department: Facilities Management
EPMC: N/A
Priority: Good Engineering, Low pay back, Mission / Function over long term

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are to support rehabilitation or replacement handled by Facilities Management within and outside of Blue Plains. These activities, divided into three areas, include: mechanical (HVAC, fire suppression, elevator, plumbing, rollup doors); equipment (photocopiers, appliances, furniture, fixtures, signage); and projects (roofing, general improvements).

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

DC - Joint Use - Indirect Cost	FY2016 Approved Lifetime Budget	\$9,761,900
EPA/Fed -	FY2017 Approved Lifetime Budget	\$7,676,000
WSSC -	Lifetime Budget Increase/Decrease	(\$2,085,900)
Fairfax -	Allocated Labor as of FY 2015	\$0
Loudoun/PI -		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,300	1,300	1,300	1,300	625	359	339	492	349	312	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	1,300	1,300	1,300	1,300	625	359	339	492	349	312	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2016 - FY 2025

Service Area Title: Washington Aqueduct
Program Title: Washington Aqueduct
Project ID/Project Title: WAD - Washington Aqueduct Capital Projects
Managing Department: Washington Aqueduct
EPMC: N/A
Priority: Multiiple, Primarily Good Engineering, High pay back, Mission / Function

Phase	Start Date
Design:	
Construction:	

Project Completion:	Sep 2025
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Project Description:

These funds are for capital projects related to Washington Aqueduct's water treatment system. Capital projects include improvements to water treatment plants (Dalecarlia and McMillian), appurtenant transmission and storage facilities, pumping station (Dalecarlia), and alternative treatment methods.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC -	100.00%	FY2016 Approved Lifetime Budget	\$296,972,000
EPA/Fed -	0.00%	FY2017 Approved Lifetime Budget	\$108,208,825
WSSC -	0.00%	Lifetime Budget Increase/Decrease	(\$188,763,175)
Fairfax -	0.00%	Allocated Labor as of FY 2015	\$0
Loudoun/PI -	0.00%		

Disbursements	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	10,838	10,838	10,838	10,888	11,018	11,199	11,184	11,054	10,816	9,537	0
Commitments	Pre FY 2016	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Post FY 2025
Budget	0	10,838	10,838	10,838	10,888	11,018	11,199	11,184	11,054	10,816	9,537	0

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)



OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section VI CAPITAL FINANCING, CASH AND DEBT



\$ in thousands

Sources of Funds

	Amount	Percentage
Debt Financing ⁽¹⁾	\$ 1,782,722	48.0%
Wholesale Capital Payments	659,889	17.7%
EPA Grants & CSO Appropriations	201,162	5.4%
Interest Income on Bond Proceeds	14,351	0.4%
Pay-Go Financing ⁽²⁾	1,059,708	28.5%
Total Sources	\$ 3,717,831	100%

⁽¹⁾ Debt financing refers to the borrowing of funds through long-term revenue bonds, commercial paper and other short-term

⁽²⁾ Pay-go financing is any funds available after meeting the reserves and rate stabilization fund deposits

\$ in thousands

Capital Improvement Program

FY 2015 - FY 2017

	FY 2015 Actual	FY 2016 Approved	FY 2016 Revised	FY 2017 Approved
Sources				
Beginning Balance	\$ 309,033	\$ 297,671	\$ 68,443	\$ 113,337
New Debt Proceeds / Commercial Paper/ EMCP ⁽¹⁾	50,000	250,000	454,453	300,000
Proceeds for Notes pay - off			(112,000)	-
Pay-Go Financing	84,052	49,558	82,548	78,725
EPA Grants	21,819	67,169	27,244	22,129
CSO Appropriations ⁽²⁾	46,336	10,126	14,000	-
Wholesale Customer Capital Payments	145,394	98,289	126,693	97,321
Interest Income	977	550	998	2,415
Total Sources	\$ 657,611	\$ 773,363	\$ 662,379	\$ 613,927
Uses				
Water Projects	\$ 64,861	\$ 67,546	\$ 61,878	\$ 62,537
WasteWater Treatment	210,024	149,375	168,637	117,814
Sanitary Sewer Projects	39,363	42,175	34,786	61,144
Combined Sewer & LTCP Projects	246,512	238,703	223,105	151,125
Stormwater Projects	1,374	1,178	1,263	1,430
Non Process Facilities	-	-	9,309	28,613
Washington Aqueduct	11,750	10,864	10,838	10,838
Capital Equipment	9,352	24,810	31,342	29,530
Meter Replacement / AMR / CIS	5,931	14,389	7,884	9,207
Total Uses	\$ 589,167	\$ 549,040	\$ 549,042	\$ 472,238
Sources Minus Uses	\$ 68,444	\$ 224,323	\$ 113,337	\$ 141,689

⁽¹⁾ Commercial Paper and Extendable Municipal Commercial Paper is used for interim financing and capital equipment⁽²⁾ Reflects spend down of a portion of FY 2003 - FY 2014 Congressional appropriations for the CSO LTCP

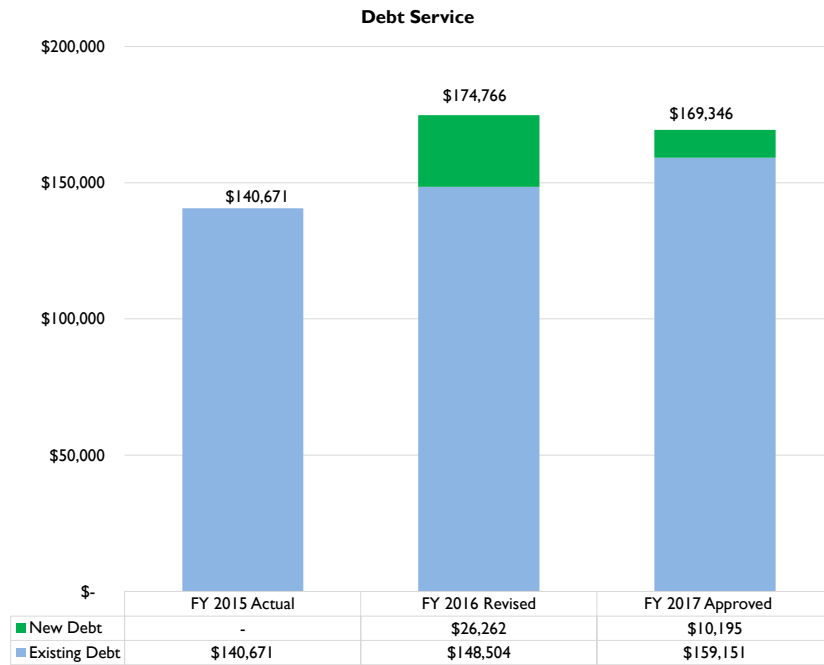
Cash Reserve Summary

\$ in thousands

	FY 2015 Actual	FY 2016 Approved	FY 2016 Revised	FY 2017 Approved
Beginning O&M Reserve Balance (Net of Rate Stabilization Fund)	\$ 157,642	\$ 140,000	\$ 160,055	\$ 140,000
Operating Surplus	111,397	47,282	74,950	78,407
Wholesale Customer Prior Year Billing Reconciliation	(2,483)	(5,500)	(5,500)	(5,000)
Transfer to Rate Stabilization Fund	(17,500)	(4,500)	(19,000)	-
Federal Customer Prior Year Billing Reconciliation	(5,053)	(11,679)	(11,679)	(19,201)
Interest Earned from Bond Proceeds	104	311	247	505
Pay-Go Capital Financing	(84,052)	(25,914)	(59,073)	(54,711)
Ending O&M Reserve Balance (Net of Rate Staiblization Fund)	\$ 160,055	\$ 140,000	\$ 140,000	\$ 140,000
Rate Stabilization Fund	\$ 32,450	\$ 19,450	\$ 51,450	\$ 51,450

Debt Management FY 2015 - FY 2017

\$ in thousands



INTEREST RATE ASSUMPTIONS

Budget Appropriation and Financial Plan

- Variable rate
 - 2.50% for FY 2016 and FY 2017
- Fixed rate
 - 5.50% (FY 2016) and 5.75% (FY 2017)
 - Plus cost of issuance and insurance

CAPITAL FINANCING PLAN

DC Water's comprehensive capital financing plan contains three key goals:

1) minimize cost of capital; 2) increase operational flexibility; and 3) optimize asset/liability matching through:

- Interim financing
- Permanent bond financing
- Pay-Go financing
- Federal grants

SENIOR BOND RATINGS

Aa2	Stable Outlook
AA+	Stable Outlook
AA	Stable Outlook

DEBT SERIES	FY 2015 Actual			FY 2016 Revised			FY 2017 Approved		
	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total
1998*	\$ 13,135	\$ 10,237	\$ 23,372	\$ 13,920	\$ 9,448	\$ 23,368	\$ 14,750	\$ 8,613	\$ 23,363
Series 2009 A	2,801	9,542	12,343	3,495	8,409	11,904	3,815	8,304	12,119
Series 2014 A	-	20,032	20,032	-	16,849	16,849	-	16,849	16,849
WASA Bonds (Senior)	-	-	-	16,992	9,270	26,262	10,195	-	10,195
Jennings Randolph Bonds	-	-	-	375	430	805	387	418	805
Series 2007 A	-	6,623	6,623	5,679	-	5,679	-	5,679	5,679
Series 2008 A	6,190	8,567	14,757	6,600	8,088	14,688	6,735	7,758	14,493
Series 2010 A	414	10,610	11,024	16,315	(5,293)	11,022	-	11,094	11,094
Series 2012 A, B-1, B-2, C	4,750	16,649	21,399	4,915	17,684	22,599	5,140	15,918	21,058
Series 2013 A	-	14,991	14,991	-	14,994	14,994	-	14,994	14,994
Series 2014 B	-	33	33	-	3,253	3,253	-	1,800	1,800
Series 2014 C	492	15,185	15,677	-	17,468	17,468	-	17,468	17,468
Series 2015 A, B	-	-	-	-	-	-	-	17,521	17,521
Capital Equipment Financing	-	-	-	3,375	-	3,375	-	-	-
Commercial Paper	-	421	421	2,500	-	2,500	725	-	725
EMCP	-	-	-	-	-	-	1,183	-	1,183
Total Debt	\$ 27,782	\$ 112,890	\$ 140,671	\$ 74,166	\$ 100,600	\$ 174,766	\$ 42,930	\$ 126,416	\$ 169,346

* Revenue Bond

Outstanding Debt

\$ in thousands

	Interest Rate (%)	Final Maturity	Amount Outstanding
Senior Debt			
Series 1998	5.50 - 6.00	2028	\$ 170,252
Series 2009 A	3.00 - 5.50	2039	156,345
Series 2014 A	481.00%	2114	350,000
Total Senior Debt			\$ 676,597
Subordinate Debt			
Series 2007 A	4.75 - 5.00	2038	\$ 115,580
Series 2008 A	5.00	2034	161,755
Series 2010 A	4.07 - 5.52	2044	300,000
Series 2012 A	3.00 - 5.00	2037	163,655
Series 2012 B-2	N/A	2040	47,310
Series 2012 C	4.00 - 5.00	2033	163,215
Series 2013 A	4.75 - 5.00	2048	300,000
Series 2014 B	N/A	2050	100,000
Series 2014 C	3.00 - 5.00	2044	377,110
Series 2015 A	2.00 - 5.00	2045	100,000
Series 2015 B	5.00 - 5.25	2044	250,000
Government Notes			
Jennings Randolph Reservoir Debt	3.25	2041	\$ 13,216
Commerical Paper Notes ("CP Notes")			
Series C CP Notes (taxable)	0.16 - 0.18	2020	\$ 29,200
Total Subordinate Debt			\$ 2,121,041
Total Debt Outstanding			\$ 2,797,638

DEBT LIMIT: DC Water is not subject to any legal debt limitations. However, prior to any new debt issuance, DC Water must meet an additional bonds test and certify revenue sufficiency

PUBLIC UTILITY SENIOR LIEN REVENUE BONDS: 1) Series 1998, (fixed-rate, Aaa/AAA/AAA, FSA insured, March 1998); and 2) Series 2009A (fixed-rate, Aa3/AA/AA-, January 2009)

PUBLIC UTILITY SUBORDINATE LIEN REVENUE BONDS: 1) Series 2007A (fixed-rate, Aaa/AAA/AAA, FGIC insured, May 2007); and 2) Series 2013A (fixed-rate, Aa3/AA/AA-, July 2013)

PUBLIC UTILITY SUBORDINATE LIEN REVENUE BONDS (FEDERALLY TAXABLE ISSUER SUBSIDY BUILD AMERICA BONDS): 1) Series 2010A (fixed-rate, Aa3/AA-/AA, October 2010)

PUBLIC UTILITY SUBORDINATE LIEN MULTIMODAL REVENUE BONDS: 1) Series 2012B-1 and Series 2012B-2 (SIFMA indexed variable-rate Aa3/AA/AA-, March 2012)

PUBLIC UTILITY SUBORDINATE LIEN REVENUE REFUNDING BONDS: 1) Series 2008A: (refunded Series 2004, fixed-rate, Aaa/AAA/AAA, Assured Guaranty insured, April 2008); 2) Series C taxable commercial paper: (refunded Series 2007B, April 2008); and 3) Series 2012C: (advance refunded Series 2003, fixed-rate, Aa3/AA/AA-, March 2012)

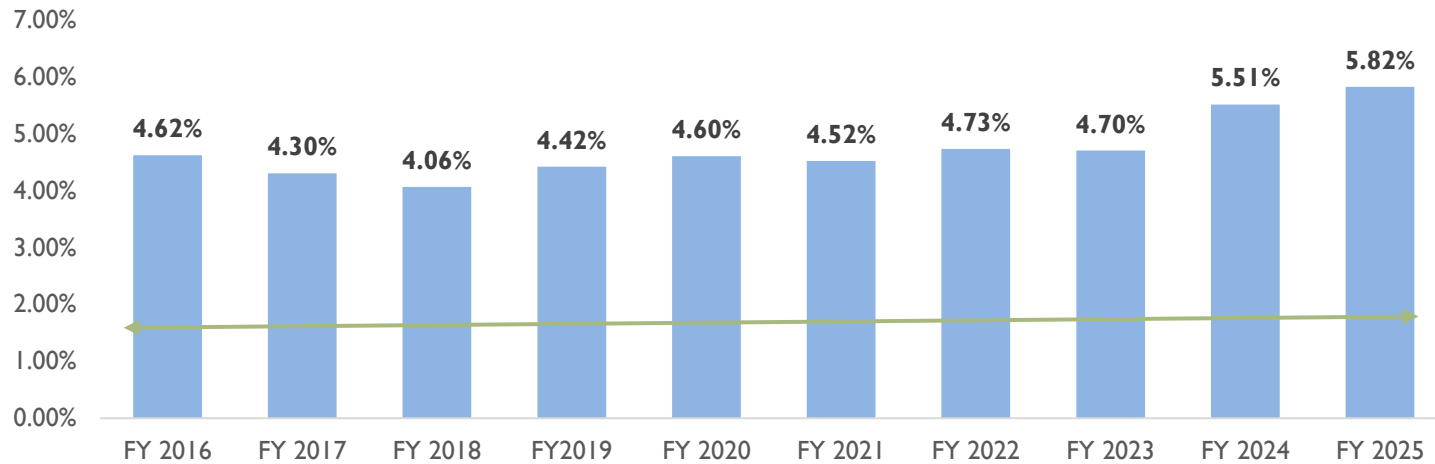
NOTES FOR JENNINGS RANDOLPH RESERVOIR: The note payable to the Federal government for improvements to the Jennings Randolph Reservoir is considered subordinate debt under the Master Indenture of Trust. The notes were issued to provide a backup water supply facility for the Authority. DC Water's share of operating and capital cost is 30 percent

NOTES FOR LITTLE SENECA RESERVOIR: The note payable to Washington Suburban Sanitary Commission (WSSC) is considered subordinate debt under the Master Indenture of Trust. The notes were issued by WSSC for construction of the Little Seneca Dam and Lake for backup and peak-day water supply for the Authority. DC Water's share of operating and capital costs is 40 percent. DC Water prepaid the note in full in August 2013

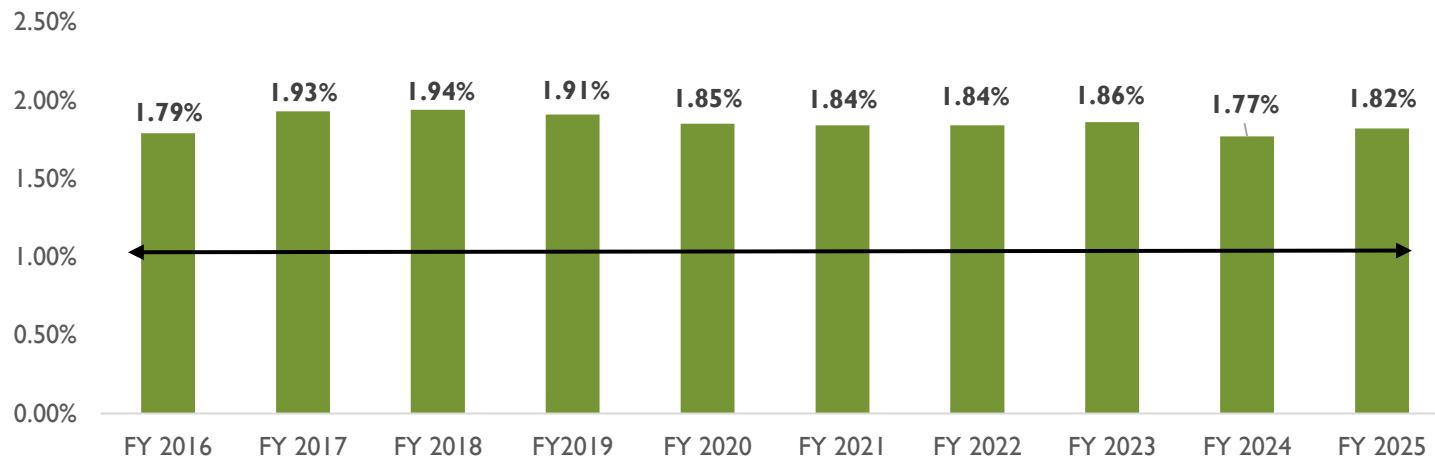
COMMERCIAL PAPER: These notes issued are considered subordinate debt under the Master Indenture of Trust. DC Water's commercial paper program is issued in increments with maturities less than 270 days. As described in Section III, the Board approved the commercial paper program in early FY 2002; proceeds from the sale of the notes are used for interim bond financing, short-term financing for capital equipment and certain taxable costs for the Washington Aqueduct. Each new bond issuance is evaluated to determine the most cost effective way of reducing the amount of taxable commercial paper. Normal market conditions for commercial paper carries significantly lower interest rates than long-term debt. In April 2013, DC Water successfully extended the Letter of Credit with JP Morgan Chase Bank and US Bank. The \$200 million commercial paper program includes: 1) Series A (tax-exempt) aggregate principal amount not to exceed \$75 million; 2) Series B (tax-exempt) aggregate principal amount not to exceed \$50 million; and (3) Series C (taxable) aggregate principal amount not to exceed \$75 million. If the Letter of Credit is not extended, it will expire May 29, 2015.

DEBT POLICY: DC Water's comprehensive debt policy can be found on our website at www.dewater.com.

Senior Debt Service Coverage
FY 2016 - FY 2025

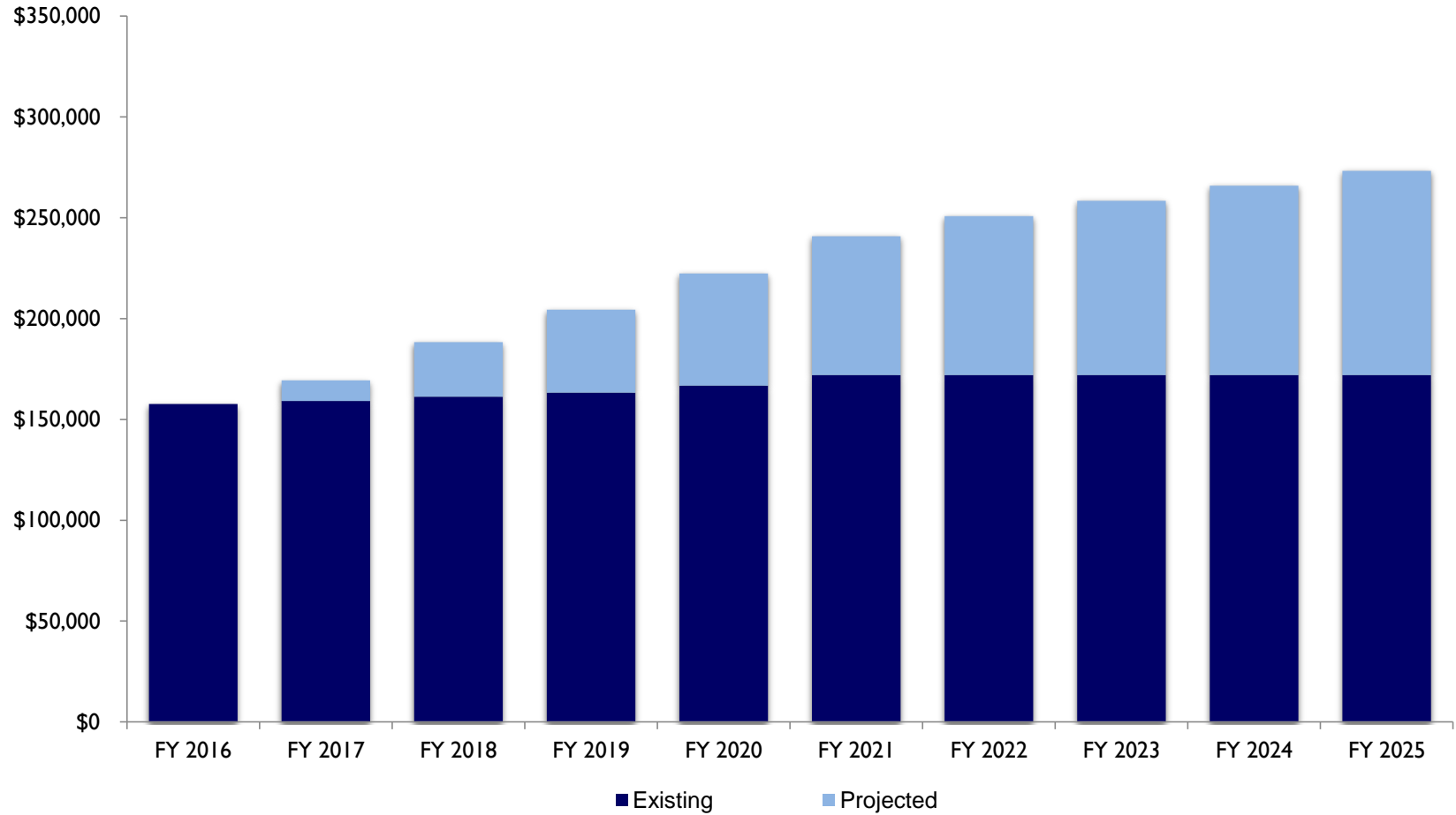


Subordinate Debt Service Coverage
FY 2016 - FY 2025



\$ in thousands

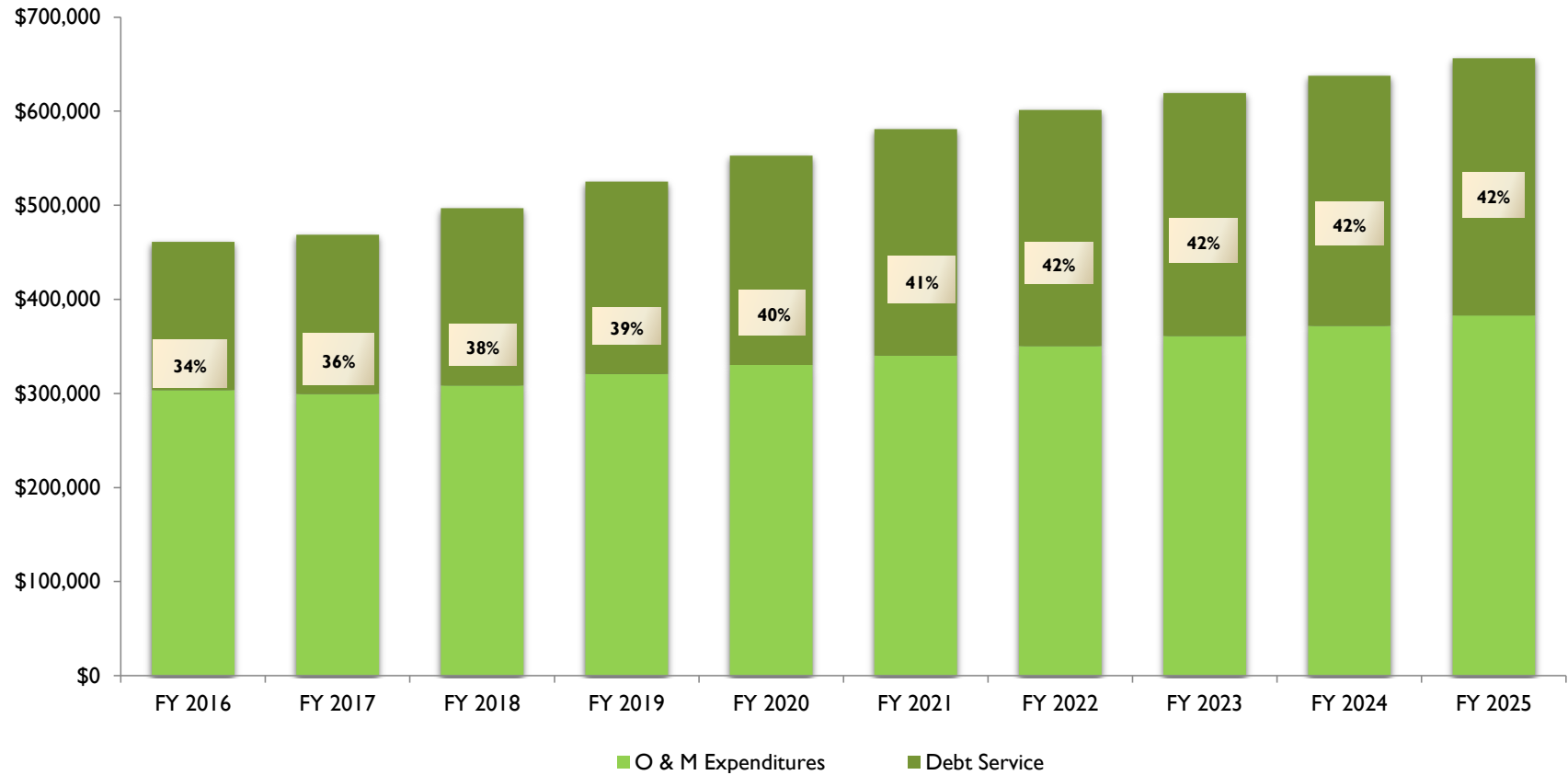
FY 2016 - FY 2025



Debt Service as Percentage of O&M Expenditures

\$ in thousands

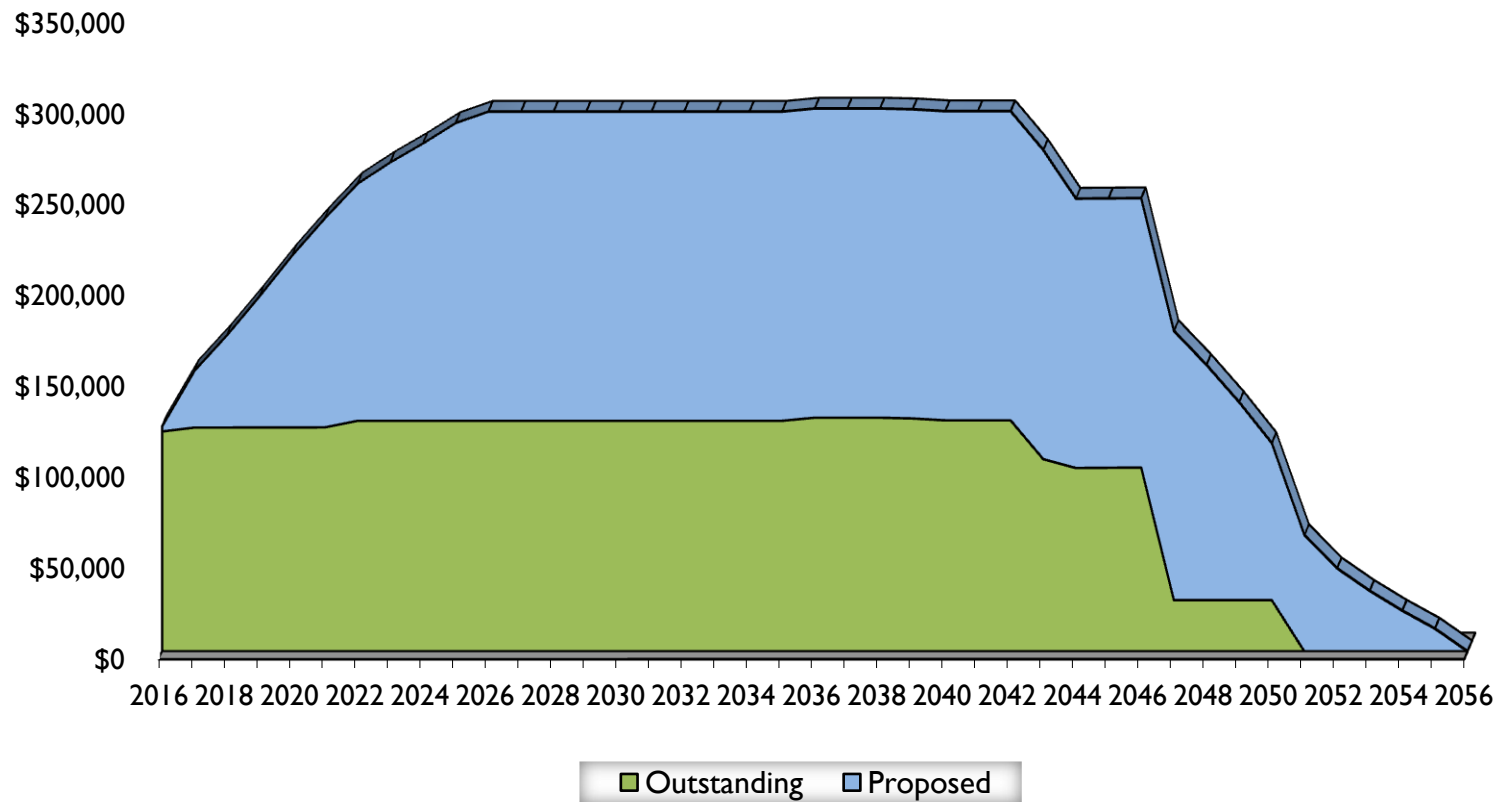
FY 2016 - FY 2025



Debt Outstanding & Proposed

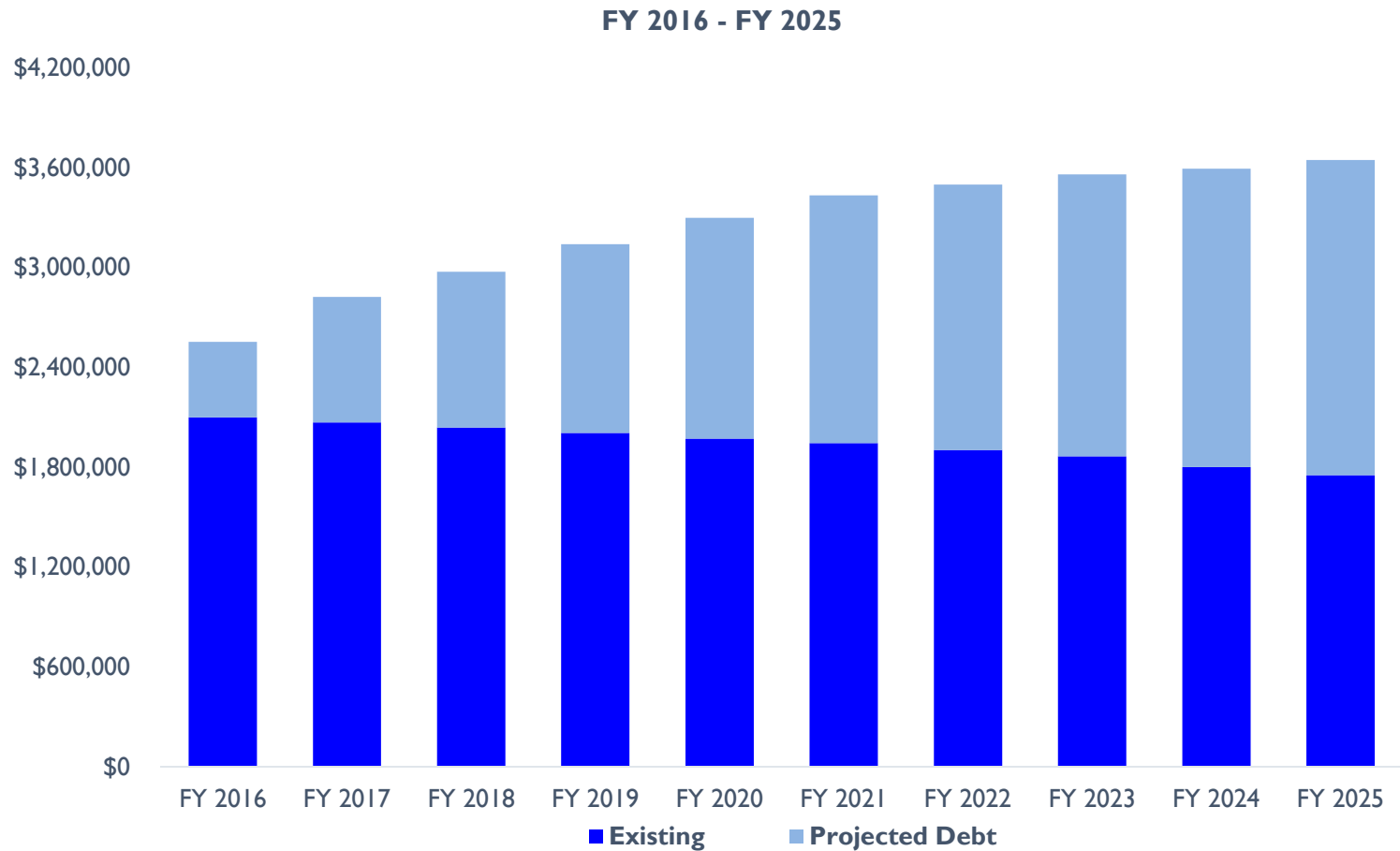
\$ in thousands

FY 2016 - FY 2056



Principal Debt Outstanding

\$ in thousands

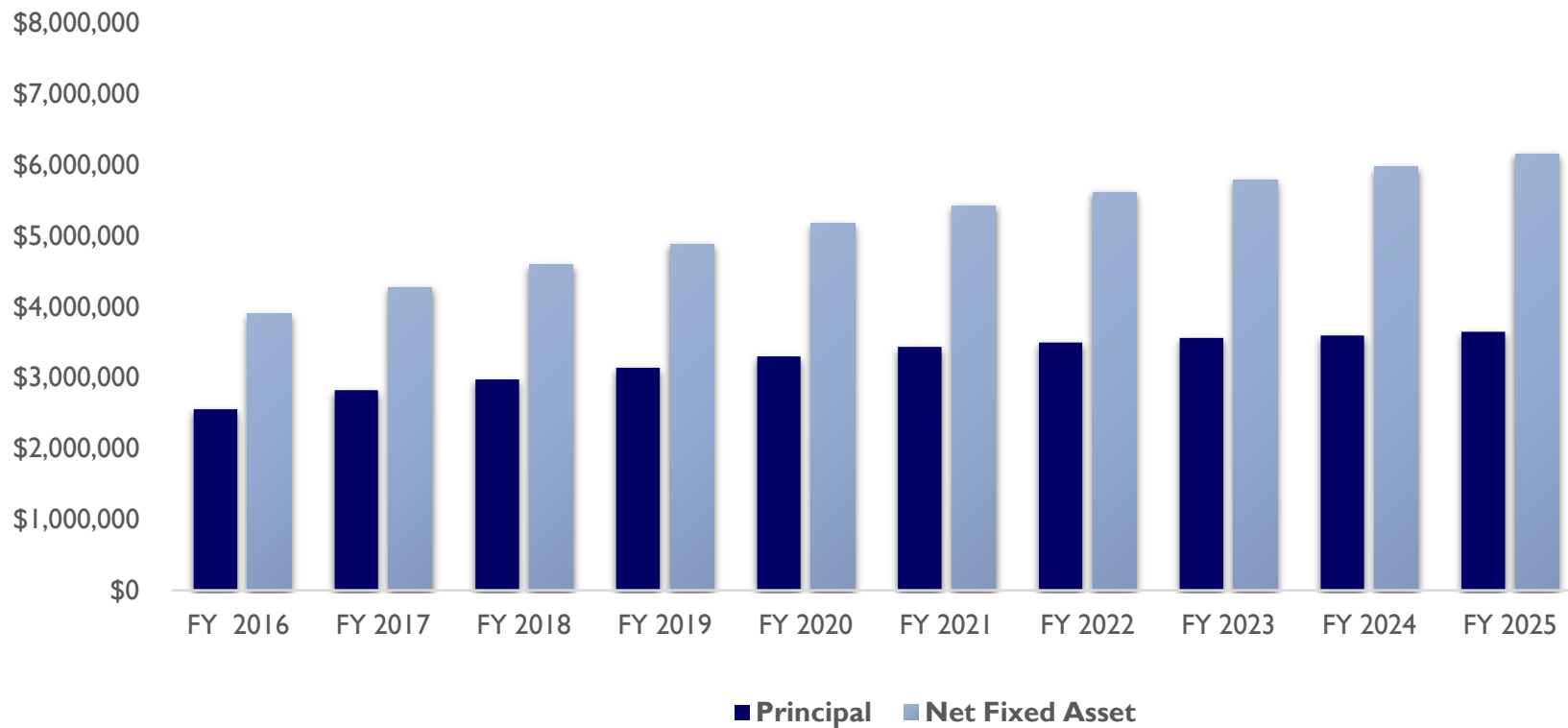


- The largest source of funding for DC Water's Capital Improvement Program is debt
- Over the next 10 - years, DC Water will issue approximately \$1.8 Billion in debt (this includes the funding of Reserves and Costs of Issuance), increasing total Debt Outstanding to \$3.6 Billion at the end of FY 2025

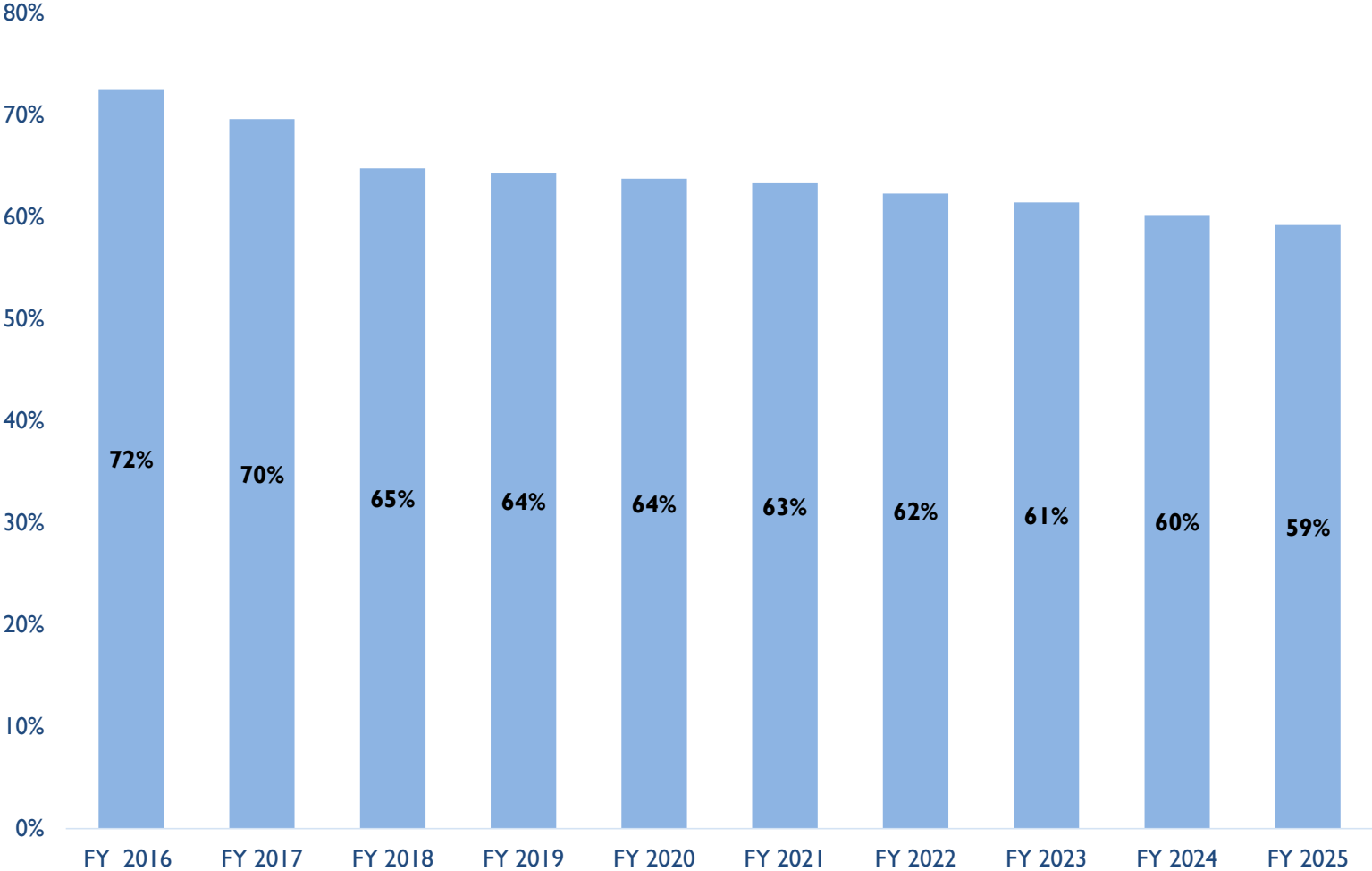
Principal vs. Net Fixed Assets

\$ in thousands

FY 2016 - FY 2025



FY 2016 - FY 2025





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OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section VII DEPARTMENTAL SUMMARIES



12:39:37	11/08/12	52°F	Humidity:27%	Wind: NW12mph	24157 KW
TOTAL INF 290 MGD	FAST FLOW 290 MGD	Filter Influent	Outfall	OP (Ortho-Phos)	0.02 FPM
OUTFALL 002 290 MGD	FAST FLOW 0 MGD	ORP	F-7 0-23	NH3 (Ammonia)	0.10 FPM
EXCESS FLOW 0 MGD	SEWER LEVEL -2.2 FT	ODD 514 mV	pH 6.44 6.48	NO3 (Nitrate)	4.08 FPM
		EVEN 569 mV	00 8.82 9.87	NO2 (Nitrite)	0.10 FPM

Introduction to DC Water’s Operational and Administrative (Support) Departments

DC Water’s organizational structure is a key tool for ensuring that the organizational mission is achieved. The structure consists of twenty-four departments that are defined primarily along functional roles and further grouped along service lines (Operational or Administrative) or reporting clusters of authority.

Service Lines: Operational departments include: Water Services, Sewer Collection and Wastewater Treatment services (including maintenance of these facilities). These departments are responsible for the day-to-day operations of the DC Water’s extensive infrastructure and facilities that provide direct services to our customers. Similarly, the Customer Service Department is classified as an operational department due to the integrated nature of their work to operations (i.e., customer care, metering and billing). Provision of first-line customer care to our customers includes 24 hour emergency service. Engineering and Technical Services, Clean Rivers and Permit Operations departments are responsible for ongoing reinvestment of the system infrastructure, compliance with various mandates and provide services to the development community throughout the District of Columbia.

All other departments provide critical administrative and technical support to ensure the safe and reliable continuity of our vital services through short and long-term planning, asset management, leadership and all financial and human capital support requirements. An organizational chart can be found on page VII-11.

Reporting Lines: Departments are grouped within clusters to ensure accountability and to enhance efficiency and delivery of various services. A member of the Executive Team* heads each departmental cluster group and carries the accountability for service delivery and performance metrics of the departments within their cluster.

As DC Water strives in its mission to be a “best in world” organization, it also continues to make organizational changes and improvement to enhance efficiencies, improve processes and best utilize all assets with the goal to better serve the public and protect the environment. In FY 2014, this resulted in various changes, including:

- Reorganization of the Facilities and Security Management Department into two separate departments: Facilities Management Department and the Department of Security. This allows for a greater focus on the safety and security of our employees and customers, and better protection of the Authority’s facilities and assets; and
- Incorporation of Risk Management into Finance, Accounting & Budget Department.

*Executive Team

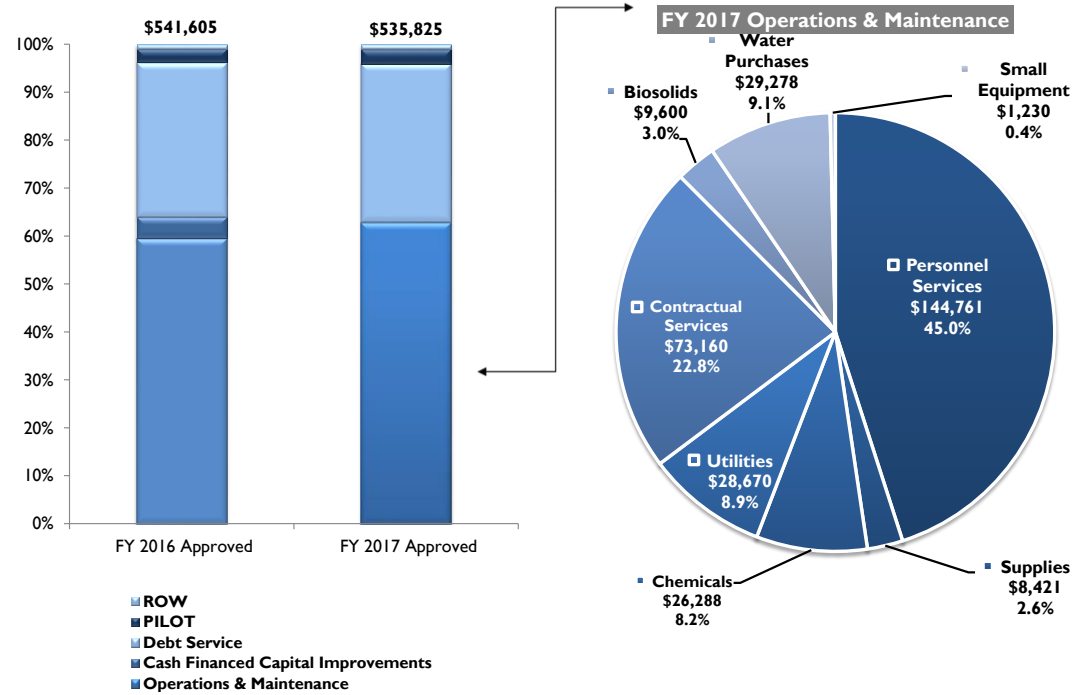
CEO & General Manager	Chief of Staff	Chief Operating Officer	Chief Financial Officer	Chief External Affairs	Chief Engineer	Chief Information Officer	General Counsel	Chief Marketing Officer
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Operating Expenditures by Department, Cluster & Object

FY 2016 - FY 2017, \$ in thousands

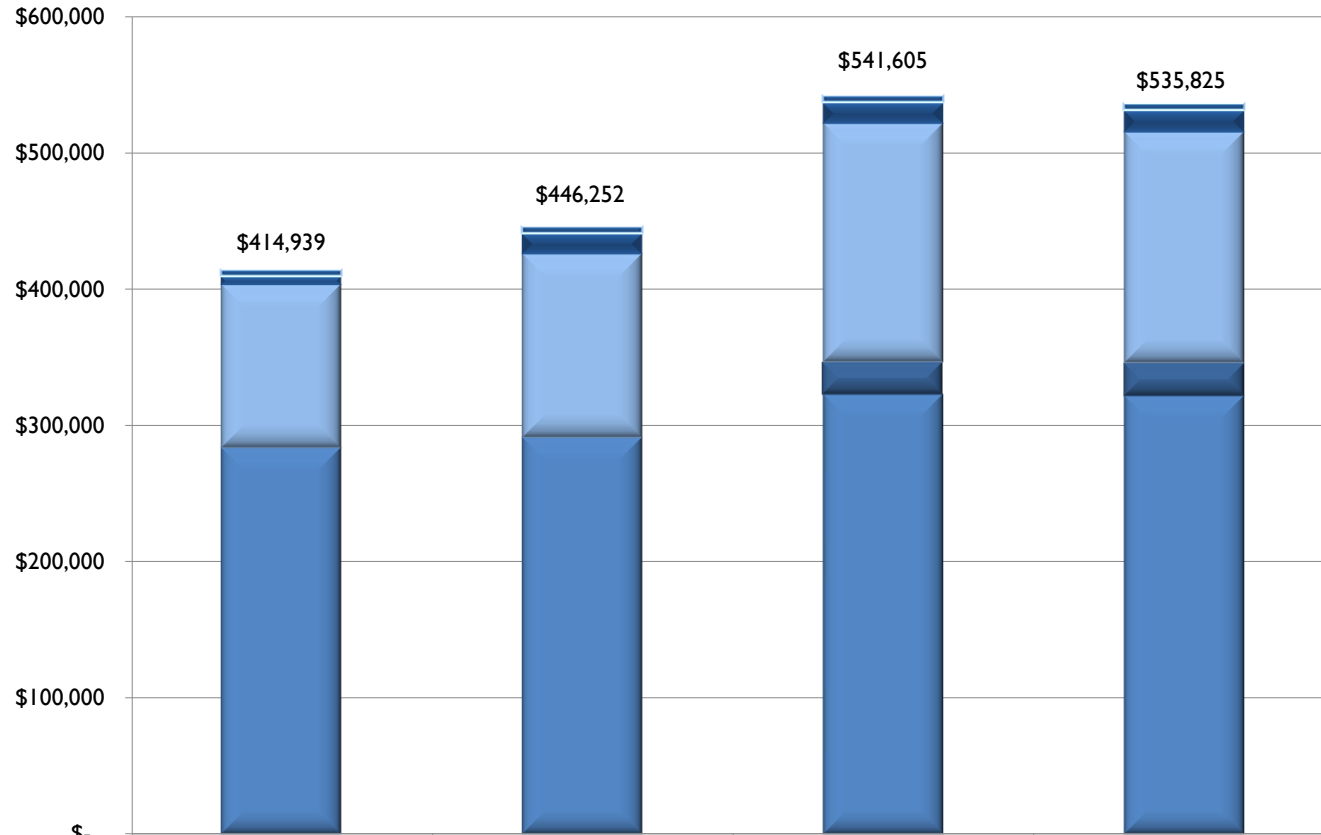
Departments & Clusters	FY 2016 APPROVED	FY2017 APPROVED
BLUE PLAINS	\$ 115,812	\$ 109,515
Maintenance Services	20,549	21,057
WWT-Operations	86,972	80,466
WWT-Process Engineering	8,291	7,991
CHIEF ENGINEER	29,278	30,394
D.C. Clean Rivers	2,996	3,023
Engineering & Technical Services	24,069	25,126
Permit Operations	2,214	2,244
CHIEF FINANCIAL OFFICER	13,465	14,391
Finance, Accounting & Budget	13,465	14,391
CUSTOMER CARE & OPERATIONS	106,295	106,767
Customer Care	17,500	18,679
Sewer Services	15,267	15,077
Water Services	22,574	22,936
Distribution & Conveyance System	50,954	50,075
INDEPENDENT OFFICES	23,635	25,028
Board Secretary	614	625
External Affairs	2,203	2,272
General Counsel	5,733	5,823
General Manager	3,683	4,373
Information technology	10,530	11,045
Internal Audit	872	890
SUPPORT SERVICES	33,966	35,313
Assistant General Manager - Support Services	367	527
Fleet Management	5,732	5,456
Human Capital Management	6,733	7,823
Occupational Safety & Health	1,694	1,691
Procurement	4,603	4,450
Facilities Managemet	8,276	8,490
Security	6,562	6,877
Subtotal O & M Expenditures	322,451	321,408
Debt Service	174,766	169,346
Cash Financed Capital Improvements	23,644	24,014
Payment in Lieu of Taxes	15,644	15,957
Right of Way Fees	5,100	5,100
Total Operating Expenditures	\$ 541,605	\$ 535,825
Personnel Services charged to Capital Projects	(18,993)	(21,934)
Total Net Operating Expenditures	\$ 522,612	\$ 513,891

Object	FY 2016 APPROVED	FY2017 APPROVED
Personnel Services	\$ 140,034	\$ 144,761
Contractual Services	79,244	82,760
Water Purchases	30,740	29,278
Chemicals and Supplies	35,951	34,709
Utilities	35,018	28,670
Small Equipment	1,465	1,230
Subtotal Operations & Maintenance Expenditures	322,451	321,408
Debt Service	174,766	169,346
Cash Financed Capital Improvements	23,644	24,014
Payment in Lieu of Taxes	15,644	15,957
Right of WWay Fees	5,100	5,100
Total Operating Expenditures	\$ 541,605	\$ 535,825
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Total Net Operating Expenditures	\$ 522,612	\$ 513,891



Comparative Operating Expenditure Budgets

\$ in thousands



	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
■ ROW	\$5,100	\$5,100	\$5,100	\$5,100
■ PILOT	\$6,358	\$15,337	\$15,644	\$15,957
■ Debt Service	\$120,165	\$134,845	\$174,766	\$169,346
■ Cash Financed Capital Improvements	\$-	\$-	\$23,644	\$24,014
■ Operations & Maintenance	\$283,316	\$290,970	\$322,451	\$321,408

FY 2016 Approved Budget by Department by Category

\$ in thousands

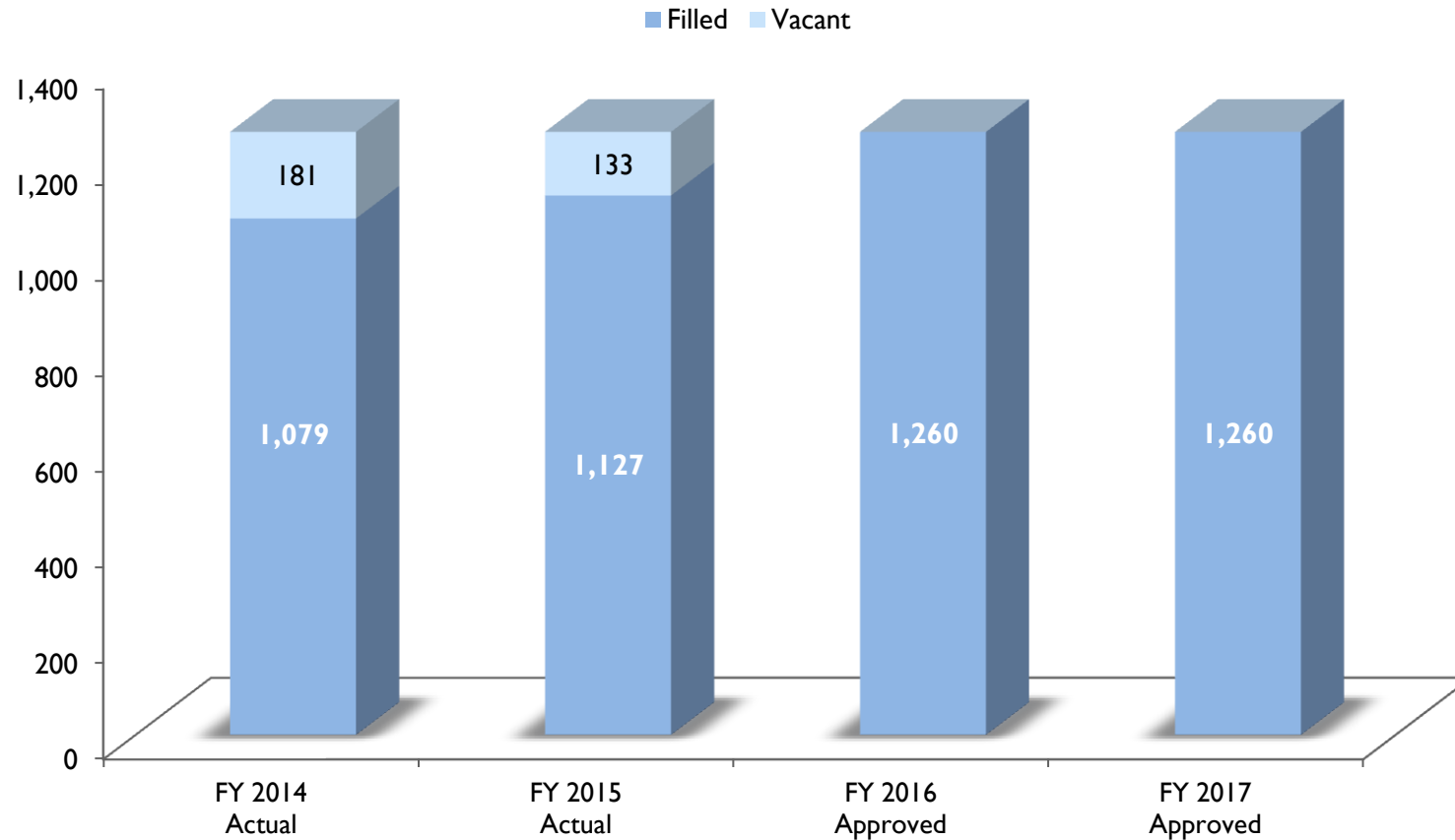
	Pos	Pay	Fringe	Overtime	Personnel Services	Supplies	Chemicals	Utilities	Contracts	Biosolids	Water Purchases	Equipment	Total Non-Personnel Services	Total Dept.
O p e r a t i o n s														
Wastewater Treatment - Operations	118	\$ 9,372	\$ 2,856	\$ 1,451	\$ 13,679	\$ 999	\$ 27,688	\$ 24,634	\$ 9,086	\$ 10,783	\$ -	\$ 102	\$ 73,292	\$ 86,972
Wastewater Treatment - Process Engineering	40	3,417	1,055	120	4,591	644	-	34	2,963	-	-	59	3,700	8,291
Maintenance Services	119	8,792	2,712	700	12,204	3,054	-	174	4,846	-	-	271	8,345	20,549
Water Services	194	12,759	3,995	980	17,735	681	30	282	3,667	-	-	180	4,840	22,574
Sewer Services	120	8,225	2,593	900	11,718	572	15	956	1,945	-	-	60	3,548	15,267
Customer Service	124	8,730	2,749	260	11,739	138	-	1,170	4,405	-	-	48	5,762	17,500
Distribution & Conveyance Systems	87	6,820	2,064	750	9,634	630	373	4,935	4,382	-	30,740	260	41,320	50,954
Engineering and Technical Services	166	15,719	4,904	1,063	21,686	141	-	433	1,701	-	-	108	2,383	24,069
D.C. Clean Rivers	16	2,057	652	5	2,713	16	-	107	159	-	-	-	282	2,996
Permit Operations	15	1,283	407	15	1,705	24	-	338	147	-	-	-	509	2,214
Subtotal Operations	999	77,175	23,985	6,244	107,404	6,899	28,106	33,063	33,303	10,783	30,740	1,089	143,981	251,385
A d m i n i s t r a t i o n														
General Manager	11	1,570	497	8	2,074	11	-	30	1,567	-	-	-	1,609	3,683
Office of the Secretary (Board)	2	201	64	5	270	18	-	9	316	-	-	1	343	614
Internal Audit	-	-	-	-	-	-	-	9	864	-	-	-	872	872
General Counsel	15	1,462	463	2	1,927	8	-	22	3,776	-	-	-	3,805	5,733
External Affairs	13	1,256	398	27	1,681	15	-	31	466	-	-	10	522	2,203
Information Technology	24	2,572	803	27	3,401	166	-	168	6,632	-	-	164	7,129	10,530
Finance, Accounting and Budget	49	5,000	1,584	30	6,614	31	-	206	6,610	-	-	4	6,851	13,465
AGM - Support Services	2	257	81	1	339	1	-	7	20	-	-	-	28	367
Human Capital Management	26	2,962	840	5	3,807	34	-	48	2,842	-	-	2	2,925	6,733
Facilities Management	60	4,099	1,276	250	5,625	558	-	114	1,929	-	-	50	2,651	8,276
Security	7	624	198	-	821	19	-	7	5,665	-	-	50	5,741	6,562
Procurement	36	3,032	961	30	4,023	39	-	62	479	-	-	1	580	4,603
Occupational Safety and Health	9	933	296	2	1,231	37	-	55	360	-	-	10	463	1,694
Fleet Management	7	617	196	4	816	11	-	1,189	3,631	-	-	85	4,916	5,732
Subtotal Administration	261	24,584	7,656	390	32,630	946	-	1,955	35,158	-	-	377	38,436	71,066
Subtotal O & M Expenditures	1,260	\$ 101,759	\$ 31,642	\$ 6,633	\$ 140,034	\$ 7,845	\$ 28,106	\$ 35,018	\$ 68,460	\$ 10,783	\$ 30,740	\$ 1,465	\$ 182,417	\$ 322,451
Debt Service														174,766
Cash Financed Capital Improvements														23,644
Payment in Lieu of Taxes														15,644
Right of Way														5,100
Total OPERATING EXPENDITURES														\$ 541,605
Personnel Services charged to Capital Projects														(18,993)
TOTAL NET OPERATING EXPENDITURES														\$ 522,612

FY 2017 Approved Budget by Department by Category

\$ in thousands

	Pos	Pay	Fringe	Overtime	Total Personnel Services	Supplies	Chemicals	Utilities	Contracts	Biosolids	Water Purchases	Equipment	Total Non-Personnel Services	Total Dept.
Operations														
Wastewater Treatment - Operations	121	\$ 10,020	\$ 3,140	\$ 1,451	\$ 14,611	\$ 1,285	\$ 25,895	\$ 19,353	\$ 9,619	\$ 9,600	\$ -	\$ 102	\$ 65,854	\$ 80,466
Wastewater Treatment - Process Engineering	40	3,348	1,124	120	4,591	628	-	64	2,692	-	-	16	3,400	7,991
Maintenance Services	116	8,986	2,891	700	12,578	3,457	-	164	4,639	-	-	220	8,480	21,057
Water Services	190	12,888	4,313	1,100	18,301	635	30	210	3,610	-	-	150	4,635	22,936
Sewer Services	119	8,094	2,717	900	11,711	472	40	803	1,991	-	-	60	3,366	15,077
Customer Service	124	8,958	2,988	260	12,206	171	-	1,239	5,013	-	-	50	6,472	18,679
Distribution & Conveyance Systems	88	7,200	2,293	750	10,243	701	323	4,450	4,854	-	29,278	226	39,832	50,075
Engineering and Technical Services	166	15,844	5,194	1,063	22,102	176	-	439	2,327	-	-	82	3,025	25,126
D.C Clean Rivers	16	2,062	692	5	2,759	10	-	97	157	-	-	-	265	3,023
Permit Operations	15	1,292	434	15	1,741	26	-	340	138	-	-	-	503	2,244
Subtotal Operations	995	78,692	25,787	6,364	110,843	7,561	26,288	27,159	35,039	9,600	29,278	907	135,832	246,675
Administration														
General Manager	15	2,229	748	8	2,984	13	-	29	1,347	-	-	-	1,389	4,373
Office of the Secretary (Board)	2	207	70	5	282	18	-	8	316	-	-	1	343	625
Internal Audit	-	-	-	-	-	-	-	8	883	-	-	-	890	890
General Counsel	15	1,508	506	2	2,017	8	-	20	3,779	-	-	-	3,806	5,823
External Affairs	13	1,290	433	27	1,750	10	-	33	471	-	-	7	522	2,272
Information Technology	28	3,006	1,009	27	4,042	64	-	161	6,654	-	-	124	7,003	11,045
Finance, Accounting and Budget	48	4,899	1,644	30	6,573	53	-	207	7,554	-	-	4	7,818	14,391
AGM - Support Services	3	371	125	1	497	1	-	10	19	-	-	-	30	527
Human Capital Management	25	2,888	838	5	3,731	34	-	48	4,008	-	-	2	4,092	7,823
Facilities Management	59	4,105	1,354	250	5,710	548	-	104	2,078	-	-	50	2,780	8,490
Security	7	633	213	-	846	19	-	24	5,954	-	-	35	6,031	6,877
Procurement	34	2,525	848	30	3,403	41	-	66	935	-	-	5	1,047	4,450
Occupational Safety and Health	9	931	312	2	1,245	37	-	36	363	-	-	10	446	1,691
Fleet Management	7	625	210	4	839	16	-	757	3,760	-	-	85	4,617	5,457
Subtotal Administration	265	25,218	8,309	390	33,919	860	-	1,512	38,121	-	-	323	40,815	74,733
Subtotal O & M Expenditures	1,260	\$ 103,911	\$ 34,096	\$ 6,754	\$ 144,761	\$ 8,421	\$ 26,288	\$ 28,670	\$ 73,160	\$ 9,600	\$ 29,278	\$ 1,230	\$ 176,647	\$ 321,408
Debt Service														169,346
Cash Financed Capital Improvements														24,014
Payment in Lieu of Taxes														15,957
Right of Way														5,100
Total Operating Expenditures														\$ 535,825
Personnel Services charged to Capital Projects														(21,934)
Total Net Operating Expenditures														\$ 513,891

FY 2014 - FY 2017



Due to the high historic vacancy rate, starting FY 2014, DC Water made a strategic decision to maintain the authorized head count until single-digit vacancy rate is accomplished. To achieve this goal, all vacancies have partial or full funding to support hiring efforts without impacting operations.

Authorized Positions by Department

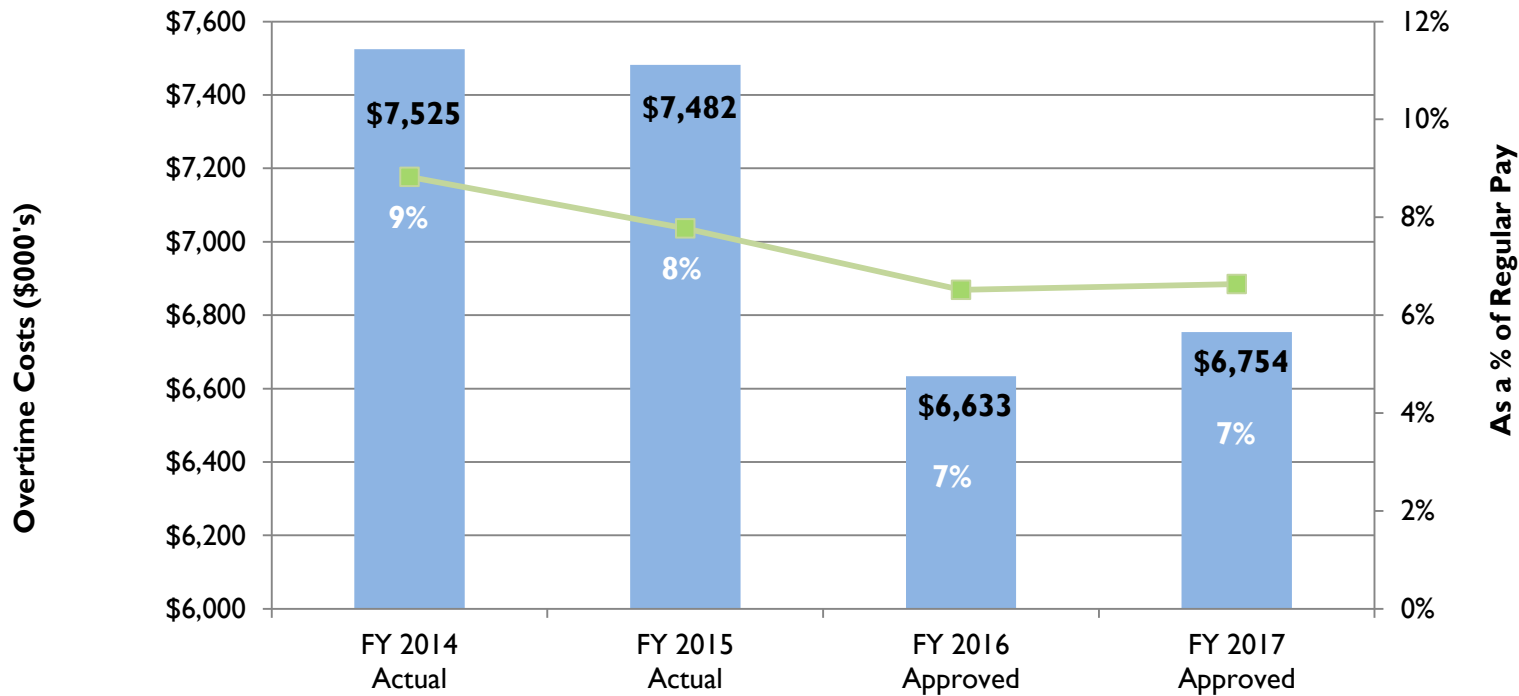
		FY 2014				FY 2015				FY 2016	FY 2017
		Authorized	Average Filled	Average Vacant	Year-End Filled	Authorized	Average Filled	Average Vacant	Year-End Filled	Approved	Approved
○	Wastewater Treatment - Operations	118	104	14	100	121	112	10	115	118	121
p	Wastewater Treatment - Process Engineering	42	26	16	23	40	25	15	23	40	40
e	Maintenance Services	117	100	17	99	116	107	9	108	119	116
r	Water Services	207	163	44	169	190	163	27	168	194	190
a	Sewer Services	158	140	18	152	119	107	12	108	120	119
t	Customer Service	125	112	13	114	124	112	12	115	124	124
i	Distribution & Conveyance Systems*	34	43	-9	33	88	68	20	71	87	88
o	Engineering and Technical Services	166	145	21	140	166	147	19	149	166	166
n	D.C. Clean Rivers	16	11	5	11	16	13	3	14	16	16
s	Permit Operations	15	14	1	15	15	14	1	14	15	15
Subtotal		998	858	140	856	995	868	127	885	999	995
A	General Manager	11	8	3	8	15	11	4	15	11	15
d	Office of the Secretary (Board)	2	2	0	1	2	2	-	2	2	2
m	Internal Audit	-	-	-	-	-	-	-	-	-	-
i	General Counsel	15	11	4	12	15	12	3	13	15	15
n	External Affairs	12	12	-	12	13	13	0	12	13	13
i	Information Technology	24	19	5	16	28	23	5	27	24	28
s	Finance, Accounting and Budget	50	48	2	46	48	45	3	46	49	48
t	Assistant General Manager - Support Services	2	1	1	1	3	2	1	2	2	3
r	Human Capital Management	25	23	2	25	25	24	1	23	26	25
a	Facilities Management	67	60	7	60	59	56	3	55	60	59
t	Security	-	-	-	-	7	6	1	7	7	7
i	Procurement	38	29	9	30	34	24	10	24	36	34
o	Occupational Safety and Health	10	7	3	7	9	9	-	9	9	9
n	Fleet Management	6	5	1	5	7	6	1	7	7	7
Subtotal		262	225	37	223	265	234	31	242	261	265
Total Positions		1,260	1,083	177	1,079	1,260	1,102	158	1,127	1,260	1,260

Year-round interns, short-term temps and summer temps are not included in the filled count.

*Distribution & Conveyance Systems (DDCS) underwent a reorganization in FY 2014. FTEs were shifted from Water Pumping and Sewer Pumping Operations into DDCS resulting in the average filled exceeding the authorized.

Annual Overtime Trend

\$ in thousands



The Authority’s overtime target is 6 percent of regular pay. For FY 2014, overtime costs were higher than budget due to wage adjustments, increased after hours work requests for equipment failures, short-staffing due to retirement in the Maintenance Services Department, and higher water main breaks due to extreme cold temperatures during the winter season. In FY 2015, overtime costs were higher than budget due primarily to higher water main breaks from extreme cold temperatures during the winter season. Projected FY 2017 overtime costs reflect anticipated increase in hiring efforts for vacant positions throughout DC Water.

Overtime by Department

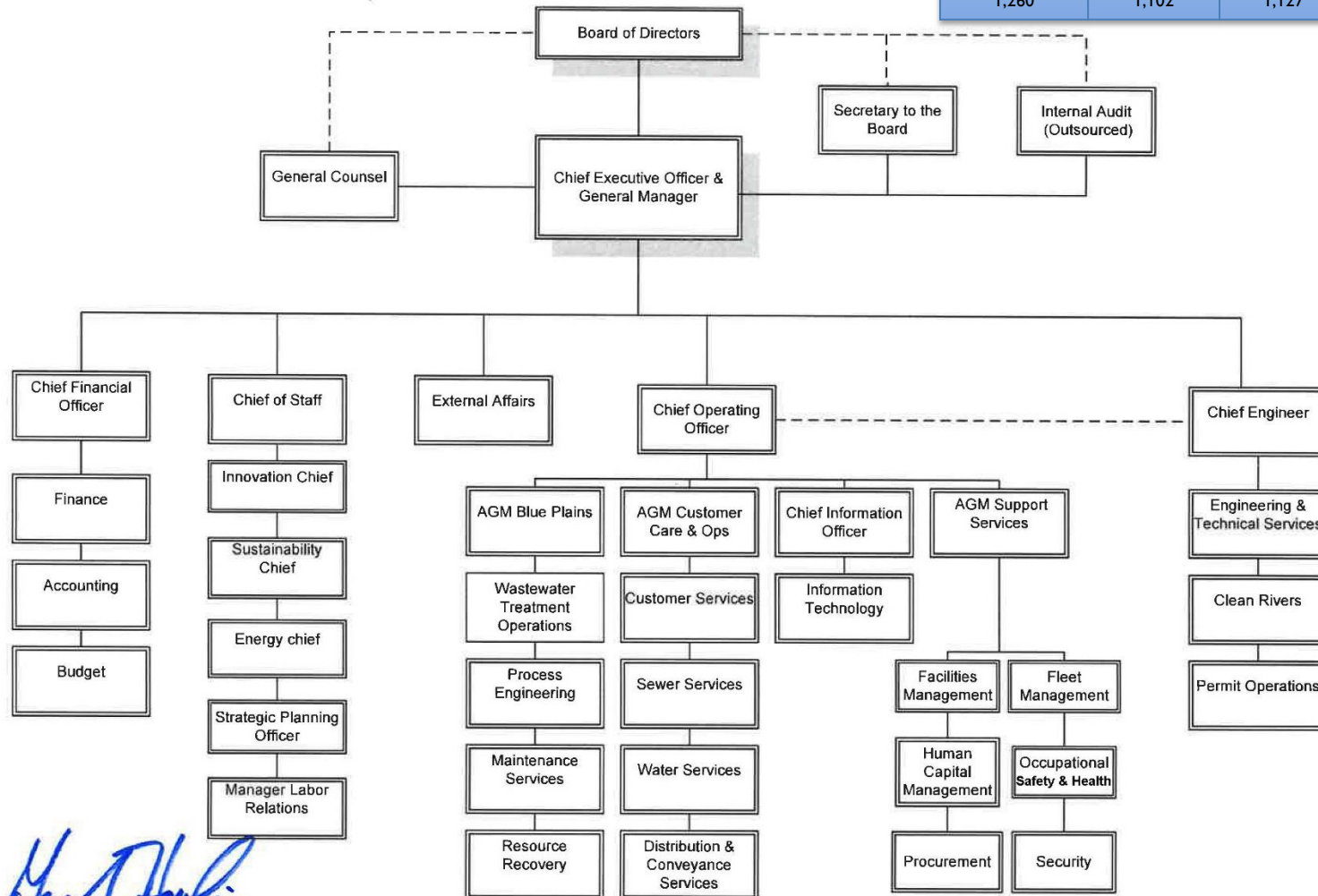
\$ in thousands

Department	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Wastewater Treatment - Operations	\$ 1,510	\$ 1,272	\$ 1,451	\$ 1,451
Wastewater Treatment - Process Engineering	77	58	120	120
Maintenance Services	1,227	979	700	700
Water Services	1,473	1,618	980	1,100
Sewer Services	1,476	941	900	900
Customer Service	194	263	260	260
Distribution and Conveyance Systems	279	860	750	750
Engineering and Technical Services	904	1,109	1,063	1,063
DC Clean Rivers	10	9	5	5
Permit Operations	2	3	15	15
General Manager	7	12	8	8
Office of the Board Secretary	8	12	5	5
Internal Audit	-	-	-	-
General Counsel	-	0	2	2
External Affairs	1	1	27	27
Information Technology	19	12	27	27
Finance, Accounting & Budget	28	39	30	30
Assistant General Manager - Support Services	1	2	1	1
Human Capital Management	1	6	5	5
Facilities Management	242	259	250	250
Security	-	0	-	-
Procurement	64	23	30	30
Occupational Safety and Health	0	1	2	2
Fleet Management	2	5	4	4
Total	\$ 7,525	\$ 7,482	\$ 6,633	\$ 6,754

Organization Chart

**FY 2017
Operating Budget
\$535,825,000**

POSITIONS				
FY 2015				
Authorized	Average Positions Filled	Year-End Positions Filled	FY 2016	FY 2017
1,260	1,102	1,127	1,260	1,260



George S. Hawkins, CEO & General Manager

Revised November 4, 2015



Cluster: BLUE PLAINS

Department: WASTEWATER TREATMENT OPERATIONS

FUNCTIONS

BUDGET

FY 2017
\$80,466,000

POSITIONS

FY 2015

Authorized	121
Average Positions Filled	112
Year-End Positions Filled	115
FY 2016	FY 2017
118	121

Plant Operations	Resource Recovery	Clean Water Quality & Technology
101 - Positions	6 - Positions	14 - Positions
Treat influent wastewater to remove pollutants and meet National Pollutant Discharge Elimination System Permit (NPDES) requirements	Biosolids storage, loading, hauling and utilization/beneficial use	Physical, chemical and biological analysis of wastewater and Biosolids used for process control and permit reporting
Condition, thicken, dewater and stabilize biosolids for beneficial use	Certification and marketing of Class A Biosolids	Industrial pretreatment discharge monitoring
Manage 4 shift crews – round the clock and manage use of resources – chemicals, energy, and contracts including Combined Heat and Power (CHP)	Outreach and partnership with surrounding jurisdictions on regulatory requests for biosolids applications	Treatment process innovation and R&D Administration of the DC Water Advanced Research & Testing (ART) Program
Asset Management/MAXIMO Administration		

WASTEWATER TREATMENT - OPERATIONS

MISSION: To treat wastewater delivered to Blue Plains from the collection system of the District of Columbia and surrounding jurisdictions in Maryland and Virginia, ensuring that effluent is in compliance with the Clean Water Act.

BUDGET OVERVIEW: The approved FY 2017 budget is lower than the approved FY 2016 budget by \$6.5 million due to projected savings from the Digester Project in the areas of reduced electricity, chemicals, and biosolids hauling cost with increase in personnel costs.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	118	121	118	121
Average number of positions filled	104	109		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 12,859	\$ 14,087	\$ 13,679	\$ 14,612
Overtime	1,510	1,272	1,451	1,451
Non-Personnel Services:				
Supplies	1,082	1,155	999	1,285
Chemicals	24,121	22,385	27,688	25,895
Utilities	19,719	21,979	24,634	19,353
Contractual Services, etc.	5,443	5,173	9,086	9,619
Biosolids	14,609	8,265	10,783	9,600
Small Equipment	34	35	102	102
Total Non-Personnel Services	65,008	58,991	73,292	65,854
Total Operations	\$ 77,867	\$ 73,078	\$ 86,972	\$ 80,466
Capital Equipment	\$ -	\$ 157	\$ 140	\$ 140

Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Achieve NACWA Award Status	Gold	Gold	Gold	platinum
Compliance with disposal of biosolids regulations (100%)	100 % compliance	100 % compliance	100 % compliance	100 % compliance
Inspection and Sampling of Pretreatment Permittees (100%)	100 % compliance	100 % compliance	100 % compliance	100 % compliance
Obtain 90% acceptable results on discharge monitoring report quality assurance samples	90 % compliance	90 % compliance	90 % compliance	90 % compliance

Note: EPA 503 (i.e. Title 40 of the Code of Federal Regulations, Part 503) regulates the use or disposal of sewage sludge or biosolids EPA DMR QA (i.e. Discharge Monitoring Report Quality Assurance) is conducted on wastewater samples used for permit compliance reports. Achieving acceptable results for at least 90% of samples will minimize the potential for EPA to audit the laboratory.

WASTEWATER TREATMENT - OPERATIONS

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Maintain full compliance with the National Pollutant Discharge Elimination Systems (NPDES) permit
- Complete training of operators on new CIP projects scheduled for commissioning in the fiscal year
- Continue to support implementation of other CIP projects in progress, including Long Term Control Plan (LTCP), Enhanced Nitrogen Removal Facilities – North (ENRN), Filtrate Treatment Facilities (FTF) and Tunnel Dewatering Project
- Continue implementation of High Priority Rehabilitation Program to ensure availability of critical process equipment
- Continue implementation of Safety and Operator Cross Training
- Review and revise the current Incentive Pay Programs to reflect the ever changing needs of this facility
- Implement Goal #6 of the DC Water Board Strategic Plan (Establish a Safety Management System)
- Continue implementation of an Asset Management Program
- Continue to improve the structure and use of Maximo
- Continue to work with surrounding jurisdictions (Maryland and Virginia) on regulatory requirements for biosolids and land applications
- Continue to increase the use of biosolids products in the service area, for restoration projects, tree planning, and Low Impact Development (LID) projects
- Continue biosolids product assurance to maintain low number of offsite odor complaints
- Develop a blended soil mix using our Class A biosolids
- Continue to take a lead in conducting cutting-edge research in wastewater treatment and biosolids management

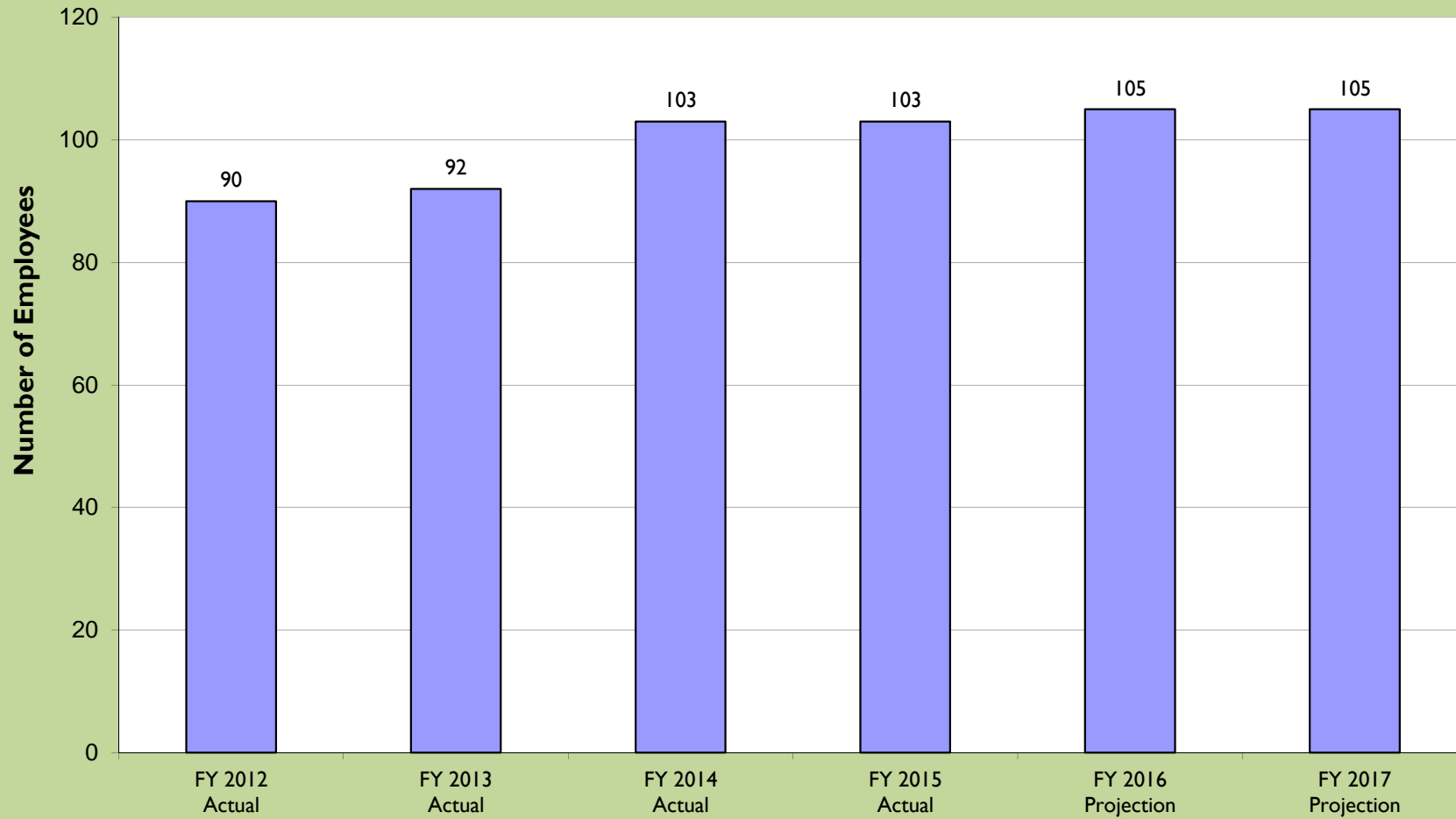
FY 2017 Major Recommended Activities and Changes

- Fully implement Biosolids Management Program
- Continue implementation of Goal 6 of the DC Water Board Strategic Plan
- Startup Filtrate Treatment Facilities (FTF)

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

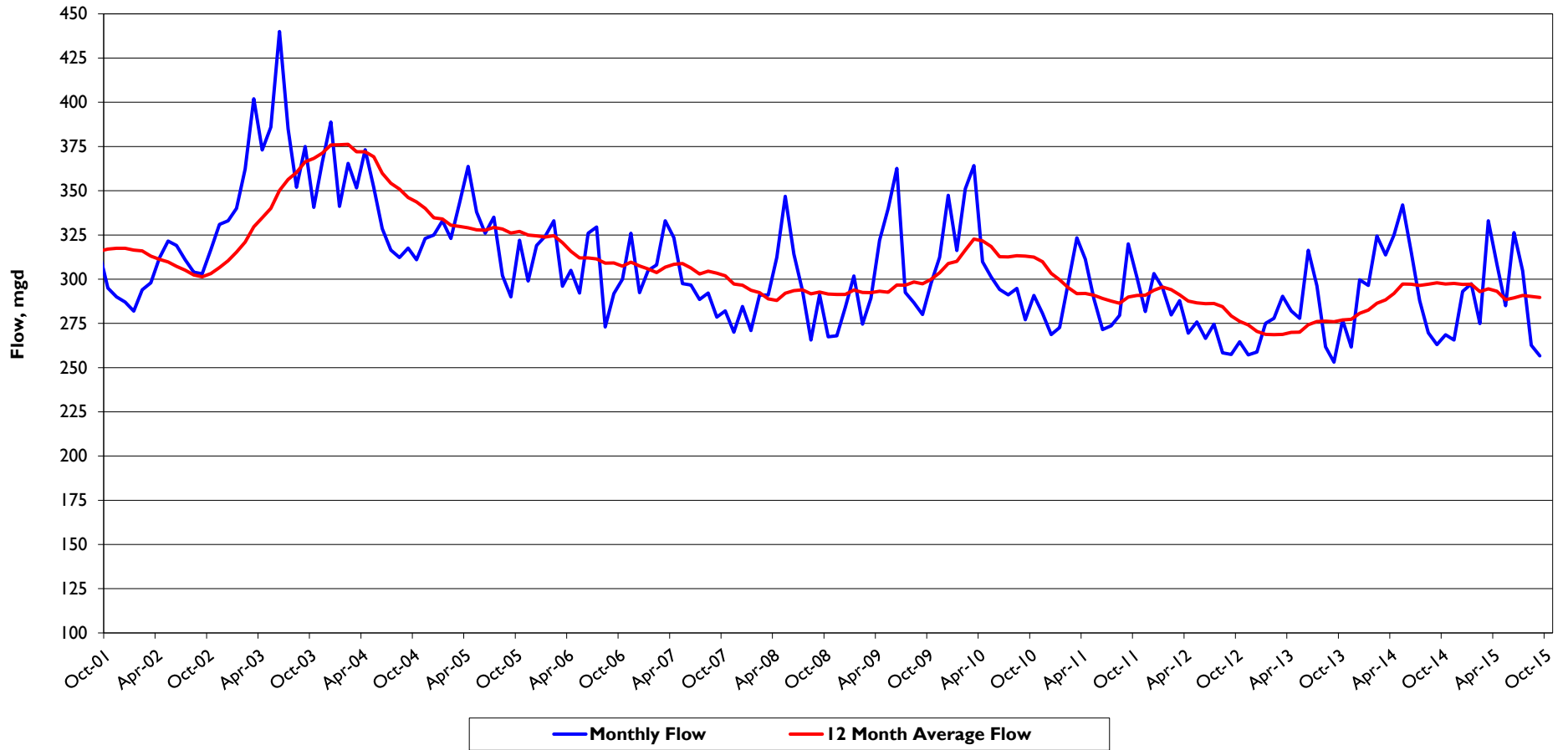
- Reduction in the quantity of biosolids and hauling costs attributable to the Digester Project
- Full implementation of the CHP component of the Digester Project in FY 2016 is anticipated to generate approximately 6MW of renewable energy per year
- Operation of the Enhanced Nitrogen Removal Facility and Thermal Hydrolysis – Anaerobic Digestion would increase chemical costs due to additional chemical (methanol) needed to remove excess pounds of nitrogen and ammonium in the facility

Wastewater Treatment Certified Operators* FY 2012 - FY 2017

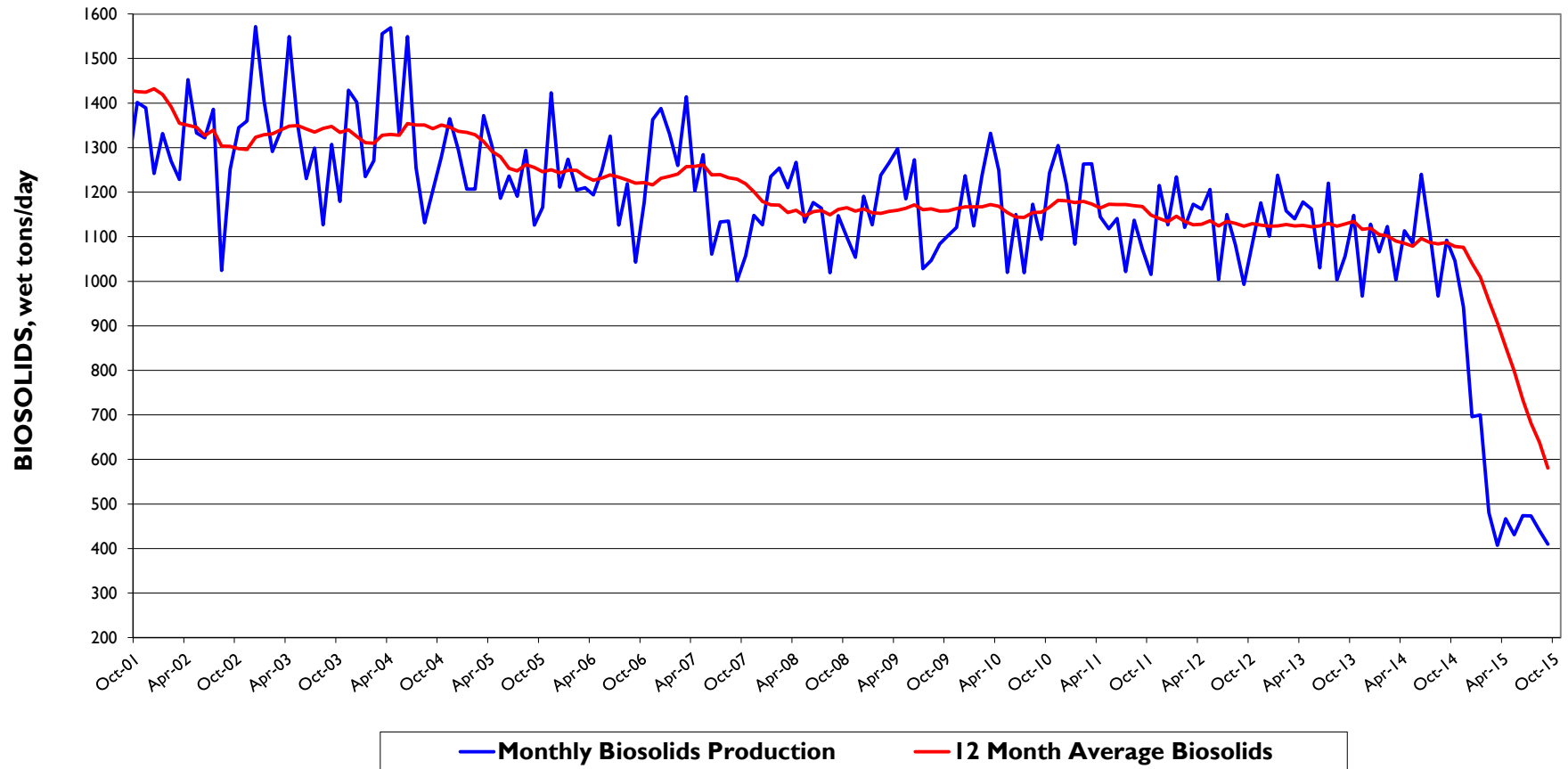


*Includes all positions with Certified Wastewater Treatment Plant Operator License

OCTOBER 2001 - OCTOBER 2015

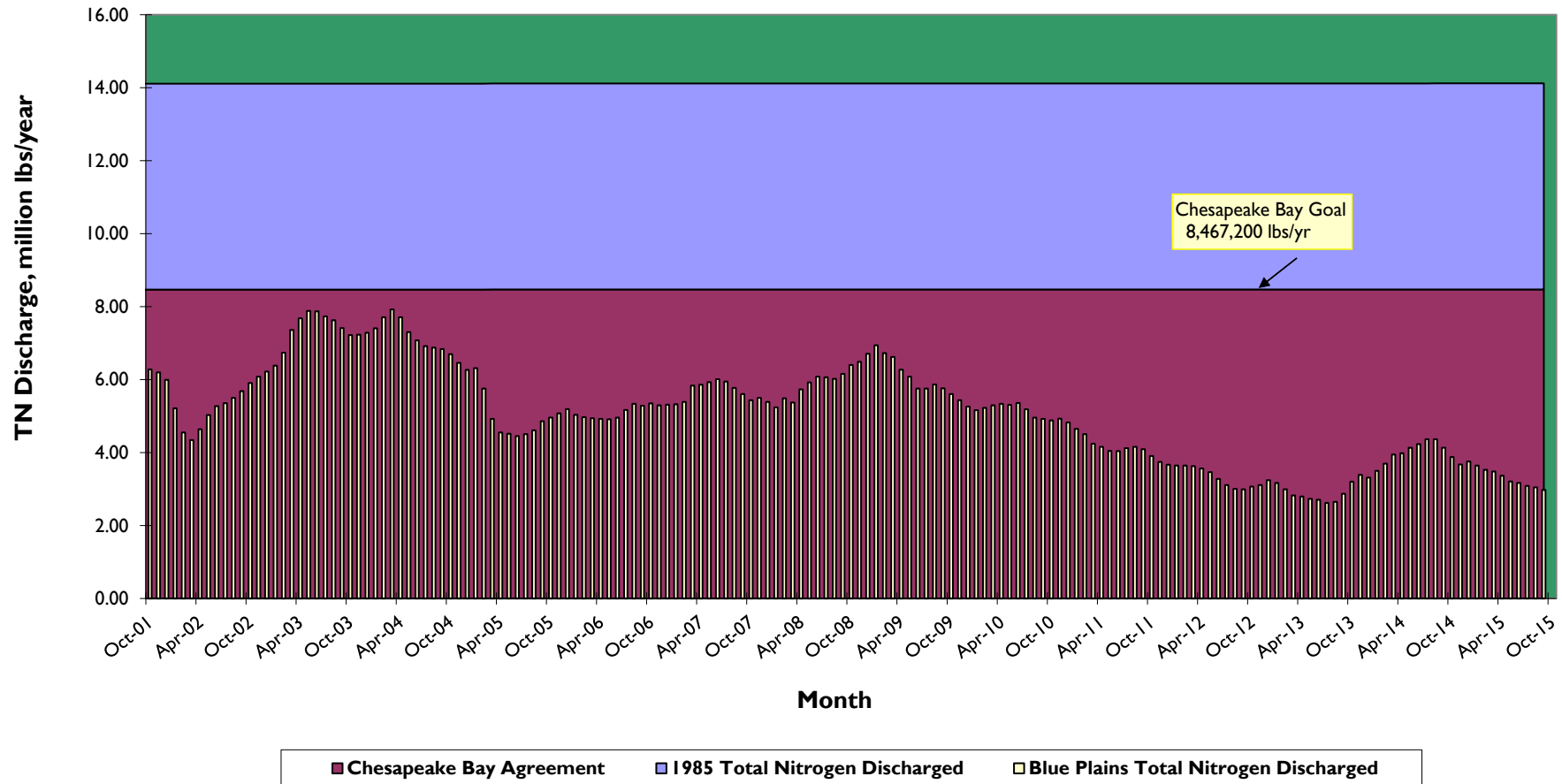


OCTOBER 2001 - OCTOBER 2015



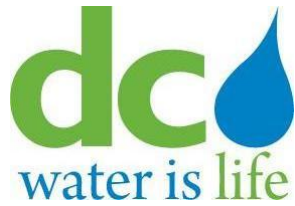
Beginning February 2015, reduction in biosolids production attributed to the implementation of the Digester Project

OCTOBER 2001 - OCTOBER 2015





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Cluster: BLUE PLAINS

Department: WASTEWATER TREATMENT PROCESS ENGINEERING

FUNCTIONS

BUDGET

FY 2017
\$7,991,000

POSITIONS

FY 2015

Authorized	42
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Average Positions Filled	26
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Year-End Positions Filled	23
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FY 2016	FY 2017
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40	40
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Process Engineering	Process Control Systems	Process Control Maintenance
10 - Positions	4 - Positions	26 - Positions
Maintain Process Control System (PCS) for Blue Plains Advanced Wastewater Treatment Plant	Establish Process Control operating targets for Blue Plains	Plan and coordinate all activities for corrective, preventive, and predictive maintenance
Provide Design and Construction interface to PCS	Optimize process, chemical, and power use at the Plant	Maintain electronic process control systems, flow measurement, metering and recording equipment for the Plant
Manage PCS hardware, software, maintenance, and support services	Provide design comments and support during construction of capital projects	
Troubleshoot PCS issues and train Process and Instrumentation staff	Troubleshoot process performance problems	

* Authorized headcount reduced from 42 in FY 2015 to 40 in FY 2016 and FY 2017 as a result of cluster group reorganization

WASTEWATER TREATMENT - PROCESS ENGINEERING

MISSION: To economically maintain DC Water's process equipment and facilities at the Blue Plains Advanced Wastewater Treatment Plant, ensuring that the operational and customer service objectives of the Authority are achieved.

BUDGET OVERVIEW: The approved FY 2017 operating budget decreased by approximately \$0.3 million below the approved FY 2016 budget due to decreases in contractual services and supplies.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	42	40	40	40
Average number of positions filled	23	26		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 2,974	\$ 3,325	\$ 4,591	\$ 4,591
Overtime	23	58	120	120
Non-Personnel Services:				
Supplies	314	330	644	628
Occupancy	27	57	34	64
Contractual	1,977	3,309	2,963	2,692
Equipment	35	9	59	16
Total Non-Personnel Services	2,354	3,704	3,700	3,400
Total Operations & Maintenance	\$ 5,328	\$ 7,030	\$ 8,291	\$ 7,991
Capital Equipment	\$ -	\$ 209	\$ 500	\$ 1,585
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Critical Equipment Availability (97%)	97%	97%	97%	97%

WASTEWATER TREATMENT – PROCESS ENGINEERING

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Provide guidance on set points and Plant operations
- Provide Process Engineering reviews on new Capital Projects in Planning and Design phases
- Continue to assist with Construction Project Commissioning phases
- Manage the Process Control System (PCS)
- Continue the Equipment Reliability Program (predictive maintenance/condition monitoring)
- Continue the Critical Spare Parts Inventory for process control equipment
- Continue the major critical equipment maintenance initiative across the plant
- Continue the Unit Shelf Replacement (spares) Program
- Startup and training for new capital projects – Main Process Train (MPT), Enhanced Nitrogen Removal Facility (ENRF), and Final Dewatering Facility (FDF), which is a part of the Digester Project
- Develop and deploy key performance indicators in each group
- Reorganize Process Engineering roles, responsibilities, and reporting structure

FY 2017 Major Recommended Activities and Changes

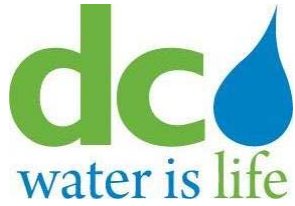
- Continue to build on planned activities of FY 2016
- Startup and training for new capital projects – Filtrate Treatment Facilities (FTF)
- Optimize recently commissioned capital projects - MPT, ENRF and FDF
- Conduct process design reviews for Tunnel Dewater Pump Station and Enhanced Clarification Facilities (TDPS-ECF))
- Fine tune and monitor key performance indicators in each group
- Conduct aggressive training program to support reduction in contracted work force

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Increased preventive maintenance costs for new equipment and facilities
- Increased effort for training and commissioning of new facilities – ENRF, MPT, and FDF in FY 2016



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Cluster: BLUE PLAINS

Department: MAINTENANCE SERVICES

FUNCTIONS

BUDGET

**FY 2017
\$ 21,057,000**

POSITIONS

FY 2015

Authorized	116
Average Positions Filled	106
Year-End Positions Filled	108
FY 2016	FY 2017
119	116

Electrical Maintenance	Mechanical Maintenance	Maintenance Management
34 - Positions	69 - Positions	13 - Positions
Maintain electrical process control systems, equipment, and components for the Blue Plains Advanced Wastewater Treatment Plant	Maintain mechanical process systems and equipment for the Plant	Plan and coordinate all activities for corrective, preventive, and predictive maintenance
Operate and maintain electrical power distribution system from 5kv to 69kv, electrical control systems for all process equipment and all DC Water facilities	Plan, schedule, and perform condition monitoring for all process equipment at all DC Water facilities	Plan and operate support systems to manage maintenance by planning, estimating, inspecting, and scheduling maintenance activities
Inspect and maintain cranes for all DC Water facilities		Coordinate work through operations and engineering and provide administrative support

MAINTENANCE SERVICES

MISSION: To economically maintain DC Water's process equipment and facilities at the Blue Plains Advanced Wastewater Treatment Plant, ensuring that the operational and customer service objectives of the Authority are achieved.

BUDGET OVERVIEW: The approved FY 2017 budget is higher than the approved FY 2016 budget by \$0.50 million primarily due to increases in projected personnel services and supplies cost partially attributable to new safety requirements for fire retardant uniforms; offset in part by projected decreases in contractual costs.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	117	116	119	116
Average number of positions filled	100	107		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 10,950	\$ 11,952	\$ 12,204	\$ 12,578
Overtime	1,227	979	700	700
Non-Personnel Services:				
Supplies	1,913	3,088	3,054	3,457
Utilities	134	126	174	164
Contractual Services, etc.	4,175	3,589	4,846	4,639
Small Equipment	72	148	271	220
Total Non-Personnel Services	6,293	6,950	8,345	8,480
Total Operations & Maintenance	\$ 17,243	\$ 18,902	\$ 20,549	\$ 21,057
Capital Equipment	\$ 1,307	\$ 2,035	\$ 3,000	\$ 3,250
Targeted Performance Measures				
Critical Equipment Availability (97%)	98%	98%	98%	98%

MAINTENANCE SERVICES

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue to perform preventive, corrective and predictive maintenance services in all treatment process area equipment to improve reliability, reduce down time and maximize asset life
- Assume all Methanol maintenance activities and eliminate contractor support
- Continue critical equipment scoring and implementation in Maximo
- Continue critical spare parts inventory evaluation process and develop the part “Item Master” in Maximo
- Track, report, and analyze asset failures by cost to identify “poor performers”
- Continue Preventive Maintenance Validation Team’s improvement program
- Continue to build equipment reliability program (predictive maintenance/condition monitoring)
- Continue building a world class lubrication program within the equipment reliability group
- Continue to increase safety awareness by planning and scheduling work orders and enhancing equipment specific LOTO (lockout/tag-out) procedure
- Develop and deploy new key performance indicators to measure maintenance efficiency and productivity
- Increase level of work order planning and schedule compliance to reduce level of reactive maintenance
- Train staff on all future process equipment: Tunnel Pump Station, Enhanced Clarification, and Filtrate (Demon) Process

FY 2017 Major Recommended Activities and Changes

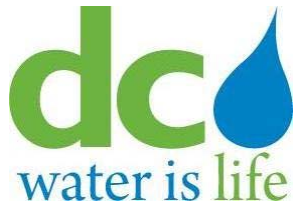
- Continue building upon the planned activities of FY 2016
- Train staff on Reliability Centered Maintenance techniques
- Implement and support asset management program
- Improve kiting and staging of parts for planned work to increase staff “wrench time” and utilization
- Assume maintenance responsibilities and commission Filtrate Treatment Facility

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Maintenance services will be assuming all maintenance responsibilities for the Cambi Thermal Hydrolysis Process, Main Process Train and the Filtrate Treatment (Demon) System
- Tunnel Pump Station and Enhanced Clarification systems to be commissioned in FY 2018



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Cluster: CUSTOMER CARE & OPERATIONS

Department: WATER SERVICES

FUNCTIONS

BUDGET

FY 2017
\$22,936,000

POSITIONS

FY 2015

Authorized	190
Average Positions Filled	160
Year-End Positions Filled	166
FY 2016	FY 2017
190	190

Distribution Maintenance	Distribution Control	Technical Support Services	Drinking Water
64 – Positions	86 - Positions	19 - Positions	21 - Positions
Repair and replace water main service lines, valves and hydrants	Inspect, exercise and perform preventative maintenance on the 40,000 system valves	Establish and administer a comprehensive asset management program for both water and sewer systems	Environmental Protection Agency (EPA) drinking water compliance, monitoring and reporting
Lead Leak Detection efforts and Tap abandonment for the Authority	Administer the Flushing Program and perform minor valve leak repairs	Administer Public Space Restoration Program and associated contracts	Control and monitor corrosion in the water distribution system, and conduct routine water quality analysis
Manage fire hydrant contracts and respond to all fire hydrant inquiries	Manage the Valve Coordination Control program and test valve shutdown plans for CIP construction projects	Manage and direct Operating and CIP budgets, including construction projects inspections	Perform distribution system research (i.e. lead and copper, discolored water, microbial)
Support departmental safety efforts and assist in investigations as first responder during emergencies	Inspect, exercise and perform preventive maintenance on all the hydrants in the system	Update asset inventory data & perform QA/QC analysis	Manage cross connection program, direct daytime flushing activities

WATER SERVICES

MISSION: To operate and maintain a potable water distribution system, which delivers safe drinking water to DC Water's customers. Water Services will ensure that water distribution meets or exceeds the applicable water quality regulations promulgated by the Safe Drinking Water Act and is provided in a reliable manner.

BUDGET OVERVIEW: The approved FY 2017 budget is higher than the approved FY 2016 budget by approximately \$0.4 million primarily due to personnel service cost adjustments and reductions in the water main infrastructure emergency and pavement cut repairs, based on historical and current spending trends.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
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Positions: (FTE's)

Number of authorized positions	204	190	194	190
Average number of positions filled	163	163		

Operating Expenses (\$000's)

Personnel Services including Overtime	\$ 16,889	\$ 17,767	\$ 17,735	\$ 18,301
Overtime	1,473	1,618	980	980

Non-personnel Services:

Supplies & Chemicals	1,076	951	709	665
Utilities	3,440	276	282	210
Contractual Services, etc.	2,833	2,975	3,669	3,610
Water Purchases	28,407	-	-	-
Small Equipment	8	5	180	150
Total Non-Personnel Services	35,763	4,207	4,840	4,635

Total Operations & Maintenance	\$ 52,652	\$ 21,974	\$ 22,574	\$ 22,936
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Capital Equipment	\$ 818	\$ 21	\$ 400	\$ 400
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Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Maintain full compliance with Safe Drinking Water Act standards for positive coliform results (less than 5%)	<5%	<5%	<5%	<5%
Flush at least 50% of the 1,300 miles of pipe in the distribution system annually	50%	50%	50%	50%
Exercise 18,000 - 23,000 valves annually	25,000	25,000	25,000	25,000
Maintain a 99% fire hydrant operational rate	99%	99%	99%	99%
Respond to 95% of all emergency service orders in less than 45 minutes	97%	97%	97%	97%
Repair 90% of reported main leaks within 10 days	90%	90%	90%	90%

WATER SERVICES

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue to evaluate business processes to include work prioritization, resource scheduling, Quality Assurance and Quality Control (QA/QC), and standardizing Customer Care and Operations business rules through the Maximo work order system
- Continue to expand the Cross Connection Prevention program to improve processes, increase resources, update regulations and implementation of applicable fees and fines
- Widen the ongoing water quality research program to better assess root causes for all water quality complaints
- Continue implementation of the Asset Management Program to improve predictive, preventative and corrective maintenance
- Continue to inspect all public fire hydrants at least once a year and perform required repairs
- Improve system resiliency by beginning the installation of system locks on critical assets within the distribution system (fire hydrants, valves and manholes)
- Continue to flow test 1,500 hydrants per year in accordance with the requirements of the Memorandum of Understanding (MOU) with DC Fire and Emergency Management Services (DC FEMS), as well as respond to new service connection requests from developers
- Evaluate future treatment options for the treatment plants. The evaluation will include the water quality impacts within the distribution system while incorporating system hydraulics

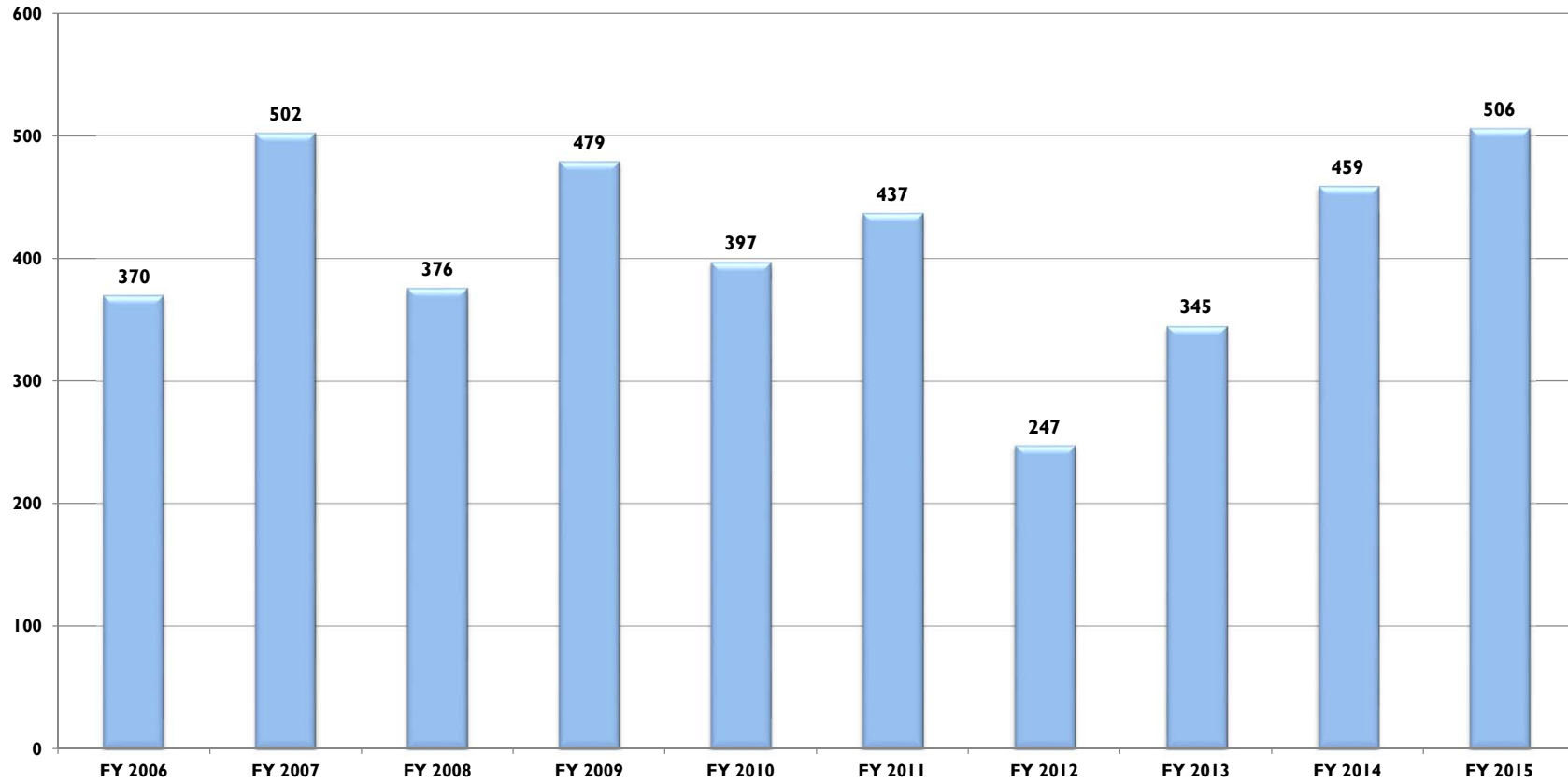
FY 2017 Major Recommended Activities and Changes

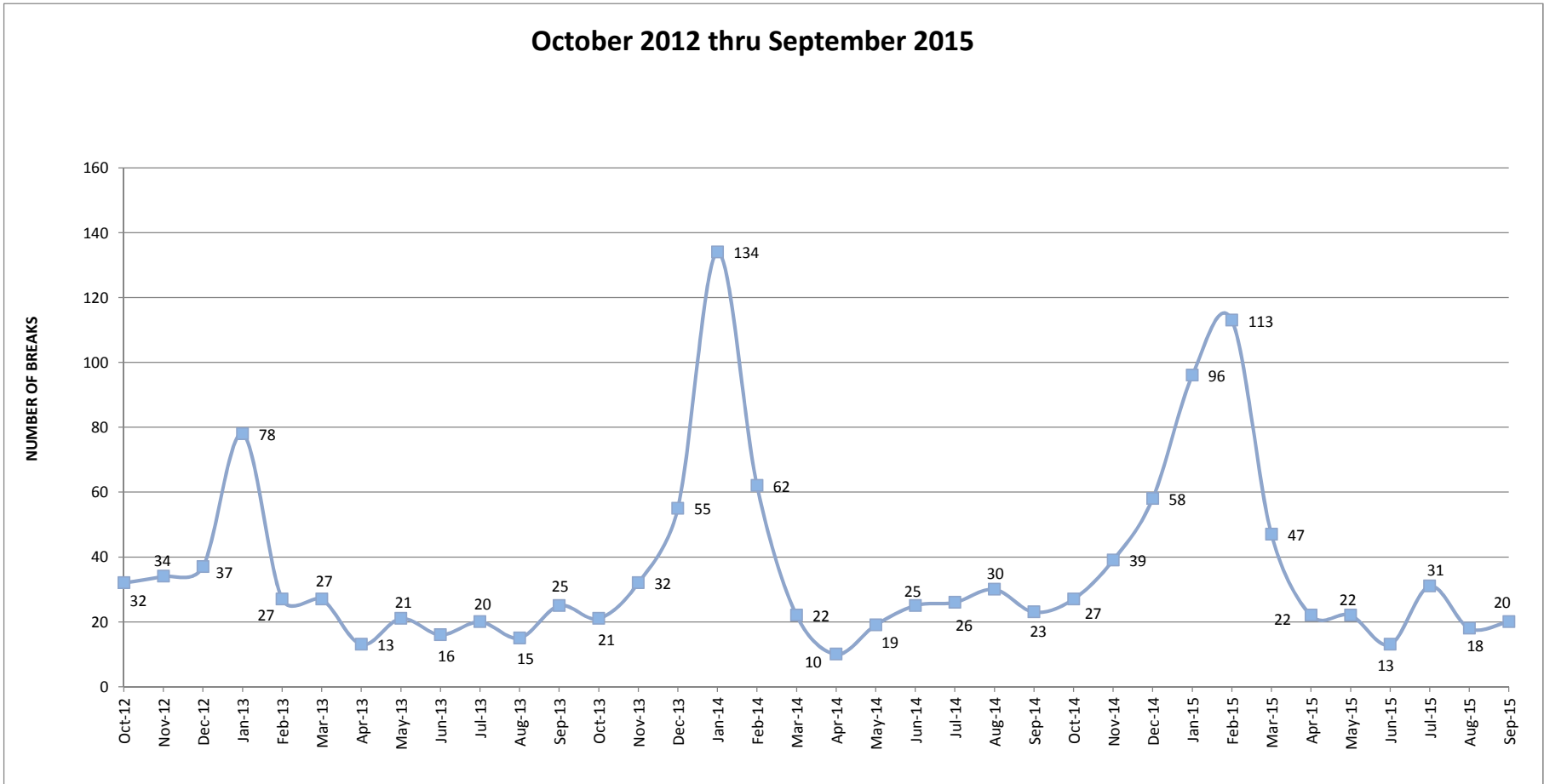
- Continue to evaluate and adjust operational activities to provide optimal use of resources provided to meet all regulatory requirements and customer needs/expectations
- Continue implementation of the Asset Management Program to improve predictive, preventative and corrective maintenance
- Develop the ability to interface Asset Management Software to provide real-time data on open/shut status to GIS
- Provide enhanced planning, execution, procedural guidance and overview of the repair/replacement process, ensuring that DC Water/ Industry standards are maintained at all times for the water distribution system assets
- Continue to inspect all public fire hydrants at least once a year and perform required repairs
- Continue public fire hydrant system resiliency by beginning the installation of custodial locks on all public fire hydrants
- Continue future treatment options for the treatment plants

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- No major items identified

FY 2006 - FY 2015







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Cluster: CUSTOMER CARE & OPERATIONS

Department: SEWER SERVICES

FUNCTIONS

BUDGET

**FY 2017
\$15,077,000**

POSITIONS

FY 2015

Authorized	119
Average Positions Filled	108
Year-End Positions Filled	105
FY 2016	FY 2017
120	119

Inspection & Maintenance	Construction & Repair	Catch Basin
59 – Positions	41 - Positions	19 - Positions
Inspect public sewers and sewer laterals. Clean sewers and inlet/outlet structures. Operate and maintain sewer regulator structures	Install and repair sewer mains and sewer laterals	Responsible for the cleaning and maintenance operations of regular catch basins, storm ceptors, and grate ponds
Remove floatable debris, and Monitor & Control Operations	Manage construction contracts, and install and repair catch basins	Oversee the contractual maintenance program for storm water structures, filter bio-retention and water quality catch basins cleaning
Clean catch basins and enforcement of Fats, Oils and Grease (FOG) removal program	Manage CIP projects and inspect in-house projects	

SEWER SERVICES

MISSION: To perform engineering planning, design, and construction management necessary to execute DC Water's Capital Improvement Program (CIP); to provide assistance and advice to operating departments and management on engineering aspects of the Authority's operation and facilities. To develop and maintain engineering documentation of the Authority's facilities and systems; and to assist the Authority with environmental policy.

BUDGET OVERVIEW: The approved FY 2017 budget is lower than the approved FY 2016 budget by \$0.2 million primarily due to reduction in supplies and other shared matrix costs items such as uniforms and phone lines.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	158	119	120	119
Average number of positions filled	140	108		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 14,116	\$ 11,198	\$ 11,718	\$ 11,711
Overtime	1,476	941	900	900
Non-Personnel Services:				
Supplies	586	498	572	472
Chemicals	6	14	15	40
Utilities	3,348	1,011	956	803
Contractual Services, etc.	1,666	1,242	1,945	1,991
Small Equipment	14	14	60	60
Total Non-Personnel Services	5,620	2,779	3,548	3,366
Total Operations & Maintenance	\$ 19,736	\$ 13,978	\$ 15,267	\$ 15,077
Capital Equipment	\$ 24	\$ 44	\$ 400	\$ 400
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Percentage of KPI's Completed	85%	80%	80%	80%
Use 100% of Clean Water Act grant funds	100%	100%	100%	100%
Use 100% of Safe Drinking Water Act grant funds	100%	100%	100%	100%

SEWER SERVICES

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue the implementation of an asset management strategy and system for water and sewer infrastructure in conjunction with Department of Water Services
- Continue replacement of Sewer Laterals using Trenchless Technologies
- Work with the Departments of Information Technology and Fleet Management to install laptops with GIS and Maximo capabilities in sewer service vehicles
- Conduct cleaning of water quality catch basins in accordance with DOEE cleaning requirements
- Plan and implement Standard Operating Procedures(SOP) to maximize flow to Blue Plain during wet weather events with DC Clean Rivers Program
- Work with DETS to implement Odor, Corrosion and Green House Gases Master Plan for Collection System
- Coordinate DSS involvement with DETS/Clean Rivers Program and Department of Distribution and Conveyance Systems (DDCS)
- Coordinate Asset Management and Maximo Enhancement with Water Services and Information Technology departments
- Administer construction contract for sewer main line rehabilitation and sewer lateral replacement;
- Continue to perform close circuit television Inspections on major storm and sanitary sewer lines
- Provide Condition Assessment and Failure Analysis on obstructed sewer mains and laterals
- Focus on a root control program capable of bringing corrective maintenance work in-house rather than having it performed by contractors
- Provide extensive training for new Utility Service Worker positions that will support the inspection and maintenance of sewer mains and lateral lines

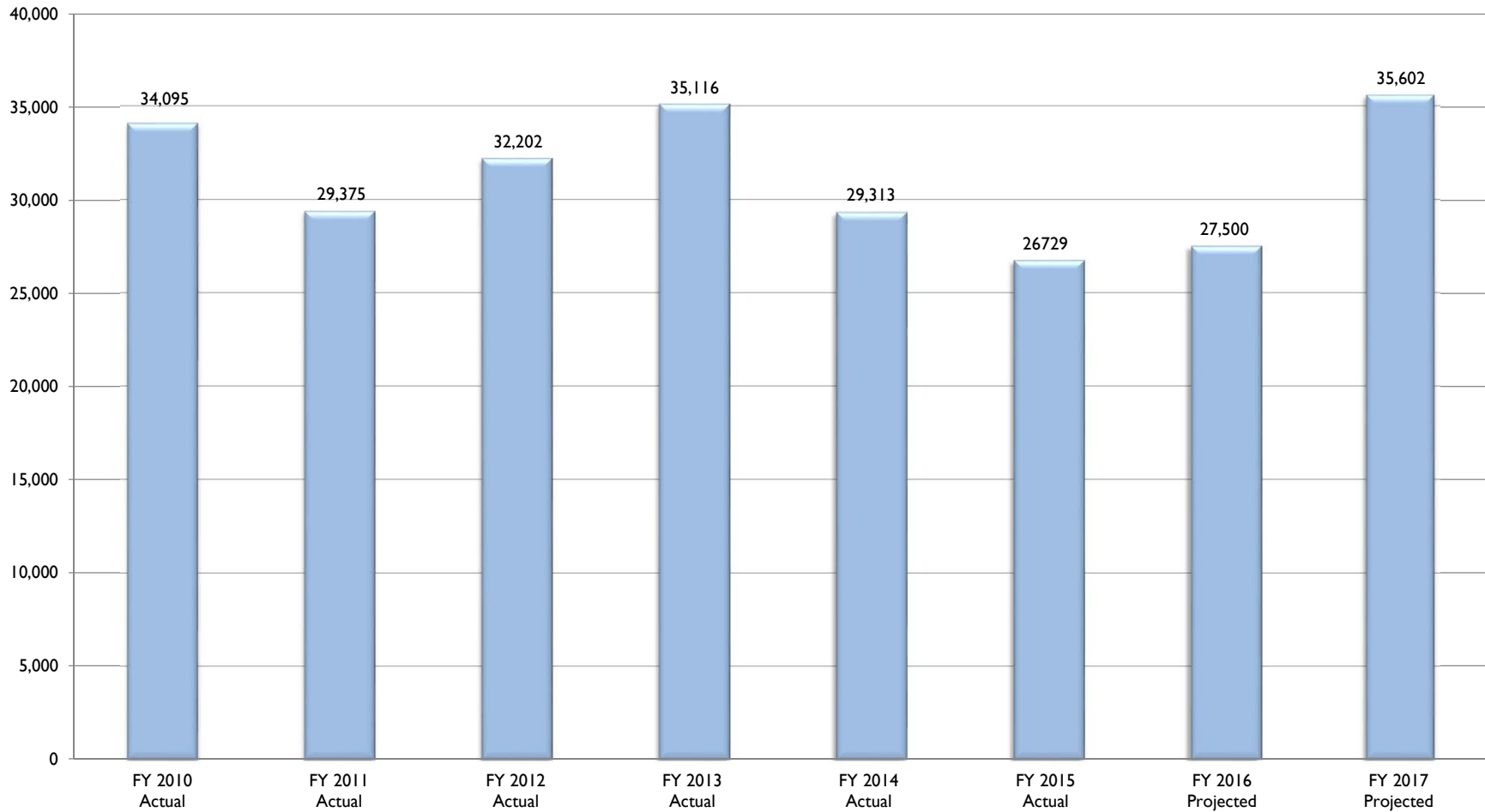
FY 2017 Major Recommended Activities and Changes

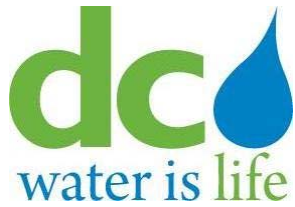
- Begin construction improvements at Poplar Point Pumping Station to include relocation of a major section of mainline sewer
- Work with DDCS to begin new program that will integrate rainfall prediction into SCADA to improve operational planning during high flow forecast
- Complete research on Odor Corrosion and Green House Gases Master Plan and develop plan to implement recommendations
- Continue coordination efforts with DC Clean Rivers Program on construction activities that interface with sewer operations
- Work with DETS to complete the rehabilitation on the segment of the Upper Potomac Interceptor Sewer that is currently out of service, and located in Georgetown
- Continue replacement of Sewer Laterals using Trenchless Technologies

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Manage the FOG program to effectively reduce the adverse impact on the sewer system of odors, sewer backups, corrosion in pipes and excessive wear on pumps

FY 2010 - FY 2017





Cluster: CUSTOMER CARE & OPERATIONS

Department: CUSTOMER SERVICE

BUDGET

**FY 2017
\$18,679,000**

POSITIONS

FY 2015

Authorized	124
Average Positions Filled	111
Year-End Positions Filled	113
FY 2016	FY 2017
124	124

FUNCTIONS

Customer Care	Credit and Collections	Billing Services and Control	Meter and Field Services
51 - Positions	11 - Positions	19 - Positions	43 - Positions
Respond to customer calls, correspondence and internet requests	Manage receivables and collections process on delinquent accounts, including multi-family service termination, property lien filing, dunning process and receivership	Manage billing process and improvement of customer information and billing system. Perform interior inspections, and terminations of service for non-payment of bills	Maintain, install, test, repair and replace meters. Provide planning and project management for future systems implementations
Assist customers in Payment Office	Manage Customer Assistance Program	Monitor and assist large accounts	Manage meter replacement/automated meter reading project

CUSTOMER SERVICE

MISSION: To provide superior, equitable and responsive customer service to the diverse community that we serve.

BUDGET OVERVIEW: The approved FY 2017 budget is higher than the approved FY 2016 budget by approximately \$1.2 million primarily due to personnel service cost adjustments, and increase in contracts costs for credit card fees, mail room, customer satisfaction survey, and shared matrix items.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	125	124	124	124
Average number of positions filled	113	111		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 10,683	\$ 11,292	\$ 11,739	\$ 12,206
Overtime	194	263	260	260
Non-Personnel Services:				
Chemicals and Supplies	59	135	138	171
Utilities	1,017	1,105	1,170	1,239
Contractual Services, etc.	4,049	4,442	4,405	5,013
Small Equipment	45	35	48	50
Total Non-Personnel Services	5,170	5,717	5,762	6,472
Total Operations & Maintenance	\$ 15,852	\$ 17,009	\$ 17,500	\$ 18,679
Capital Equipment	\$ 1,583	\$ 5,932	\$ 7,384	\$ 6,707
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Calls answered within 40 seconds	86%	100%	100%	100%
Percentage of AMR Meters Read	90%	100%	100%	100%
Sustained Retail 90-day receivable balance (not including IAC)	\$5.3 Million	\$6.4 Million	\$6.8 Million	\$7.0 Million
Top 100 Accounts Billed as Scheduled	98%	98%	98%	98%

CUSTOMER SERVICE

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Issue Request for Proposal (RFP) for new Customer Information System (CIS) implementation
- Begin wide-scale replacement of up to 85,000 meters with new Automatic Meter Read (AMR) devices
- Update Impervious Area Database (IADB) with new plan metric data and revise CIS with new data
Open alternate payment sites for customers

FY 2017 Major Recommended Activities and Changes

- Continue AMR installations
- Migrate CIS system to new selection
- Prepare for move to new building

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Determination of in-house or hosted solution for CIS system will affect FY 2017 Capital and Operating budgets differently
- Acceleration of the AMR replacement/ purchase program may be an opportunity to lower operating costs



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Cluster: CUSTOMER CARE & OPERATIONS
Department: DISTRIBUTION & CONVEYANCE SYSTEMS

FUNCTIONS

BUDGET

FY 2017
\$ 50,075,000

POSITIONS

FY 2015

Authorized	88
Average Positions Filled	66
Year-End Positions Filled	73
FY 2016	FY 2017
87	88

Pumping Operations	SCADA Process Control	Maintenance	Potomac Interceptor	Emergency Management
28 - Positions	15 - Positions	34 - Positions	4 - Positions	7 - Positions
Operate Water Pumping Stations, Storage Facilities and Water Towers	Operate and maintain SCADA Applications, Hardware and Network Support	Plan, coordinate and perform all corrective, emergency, preventive, and predictive maintenance	Operate and maintain Potomac Interceptor (PI) Sewer	Develop and administer the Emergency Management Program
Operate Sanitary and ensure Combined Sewer Facilities to maximize flow to Blue Plains	Perform Storm Water Pollution Prevention Plan inspections and reports	Maintain and troubleshoot mechanical process systems and equipment	Operate and maintain PI Flow Meters and odor control facilities and manholes	Direct emergency response and planning activities throughout the Authority
Inspect inflatable dams to proper function during rain events	Operate and maintain all Process Instrumentation and controls	Plan, schedule, and perform condition monitoring for process equipment	Manage Miss Utility service in VA and Montgomery County, MD	Emergency preparedness training for DC Water staff and contractors
Operate Northeast Boundary Swirl Facility	Facilitate, compile and administer Consent Decree reporting	Maintain/update Engineering Records	Monitor Right-of-Way to maintain integrity and prevent encroachment	Perform Vulnerability Assessments

DISTRIBUTION AND CONVEYANCE SYSTEMS

MISSION: To provide high resiliency, customer focused delivery of water distribution and sewer collection pumping services every minute of every day.

BUDGET OVERVIEW: The approved FY 2017 budget is lower than the approved FY 2016 budget by approximately \$0.9 million primarily due to personnel service cost adjustments and cost reductions in water purchase and utilities line items.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	34	88	87	88
Average number of positions filled	43	66		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 5,857	\$ 8,616	\$ 9,634	\$ 10,243
Overtime	279	860	750	750
Non-Personnel Services:				
Supplies	556	967	630	701
Chemicals	-	-	373	323
Utilities	14	4,282	4,935	4,450
Water Purchase	-	29,109	30,740	29,278
Contractual Services, etc.	1,330	2,458	4,382	4,854
Small Equipment	15	111	260	226
Total Non-Personnel Services	1,914	36,927	41,320	39,832
Total Operations & Maintenance	\$ 7,772	\$ 45,543	\$ 50,954	\$ 50,075
Capital Equipment	\$ 141	\$ -	\$ 400	\$ 400
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Critical Equipment Availability (98%)	98%	98%	98%	98%
Number of inspections completed on Potomac Interceptor meters	400	400	400	400

DISTRIBUTION AND CONVEYANCE SYSTEMS

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Ensure the integrity of Supervisory Control And Data Acquisition (SCADA) system, implementation and testing
- Establish and implement plans for disaster recovery
- Operate and maintain all process instrumentation, including Programmable Logic Controllers (PLCs) and Operator Interface Terminals (OITs)
- Ensure adequate flow and distribution of retail water throughout the District of Columbia
- Ensure maximization of the conveyance water to Blue Plains according to the Nine (9) Minimum Control Plan
- Coordinate, plan and perform all emergency, preventive and corrective maintenance operations for mechanical, electrical and industrial equipment
- Manage and develop the Emergency Management Program
- Direct emergency response and planning activities throughout the Authority
- Implement a Critical Infrastructure Protection Plan (CIPP) and resource management plan
- Expand emergency preparedness training for employees
- Enhance the contract language for emergency response activities
- Perform Potomac Interceptor Odor Control Carbon replacement at Odor Control Facilities located in the District of Columbia and Montgomery County, Maryland

FY 2017 Major Recommended Activities and Changes

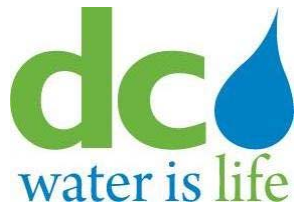
- Continue to implement plans for compliance inspections
- Expand safety program by ensuring compliance at all work areas throughout the District of Columbia
- Increase availability of data through SCADA system, by increasing information through SCADA system to all water and sewer facilities throughout the District of Columbia

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- No major items identified



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Cluster: CHIEF ENGINEER

Department: ENGINEERING and TECHNICAL SERVICES

FUNCTIONS

BUDGET

FY 2017
\$ 25,126,000

POSITIONS

FY 2015

Authorized	166
Average Positions Filled	145
Year-End Positions Filled	153
FY 2016	FY 2017
166	166

Program Management	Design	Engineering Management	Planning	Water & Sewer Construction	Blue Plains Project
11 - Positions	53 - Positions	20 - Positions	14 - Positions	60 - Positions	8 - Positions
Develop and maintain long-term facility planning process and generate bid documents for projects	Review, create and maintain standards to ensure technical adequacy	Develop and maintain contract specification, solicitations, awards and monitor DC Water budgets	Develops the 10-year CIP for all water and sewer system infrastructure improvements. Acquire permits needed for CIP programs.	Administer contractors for new construction, major repairs and modifications to water and sewer systems	Perform design reviews and coordinate construction work with other departments
Provide data for production of the Capital Improvement Plan (CIP) and support for environmental policy issues affecting DC Water	Manage pipeline and facility CIP project designs outside Blue Plains and provide technical engineering expertise to support operating departments	Ensure contract documents comply with DC Water and Environmental Protection Agency Procurement Regulations	Coordinate with user jurisdictions for capital and operations and maintenance cost allocations of joint user facilities	Inspect construction of DC Water facilities by contractors and other District of Columbia agencies and private developers	Administer contracts for construction management, new construction, major repairs, modifications and start-up
Manage professional engineering firms retained for program management	Provide survey support for DC Water and maintain Enterprise Geographical Information System	Manage and track the CIP, EPA grants and engineering systems hardware and software	Continually inspect and assess the condition of buried assets and facilities		

ENGINEERING AND TECHNICAL SERVICES

MISSION: To perform engineering planning, design, and construction management necessary to execute DC Water's Capital Improvement Program (CIP); to provide assistance and advice to operating departments and management on engineering aspects of the Authority's operation and facilities. To develop and maintain engineering documentation of the Authority's facilities and systems; and to assist the Authority with environmental policy.

BUDGET OVERVIEW: The approved FY 2017 budget is higher than the approved FY 2016 budget by \$1 million primarily due to personnel service cost adjustments, and contractual services for shared matrix costs items and Metropolitan Washington Council of Government (COG) services.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	166	166	166	166
Average number of positions filled	145	145		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 20,130	\$ 21,066	\$ 21,686	\$ 22,102
Overtime	904	3,821	1,063	1,063
Non-Personnel Services:				
Chemicals and Supplies	93	126	141	176
Utilities	332	293	433	439
Contractual Services, etc.	1,484	1,555	1,701	2,327
Small Equipment	-	-	108	82
Total Non-Personnel Services	1,909	1,975	2,383	3,025
Total Operations & Maintenance	\$ 22,040	\$ 23,040	\$ 24,069	\$ 25,126
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Percentage of KPI's Completed	85%	80%	80%	80%
Use 100% of Clean Water Act grant funds	100%	100%	100%	100%
Use 100% of Safe Drinking Water Act grant funds	100%	100%	100%	100%

ENGINEERING & TECHNICAL SERVICES

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Validate and prioritize Capital Improvement Program (CIP) projects using the enterprise Asset Management Framework
- Complete Water, Wastewater Treatment and Sewer Facility Plans and corresponding Asset Management Plans
- Improve metering and development of the sewer hydraulic model
- Acquire permits and approvals needed to execute various CIP projects
- Continue condition assessment of large diameter water mains
- Inspect and assess the condition of major and critical trunk sewers and interceptors
- Lead and manage timely and on-budget delivery of Capital Improvement Program (CIP) projects
- Continue implementing the Enhanced Nitrogen Removal (ENR) Project at the Blue Plains AWTP and finalize the updated Facility Plan
- Ensure EPA Fair Share Objectives are met or exceeded
- Complete Biosolids Management Plan projects
- Obtain grant funds, as appropriate, under the Clean Water Act and the Safe Drinking Water Act
- Ensure all grant funding is obligated in accordance with grant requirements

FY 2017 Major Recommended Activities and Changes

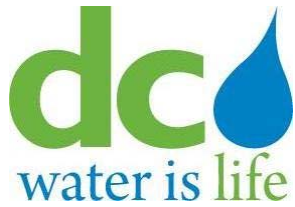
- Validate and prioritize Capital Improvement Program (CIP) projects using the enterprise Asset Management Framework
- Acquire permits and approvals needed to execute various CIP projects
- Continue to inspect and assess major and critical trunk sewers and interceptors
- Continue condition assessment of large diameter water mains
- Continue to lead and manage timely and on-budget delivery of Capital Improvement Program (CIP) projects
- Implement the Blue Plains AWTP Facility Plan and further define Blue Plains CIP projects
- Ensure that the projects related to the Total Nitrogen Project and the Tunnel Dewatering Pump Station and Enhanced Clarification Facilities are completed on schedule
- Begin Design/Build on Northeast Boundary Tunnel, the next phase of the Clean Rivers Project

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Additional staffing to support implementation of the \$3.66 billion CIP for FY 2016 – FY 2025



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BUDGET

**FY 2017
\$3,023,000**

POSITIONS

FY 2015

Authorized	16
Average Positions Filled	13
Year-End Positions Filled	14
FY 2016	FY 2017
16	16

Cluster: CHIEF ENGINEER

Department: DC CLEAN RIVERS (CSO - LTCP)

FUNCTIONS

DCCR Planning and Design	DCCR Construction	DCCR Green Infrastructure (GI)
6 - Positions	6 - Positions	4 - Positions
Manage and oversee the planning and design phase of the \$2.6 billion, 20 year Clean Rivers Project	Manage and oversee the construction phase of the 20 year Clean Rivers Project	Manage and oversee the completion of the Green Infrastructure (GI) Program, siting and planning for GI projects
Oversee the program consultant's management of design contracts	Ensure adherence to all construction related consent decree requirements and guide constructability review efforts	Manage collaboration with external stakeholders including MOU development and negotiation with District
Oversee and guide value engineering efforts to improve the quality and design cost effectiveness	Develop risk mitigation strategies for all Clean Rivers projects, inspect tunnel construction and other CSO abatement facilities	Manage the design and construction of GI Challenge
Ensure adherence to all design related consent decree milestones	Identify and mitigate potential project delay and scope growth	Ensure adherence to all GI consent decree milestones

CLEAN RIVERS (CSO LTCP)

MISSION: To develop, design, construct and implement the Authority’s 20-year DC Clean Rivers Project (aka Combined Sewer Overflow Long Term Control Plan) that includes federally enforceable consent decree driven milestones.

BUDGET OVERVIEW: The approved FY 2017 budget has no significant changes to the approved FY 2016 budget.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	16	16	16	16
Average number of positions filled	11	13		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 2,146	\$ 2,342	\$ 2,713	\$ 2,759
Overtime	10	9	5	5
Non-Personnel Services:				
Supplies	4	5	16	10
Utilities	58	77	107	97
Contractual Services, etc.	53	63	159	157
Small Equipment	-	-	-	-
Total Non-Personnel Services	115	145	282	265
Total Operations & Maintenance	\$ 2,261	\$ 2,487	\$ 2,996	\$ 3,023
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Meet all CSO LTCP consent decree milestones	100%	100%	100%	100%
Meet Mayor's Task Force commitments to Northeast Boundary neighborhoods	100%	100%	100%	100%

CLEAN RIVERS (CSO LTCP)

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue design and implementation of DC Clean Rivers Project
- Complete construction of the First Street Tunnel, Blue Plains Tunnel (a four mile section of the Anacostia River Tunnel) and Anacostia River Tunnel
- Complete final design of the Green Infrastructure (GI) Challenge projects
- Complete required monitoring of the Low Impact Development Retrofit at DC Water Facilities
- Continue design of the Northeast Boundary Tunnel
- Continue construction of the Main Pumping Station Diversions, Poplar Point Pumping Station Replacement, and Joint Base Anacostia-Bolling (JBAB) Overflow and Diversions Structures
- Continue planning for the Potomac Tunnel
- Complete the development of an Environmental Impact Statement (EIS) for Potomac River
- Complete GI Program Plan
- Complete RFP development and begin procurement for Potomac River GI Project, and Rock Creek GI Project I (including GI Challenge projects)
- Begin design for Piney Branch Diversion Structure Improvements
- Continue MOU development and negotiations with District regarding GI implementation

FY 2017 Major Recommended Activities and Changes

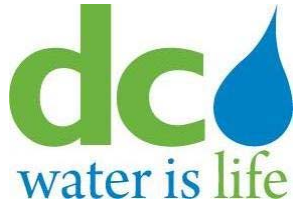
- Continue design and implementation of DC Clean Rivers Project
- Complete construction of the Anacostia River Tunnel
- Start Construction of the Northeast Boundary Tunnel
- Complete construction of the Main Pumping Station Diversions, Poplar Point Pumping Station Replacement, and Joint Base Anacostia-Bolling (JBAB) Overflow and Diversions Structures
- Continue planning for the Potomac Tunnel
- Complete procurement and begin construction for Potomac River GI Project I, and Rock Creek GI Project I (including GI Challenge projects)
- Complete design and begin procurement for Piney Branch Diversion Structure Improvements
- Complete MOU with District regarding GI implementation
- Ensure that the projects related to the Total Nitrogen Program Area and the Tunnel Dewatering Pump Station and Enhanced Clarification Facilities are completed on schedule

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Green Infrastructure initiative will require an increase in operating expenditure due to anticipated increase of GI staff



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Cluster: CHIEF ENGINEER

Department: PERMIT OPERATIONS

BUDGET

**FY 2017
\$ 2,244,000**

FUNCTIONS

POSITIONS

FY 2015

Authorized	15
Average Positions Filled	15
Year-End Positions Filled	14
FY 2016	FY 2017
15	15

15 - Positions	
Review and approve permit applications	
Issue approvals to connect to the public water and sewer system	
Ensure development community compliance with DC Water design standards, criteria and specifications	
Evaluate impact of proposed development on water and sewer infrastructure for capacity and hydraulic grade	
Ensure compliance with combined sewer system/DC Clean Rivers program initiatives	
Coordinate with various DC agencies (DCRA, DDOT and DDOE) in support of the District's permit procedures	
Update and/or create customer service records (Premises) and the GIS database	
Assess and collect fees for permit review, fixed fee services, and inspection services	

PERMIT OPERATIONS

MISSION: To manage DC Water's development and permit services.

BUDGET OVERVIEW: The approved FY 2017 budget is relatively flat compared to the approved FY 2016 budget.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	15	15	15	15
Average number of positions filled	14	15		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 1,529	\$ 1,699	\$ 1,705	\$ 1,741
Overtime	2	3	15	15
Non-Personnel Services:				
Supplies	3	5	24	26
Utilities	275	295	338	340
Contractual Services, etc.	69	76	147	138
Small Equipment	-	-	-	-
Total Non-Personnel Services	348	376	509	503
Total Operations & Maintenance	\$ 1,877	\$ 2,075	\$ 2,214	\$ 2,244
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Process all permit applications in accordance with the service level agreement timeframe (85%)	85%	85%	85%	85%

PERMIT OPERATIONS

OVERVIEW

FY 2016 Major Planned Activities and Changes

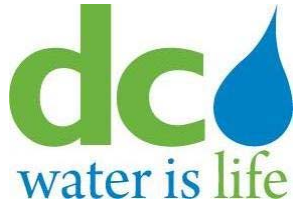
- Continue to expand Geographic Information System (GIS) capabilities with regard to dynamic tracking of private land development projects
- Migrate from simple GIS shapefiles to a more stable geodatabase that can be edited using the ArcGIS workflow management system, allowing more than one user in the Permit Operations office to add or edit shapefiles for project tracking and new water/sewer infrastructure
- Begin the process of integrating project tracking and new water/sewer infrastructure GIS shapefiles with Maximo
- Conduct team field trips and/or site visits with DC Water construction inspection staff members and/or sister agencies such as District of Columbia Department of Environment (DDOE), District of Columbia Department of Transportation (DDOT), Department of Consumer and Regulatory Affairs (DCRA) and Fire and Emergency Management Services (FEMS) so as to expand team knowledge of land development processes related to water/sewer
- Implement System Availability Fee (SAF) for new water and sewer connections and renovation or redevelopment projects for existing connections to the District’s potable water and sanitary sewer systems based on the SAF meter size

FY 2017 Major Recommended Activities and Changes

- Full integration of project tracking and new water/sewer infrastructure GIS shapefiles with Maximo
- Dynamic hyperlinks linking GIS shapefiles to Maximo, Livelink, etc., and/or vice versa with possible integration of Permit Operations GIS shapefiles with the Enterprise GIS system so that all DC Water employees with GIS access can see and use the Permit Operations project tracking and new water/sewer infrastructure data for general information



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Cluster: INDEPENDENT OFFICES

Department: GENERAL MANAGER

BUDGET

**FY 2017
\$4,373,000**

FUNCTIONS

POSITIONS

FY 2015

Authorized	15
Average Positions Filled	12
Year-End Positions Filled	15
FY 2016	FY 2017
15	15

15 - Positions
Provides overall operational and policy direction in support of the Board of Director's Strategic Plan
Organize, plan and direct all operations of the Authority
Ensure development and implementation of improvement processes to increase operational efficiencies

GENERAL MANAGER

MISSION: The General Manager's Office administers, plans, organizes and directs the operations of DC Water.

BUDGET OVERVIEW: The approved FY 2017 budget is higher than the approved FY 2016 budget by \$0.7 million due to higher projected personnel services costs associated with positions transferred from Human Capital Management (2) and Finance, Accounting, and Budget (1) with offsets in contractual services.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	11	15	11	15
Average number of positions filled	8	10		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 1,568	\$ 2,278	\$ 2,074	\$ 2,984
Overtime	7	12	8	8
Non-Personnel Services:				
Chemicals and Supplies	12	15	11	13
Utilities	25	28	30	29
Contractual Services, etc.	1,342	888	1,567	1,347
Small Equipment		-	-	-
Total Non-Personnel Services	1,380	931	1,609	1,389
Total Operations & Maintenance	\$ 2,949	\$ 3,209	\$ 3,683	\$ 4,373
Capital Equipment	\$ -	\$ 57	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Implement all policies and directives of the Board of Directors				

GENERAL MANAGER

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Implementation and oversight of the DC Water Strategic Plan (Blue Horizon 2020)
- Support Team Blue’s effort in creating a world class utility in service excellence, technology and environmental sustainability
- Develop and implement an innovation program in support of the Authority’s mission to be a world-class utility
- Develop and implement a comprehensive Leadership Development Program
- Administer oversight of DC Water operational and financial performance

FY 2017 Major Recommended Activities and Changes

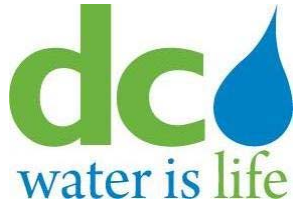
- Continue the major planned activities above, there are no additional changes planned in FY 2017

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- No major items identified



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BUDGET

**FY 2017
\$625,000**

POSITIONS

FY 2015

Authorized	2
Average Positions Filled	2
Year-End Positions Filled	2
FY 2016	FY 2017
2	2

Cluster: INDEPENDENT OFFICES

Department: OFFICE OF THE SECRETARY (BOARD)

FUNCTIONS

2 - Positions
Manage logistics for Board of Directors and Committee meetings, Public Hearings, Workshops, Strategic Planning Process and all other business activities of the Board
Manage and oversee the day-to-day operations of the Board of Directors and maintain custodial of all books, records and official documents of the Board
Administer the subpoena process and provide Notary Service for the Authority

OFFICE OF THE SECRETARY (BOARD)

MISSION: To support the Board of Directors in developing and reviewing the DC Water's strategic goals, providing executive level assistance in planning, coordinating and executing assignments, and ensuring that the Board's business and activities are effectively managed.

BUDGET OVERVIEW: The approved FY 2017 budget remains relatively flat compared to the approved FY 2016 budget.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	2	2	2	2
Average number of positions filled	2	2		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 218	265	270	\$ 282
Overtime	8	12	5	5
Non-Personnel Services:				
Chemicals and Supplies	10	19	18	18
Utilities	5	8	9	8
Contractual Services, etc.	194	149	316	316
Small Equipment	-	-	1	1
Total Non-Personnel Services	208	176	343	343
Total Operations & Maintenance	\$ 427	441	614	\$ 625
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Provide timely and accurate Board and Committee agendas, reports and minutes	100%	100%	100%	100%
Follow-up and complete Board actions	100%	100%	100%	100%

OFFICE OF THE SECRETARY (BOARD)

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue to draft and submit notices and agendas for all Board and Committee meetings and Public Hearings for publication in the District of Columbia Register as required by the Open Meetings Act of 2010
- Continue to publish all Board and Committee agendas, meeting materials and meeting minutes on DC Water’s website as required by the Open Meetings Act of 2010
- Continue to coordinate logistics for the Board’s Strategic Planning Session (retreat)
- Continue to coordinate the process to fill the expired and/or vacant Board appointments
- Continue to effectively monitor follow-up requests from the Board and Committees to ensure timely responses
- Continue to enhance data dissemination process for the Board, DC Water employees, the general public and stakeholders by use of state-of-the-art technology that supports Board’s Strategic Plan
- Continue to manage recordkeeping process by ensuring accuracy, comprehensiveness and effective maintenance of all Board related documents and materials
- Continue to work with Information Technology to secure, install and utilize state-of-the-art technology to ensure efficient and effective recording of proceedings for all Board and Committee meetings

FY 2017 Major Recommended Activities and Changes

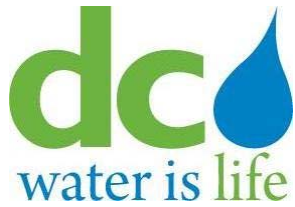
- No major activities and/or changes expected in FY 2017

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- No direct impact envisioned at this time



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Cluster: INDEPENDENT OFFICES

Department: INTERNAL AUDIT (outsourced)

BUDGET

**FY 2017
\$ 890,000**

POSITIONS

FY 2015

Authorized	0
Average Positions Filled	0
Year-End Positions Filled	0
FY 2016	FY 2017
0	0

FUNCTIONS

Oversight	Insight	Foresight
Conduct periodical audits	Assess programs and policies	Identify trends and challenges before they become crises
Conduct audits requested by the Board of Directors and/or the General Manager & Chief Executive Officer	Share best practices and benchmarking information	Identify risks and opportunities
Review of corporate governance	Provide ongoing feedback for re-engineering management practices and policies	Risk-based auditing

INTERNAL AUDIT

MISSION: The mission of Internal Audit (IA) is to provide independent, objective assurance and consulting activity that is guided by a philosophy of adding value to improve the operations of DC Water. IA assists the organization in accomplishing its objectives by bringing a systematic and disciplined approach to evaluate and improve the effectiveness of the organization's risk management, control and governance processes.

BUDGET OVERVIEW: The approved FY 2017 budget is relatively flat compared to the FY 2016 budget.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	-	-	-	-
Average number of positions filled				
Operating Expenses				
Personnel Services including Overtime	\$ -	\$ -	\$ -	\$ -
Overtime	-	-	-	-
Non-Personnel Services:				
Supplies	-	-	-	-
Utilities	6	7	9	8
Contractual Services, etc.	788	844	864	883
Small Equipment	-	-	-	-
Total Non-Personnel Services	794	850	872	890
Total Operations & Maintenance	\$ 794	\$ 850	\$ 872	\$ 890
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Internal Audit Work Planned	16	10	14	14

INTERNAL AUDIT

OVERVIEW

FY 2016 Major Planned Activities and Changes

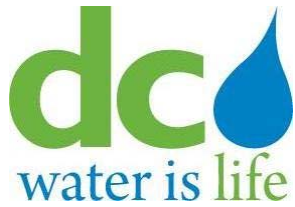
- Conduct an updated risk assessment and internal audit plan for the Authority
- Continue to manage DC Water’s hotline and implement the hotline protocol
- Report to the Board of Directors via the Audit Committee on the status of prior internal findings and management action plans
- Conduct follow-up procedures on newly presented audit findings and determine status of management action plans
- Implement committee and Board approved audit plans

FY 2017 Major Recommended Activities and Changes

- No major changes anticipated



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Cluster: INDEPENDENT OFFICES

Department: GENERAL COUNSEL

FUNCTIONS

BUDGET

FY 2017
\$ 5,823,000

POSITIONS

FY 2015

Authorized	15
Average Positions Filled	12
Year-End Positions Filled	11
FY 2016	FY 2017
15	15

Litigation	Administrative Law
Appellate	Board of Directors Support
Bankruptcy	Draft, review and advise on contract and Authority policies and procedures
Contract	Clean Water & Clean Air Acts Compliance
Construction	Construction Claims
Environmental	Safe Drinking Water Act & Regulatory Compliance
Procurement	Employment Law Matters
Tort	Intra-Governmental & Inter Jurisdictional Agreements
Receivership	Municipal Law & Real Property Matters
Employment	Pretreatment Enforcement Support
Foreclosures	Procurement Protests, Claims & Internal Appeals

GENERAL COUNSEL

MISSION: To support DC Water's mission by providing legal advice and services to the Board of Directors, the General Manager and the DC Water's departments.

BUDGET OVERVIEW: The approved FY 2017 budget is relatively flat compared to the approved FY 2016 budget.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	15	15	15	15
Average number of positions filled	11	12		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 1,633	\$ 1,534	\$ 1,927	\$ 2,017
Overtime	-	34	2	2
Non-Personnel Services:				
Chemicals and Supplies	5	5	8	8
Utilities	18	19	22	20
Contractual Services, etc.	3,566	5,456	3,776	3,779
Small Equipment				
Total Non-Personnel Services	3,589	5,480	3,805	3,806
Total Operations & Maintenance	\$ 5,222	\$ 7,014	\$ 5,733	\$ 5,823
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Hours of employee time spent on direct work 1,700	1,700	1,700	1,700	1,700

GENERAL COUNSEL

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue to manage litigation
- Continue to provide support to Clean Rivers Project and other long term Capital Improvement Program (CIP) Projects
- Provide legal support for the ongoing Long Term Control Plan (LTCP) & CIP projects
- Provide legal support for Green Infrastructure activities

FY 2017 Major Recommended Activities and Changes

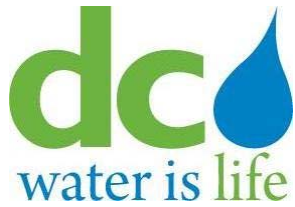
- Provide legal support to major construction projects
- Continue to provide support for Green Infrastructure activities
- Provide legal support in environmental issues affecting DC Water CIP Projects and ongoing operations

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Obtain environmental permits needed for operations
- National Pollutant Discharge Elimination System (NPDES) Permit negotiations
- Provide legal support for the ongoing LTCP & CIP and Green Infrastructure activities



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BUDGET

FY 2017
\$2,272,000

POSITIONS

FY 2015

Authorized	13
Average Positions Filled	13
Year-End Positions Filled	12
FY 2016	FY 2017
13	13

Cluster: INDEPENDENT OFFICES

Department: EXTERNAL AFFAIRS

FUNCTIONS

Production and Operations	Communications and Government Relations	Public Outreach
4 - Positions	6 - Positions	3 - Positions
Facilitate communications training for employees (e.g. media speakers bureau, focus groups)	Prepare speeches, editorials, special reports and stakeholder presentations as well as articles for community and weekly newspapers and press releases	Partner on specific project/programs with neighborhood commissions, business, civic and environmental groups and organizations and schools
Manage the production of the Annual Report, Water Quality Report and Marketing materials	Produce newsletters, brochures, DC Water exhibits and materials. Provide editing support for other departmental communication projects and produce special high-profile project communications materials	Prepare exhibits, develop and coordinate community service and customer outreach activities
Produce Public Service Announcements, Commercials and Videos. Manage Speakers Bureau, department's budget, produce live and archived webcasts of Board meetings and manager stakeholder presentations and Plant tours	Respond to local/national media inquiries, manage website content; track and strategically influence relevant policy proposals. Establish and enhance working relationship with elected and appointed officials. Pursue state and federal government funding opportunities	Coordinate stakeholder presentations and community events; conduct Sewer Science and other public school programs

EXTERNAL AFFAIRS

MISSION: To provide information about DC Water services and programs and to raise awareness about DC Water's efforts and achievements to improve the quality of life in the region by protecting the environment in which it operates and supporting the community it serves.

BUDGET OVERVIEW: The approved FY 2017 operating budget is relatively flat compared to FY 2016 budget.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	12	13	13	13
Average number of positions filled	12	13		
Operating Expenses: (\$000's)				
Personnel Services including Overtime	\$ 1,458	\$ 1,668	\$ 1,681	\$ 1,750
Overtime	1	1,014	27	27
Non-Personnel Services:				
Chemical and Supplies	4	10	15	10
Utilities	21	24	31	33
Contractual Services, etc.	331	457	466	471
Small Equipment	10	4	10	7
Total Non-Personnel Services	367	495	522	522
Total Operations & Maintenance	\$ 1,825	\$ 2,164	\$ 2,203	\$ 2,272
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Publication of DC Water's Annual Report	1	1	1	1
Publication of Customer Newsletter	10	10	10	10
Publication of Clean River's Update	2	2	2	2
Publication of Employee Newsletter	12	12	12	12
Publication of Water Quality Report	1	1	1	1
Senior speech and presentation development	10	10	10	10
Community meetings/outreach re: lead, rates, CSO/CIP projects, etc.	100	100	100	100

EXTERNAL AFFAIRS

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Expand communications and marketing around tap water, with emphasis on partnerships with the business community, universities and civic/neighborhood groups
- Ongoing tap water promotion and distribution at large festivals - H Street Festival, DC Vegetable Fest, and Pride Festival
- Expand DC Water’s internal (employee) outreach, working closely with Human Capital Management, the Office of the General Manager & CEO and other departments
- Ramp up Clean Rivers outreach with a sustained public education campaign to inform all stakeholders about the benefits of the program
- Enhance our social media strategies
- Ongoing rebranding efforts
- Continuing to expand and enhance our relationships with local media, community bloggers and trade press

FY 2017 Major Recommended Activities and Changes

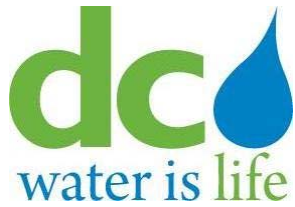
- No major changes anticipated

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- No direct impact



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Cluster: INDEPENDENT OFFICES
Department: INFORMATION TECHNOLOGY

FUNCTIONS

BUDGET

FY 2017
\$11,044,000

POSITIONS

FY 2015

Authorized	28
Average Positions Filled	22
Year-End Positions Filled	24
FY 2016	FY 2017
24	28

Infrastructure & Operation	Cyber Security	Enterprise Application	Other
16 – Positions	1 - Positions	9 - Positions	2 - Positions
Provide technical support for applications, E-Business and other functional teams	Design and maintain DC Water’s website to allow customer e-business access	Support project planning, management, and implementation	Program Management of various IT projects
Technical resource PCS and SCADA security architecture	Develop and support DC Water’s intranet and manage project prioritization process	Develop and provide standards for System Architecture/Integration	Information Architecture
Manage and maintain processes, procedures, and supplementary safeguards to mitigate risk and ensure operations data integrity throughout the organization’s IT infrastructure	Integrate and provide product support for the financial, payroll, maintenance and customer information and billing, AMR, IVR, AM systems	Business process improvement and integration. Application development, system administration, and provide GIS/IAB support. Provide Enterprise content, document & record management system support	
Maintenance of the Enterprise Continuity of Operations (COOP) capabilities	Ensure successful project implementations and database administration	Maintain DC Water’s technology standards. Implement & support radio systems/phone. Manage the Solution Center (Help Desk)	

INFORMATION TECHNOLOGY

MISSION: To ensure that the Authority's mission is supported by state-of-the-art technology with an infrastructure capable of accommodating all traffic and connectivity demands, and a computing environment that encourages development of efficient business.

BUDGET OVERVIEW: The approved FY 2017 budget is higher than the approved FY 2016 budget by \$0.5 million primarily due to higher projected personnel services cost from four additional headcount related to department reorganization.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	24	24	24	28
Average number of positions filled	19	22		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 2,562	\$ 3,369	\$ 3,401	\$ 4,041
Overtime	19	12	27	27
Non-Personnel Services:				
Chemicals and Supplies	115	35	166	64
Utilities	137	116	168	161
Contractual Services, etc.	6,610	6,658	6,632	6,654
Small Equipment	82	81	164	124
Total Non-Personnel Services	6,944	6,889	7,129	7,003
Total Operations & Maintenance	\$ 9,507	\$ 10,258	\$ 10,530	\$ 11,044
Capital Equipment	\$ 4,880	\$ 2,872	\$ 2,970	\$ 2,165
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
98% Network uptime round the clock	99%	99%	99%	99%
96% of all high priority tickets completed within 4 hours	90%	98%	98%	98%
60% Tickets closed by Tier 1 support*	N/A	60%	60%	70%
50% of Projects Completed on-time*	N/A	50%	50%	60%
98% Network uptime during peak hours*	N/A	98%	98%	98%

* Tracking of this performance measure will begin in FY 2016

INFORMATION TECHNOLOGY

OVERVIEW

FY 2016 Major Planned Activities and Changes

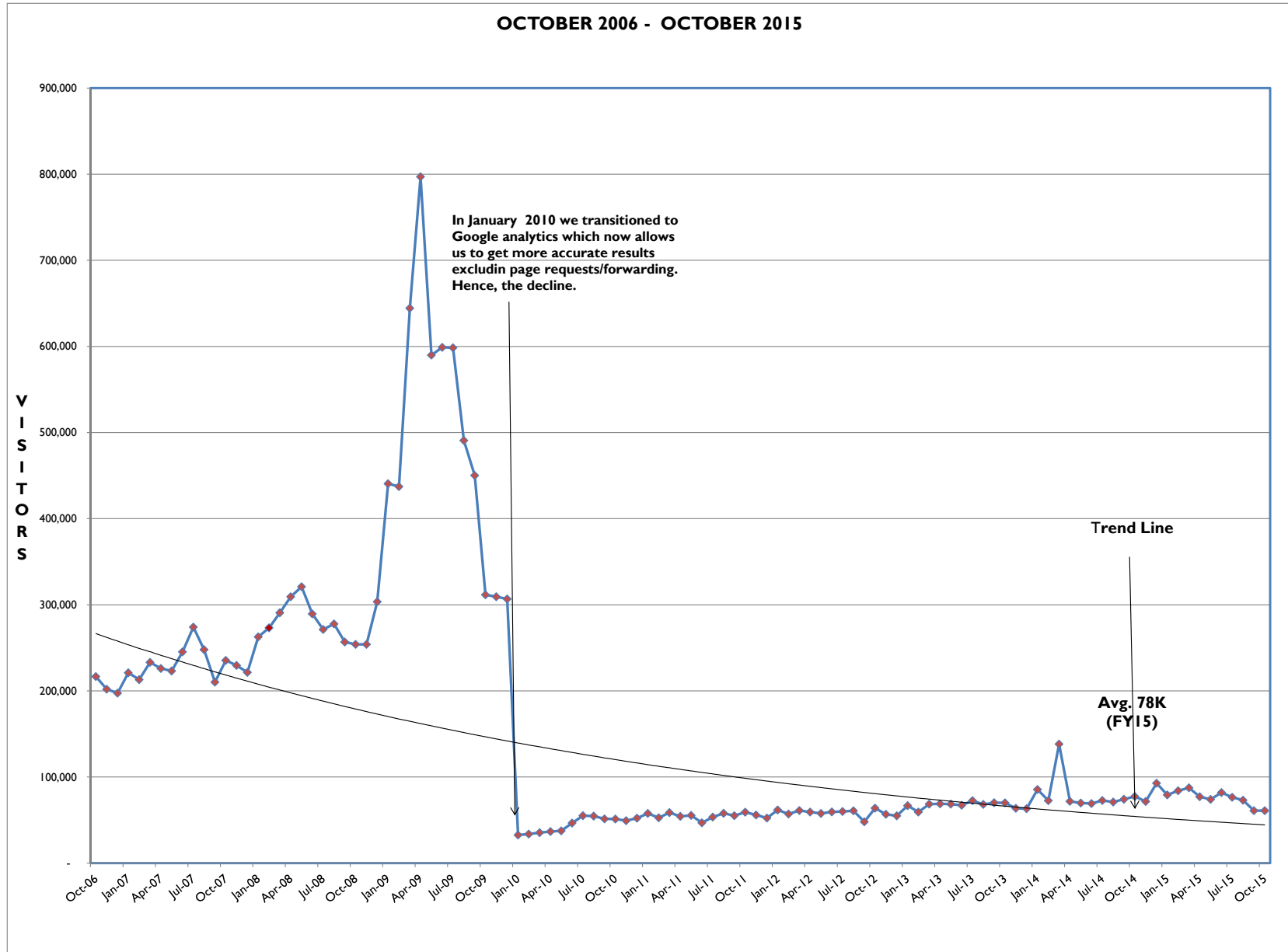
- Complete redundant/disaster recovery facility/services
- Rebid Enterprise Customer Information System (ECIS) initiative and increase number of participants for the anticipated selection of a new system which will provide wireless access to both buildings and equipment on Blue Plains
- Rollout Blue Plains plant wide wireless capabilities
- Continue to ensure IT infrastructure reliability and upgrades consistent with Authority Technology Life-cycle for network infrastructure, telephone system, personal computers, laptops, cell phones, and tablet devices
- Complete Office 2013 upgrades
- Complete upgrade of Automated Meter Reading/Advanced Metering Infrastructure (AMR/AMI) system
- Maximo Scheduler rollout
- Implement e-Procurement (Lawson Contract Manager, Supplier Portal & Strategic Sourcing)
- Upgrade or replace the current Primavera P6 and Contract Manager I3 (CM I3)
- Implement Data Warehouse to create data marts and data stores for an enterprise level data warehouse for all DC Water business units custom reporting, analysis and interfacing needs via our new Business Intelligence tool
- Implement Master data tables from various systems to allow for future system integration
- Refresh Impervious Database with new flyover data

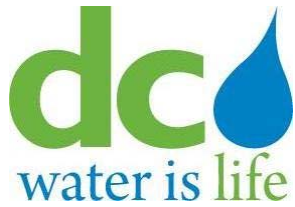
FY 2017 Major Recommended Activities and Changes

- Implement As-Builts processing Livelink and Maximo
- Implement new ECIS replacement/upgrade
- Implement Phase 2 of Automated Vehicle Locator
- Select and deploy integration infrastructure Extract, Transform and Load tool which will tie different databases together seamlessly
- Complete Maximo Scheduler rollout
- Increase penetration of field force automation
- Complete implementation of e-Procurement (Lawson Contract Manager, Supplier Portal & Strategic Sourcing)
- Complete upgrade or replacement of Primavera P6 and Contract Manager I3 (CM I3)

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Implementation of Systems Applications and Products (SAP) Business object will require additional maintenance costs (licenses) in the operating budget starting in FY 2017
- Contract labor and FTEs to support new Customer Information System (CIS), Advanced Metering Infrastructure (AMI) and Interactive Voice Recognition (IVR) solutions once they are in place





Cluster: CHIEF FINANCIAL OFFICER
Department: FINANCE, ACCOUNTING & BUDGET

FUNCTIONS

BUDGET

FY 2017
\$ 14,391,000

POSITIONS

FY 2015

Authorized	49
Average Positions Filled	44
Year-End Positions Filled	46
FY 2016	FY 2017
49	48

Finance	Accounting	Financial Systems & Control	Budget
17 - Positions	16 - Positions	4 - Positions	11 - Positions
Manage and oversee Treasury, Debt and Risk management functions of the organization	Manage accounting and financial reporting functions of the organization, includes Comprehensive Annual Financial Report (CAFR), financial transactions, maintain financial records and an effective internal control structure, and establish accounting and reporting policies	Manage and Support organization-wide Financial System and related applications to ensure accountability and safeguarding of the Authority's assets	Manage the budget and billing activities of the organization, including grants and county billing operations
Debt and investment portfolios, operations of cashing and banking services	Payroll operations	Management of Financial System, including upgrades and enhancements	Prepare and monitor operating and capital budgets
Short and long-range financial planning, revenue forecasting, and monitoring and rate setting processes	Vendor payment operations	Financial System user support/access control/user training	Board Committees' reporting process
Administer all insurance and risk management activities, manage all general liability and tort claims for DC Water's Operations	Asset management finance and accountability	Business Intelligence and Reporting	Financial relationship with the Washington Aqueduct

Departmental Summary

FINANCE, ACCOUNTING AND BUDGET

MISSION: Manage all of DC Water's financial activities to maintain sound financial condition; and, to ensure performance that meets the expectations of the Board, stakeholders and the broader financial community.

BUDGET OVERVIEW: The approved FY 2017 budget increased by approximately \$0.9 million over the approved FY 2016 budget primarily due to projected increase in contractual services for claims and insurance costs.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	50	49	49	48
Average number of positions filled	48	44		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 5,974	\$ 6,270	\$ 6,614	\$ 6,573
Overtime	28	39	30	30
Non-Personnel Services:				
Chemical and Supplies	14	28	31	53
Utilities	149	197	206	207
Contractual Services, etc.	1,997	5,537	6,610	7,554
Small Equipment	4	-	4	4
Total Non-Personnel Services	2,163	5,762	6,851	7,818
Total Operations & Maintenance	\$ 8,138	\$ 12,032	\$ 13,465	\$ 14,391
Capital Equipment	\$ -	\$ 91	\$ 17,880	\$ 18,462
Targeted Performance Measures				
Manage DC Water's financial operations to ensure revenue is within 99% of projections and O&M expenditures are within budget	Revenue - 99%	Revenue - 99%	Revenue - 99%	Revenue - 99%
Comply with the Board's investment policy and strategy	Expenditures - 94%	Expenditures - 93%	Expenditures - 95%	Expenditures - 95%
Benchmarks: Short-Term Funds - ML 3 months US T-Bill Index and Core Funds - ML 1 - 3 year	100%	100%	100%	100%
Manage DC Water's financial operations to ensure 140% senior debt service coverage	2 basis points	70 basis points	70 basis points	138 basis points
Meet or exceed the 120 day operating and maintenance expense with the objective of maintaining at least \$125.5 million in operating reserves as set by Board policy	55 points	30 points	130 basis points	211 basis points
Issue Comprehensive Annual Financial Report (CAFR)	4%	470%	470%	
Pay 97% of all undisputed invoices within 30 days	125.5 million	125.5 million	125.5 million	125.5 million
	February	February	February	February
	97%	97%	97%	97%

FINANCE, ACCOUNT & BUDGET

OVERVIEW

FY 2016 Major Planned Activities and Changes

Finance:

- Continue Water Balance monitoring
- Review revenues and rate structure for opportunities to improve rates:
 - Implementation of new rate structure
 - Implementation of System Availability Fee (SAF) in FY 2016
 - Conduct 2016 Potomac Interceptor Cost of Service Study
 - Continue to monitor economic conditions and affordability
- Monitoring of consumption trends and regional economic indicators
- Analyze and evaluate operating reserve level
- Administer post compliance program for all outstanding debt and monitor bond market for Green Bond issuance and performance
- Continue to evaluate investment portfolio strategy, performance and reporting
- Issue Extendable Municipal Commercial Paper (EMCP) to refund floating rate note debt and commercial paper as needed for liquidity purposes
- Close Business Office and redeploy staff to Blue Plains Treasury Operations

Financial Systems & Controls:

- Perform ImageNow upgrade/enhancement
- Implement new Business Intelligence and Reporting tool
- Implement Infor Lawson Contract Management and Strategic Sourcing module in conjunction with the Procurement and IT Departments
- Conduct business process needs and analysis for Enterprise Resource Planning (ERP) system enhancement/replacement
- Implement an accounts payable invoice authorization (e-invoicing) system

Accounting:

- Internal Control Improvements - Control Activities Documentation for Business Improvement Accounts and Overhead Rate Review Program
- Coordinate and support Internal Auditors
- Minimize/eliminate paper check payments to vendors
- Implement Ceridian DayForce HR/Payroll System
- Ensure a clean external audit opinion
- Timely issuance of Comprehensive Annual Financial Report
- Timely quarterly reporting of financials
- Shorten closing cycle calendar
- Timely quarterly reporting of financials

FINANCE, ACCOUNTING & BUDGET (CONT')

- Shorten closing cycle calendar
- Review Capitalization Policy
- Financial Reporting Assessment and Development
- Increase focus on CIP, Intangible and Fixed Assets
- Develop Accounting Policy and Procedures for Innovation Program Initiative

Budget:

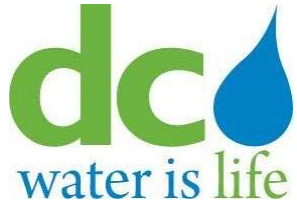
- Develop, monitor and report the annual operating and 10 year CIP budgets
- Ongoing financial management of critical programs
 - Continue monitoring of key financial performance targets
 - Document business procedures for new budget processes in support of new ERP system
- Design and implement continual improvements to the budget planning process
- Grants/IMA Customers
 - Complete FY 2015 operating settlement for wholesale customer cost
 - Establish operating Multi Jurisdiction Use Facilities (MJUF) reimbursable activities in Operations/Finance
 - Establish process and procedures for FEMA Grants
 - Quarterly IMA Capital Bill and EPA Revenue
 - Monthly Bond Draw
- 2014 WSSC Audit of IMA Billing Settlement

FY 2017 Major Recommended Activities and Changes

- Revise and update budget and reporting processes
- Explore revenue generating activities
- New bond issuance
- Continue with FY 2016 major activities

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- There is \$750,000 in the FY 2016 budget for Financial Management System, Invoice Portal, Financial Reprogram/General Ledger, and Ceridian (Dayforce) implementation. This involves updates and enhancements to the systems that would result in operating efficiencies and overall costs savings



Cluster: SUPPORT SERVICES

Department: ASSISTANT GENERAL MANAGER

BUDGET

**FY 2017
\$625,000**

FUNCTIONS

POSITIONS

FY 2015

Authorized	3
Average Positions Filled	3
Year-End Positions Filled	2
FY 2016	FY 2017
3	3

Human Capital Management	Facilities Management	Security	Occupational Safety & Health	Fleet Management	Procurement
Develop and direct the strategic objectives of the Authority's support services divisions					
Oversee and direct the administrative services functions that support the achievement of the Enterprise's goals					

ASSISTANT GENERAL MANAGER - SUPPORT SERVICES

MISSION: To oversee and direct the administrative services functions that support the achievement of DC Water's goals.

BUDGET OVERVIEW: The approved FY 2017 budget is higher than the approved FY 2016 by \$0.20 million due to anticipated personel service cost adjustments in addition to a position transfer of one (1) FTE from Procurement and slight increase in utilities cost.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	2	3	2	3
Average number of positions filled	1	3		
Operating Expenses (000's)				
Personnel Services including Overtime	\$ 239	\$ 387	\$ 339	\$ 497
Overtime	1	2	1	1
Non-Personnel Services:				
Supplies	-	-	1	1
Utilities	4	4	7	10
Contractual Services, etc.	4	2	20	19
Small Equipment		-	-	-
Total Non-Personnel Services	8	6	28	30
Total Operations & Maintenance	\$ 247	\$ 393	\$ 367	\$ 527
Capital Equipment	\$ -	\$ -	\$ -	\$ -
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Planning Meetings with directors of supporting departments:				
Facilities Management	4	4	4	4
Security	4	4	4	4
Fleet Management	4	4	4	4
Human Capital Management	4	4	4	4
Procurement Services	4	4	4	4
Occupational Safety & Health	4	4	4	4

ASSISTANT GENERAL MANAGER - SUPPORT SERVICES

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue support of the Rolling Owner Controlled Insurance Program (ROCIP) capital construction program
- Successfully implement appropriate recommendations of the Vulnerability Assessment
- Continue to enhance operating excellence through innovation, sustainability, and adoption of best practices in safety, procurement, human capital management, security, facilities and fleet

FY 2017 Major Recommended Activities and Changes

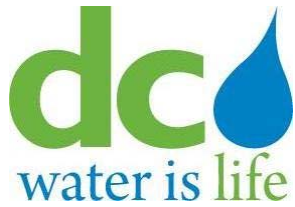
- Continue implementation of initiatives under Goals 1 – Develop: Maintain and recruit a high performing workforce and 6 – Assure safety and security - in Blue Horizon 2020 (DC Water Strategic Plan)
- Continue to enhance operating excellence through innovation, sustainability, and adoption of best practices in safety, procurement, human capital management, security, facilities and fleet
- Enhance customer confidence and satisfaction
- Successfully implement appropriate recommendations of the Vulnerability Assessment

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- No major items identified



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Cluster: SUPPORT SERVICES
Department: HUMAN CAPITAL MANAGEMENT

FUNCTIONS

BUDGET

FY 2017
\$7,823,000

POSITIONS

FY 2015

Authorized	25
Average Positions Filled	25
Year-End Positions Filled	23
FY 2016	FY 2017
26	25

Recruitment	Compensation	Benefits	Labor Relations & Compliance	Learning & Development	HCM Systems
7 - Positions	3 - Positions	3 - Positions	5 - Positions	3 - Positions	4 - Positions
Recruitment and hiring, and employment forecasting and planning	Market Analysis and Compensation Program	Health and Welfare Benefits Administration	Labor Relations, Arbitration, Disciplinary Actions, and Workers Compensation	Management, and employee training, Succession Planning and Knowledge Capture	Data Integrity in all HCM systems
Skills assessment and testing for new hires	Job Evaluation Program and Position Control	Pension Benefits Administration	Employee relations, counseling, grievances and complaints	Education assistance & tuition reimbursement	Records management and Employment Verifications
Employee Referral Program and on-boarding	Performance Pay Incentive and Management Program	Employee Assistance and Wellness Programs	Affirmative Action Program, Equal Employment Opportunity Complaints and Investigations, Americans with Disabilities Act, and Drug & Alcohol Testing	Internship Program and Employee Recognition Awards	Coordinate security & configuration changes to all HCM systems

HUMAN CAPITAL MANAGEMENT

MISSION: To deliver high quality, innovative, valued and timely human capital management services that are responsive to the needs of DC Water employees and departments, in order to help facilitate employees to achieve their individual and organizational goals.

BUDGET OVERVIEW: The approved FY 2017 budget increased by approximately \$1.1 million over the approved FY 2016 budget due to projected increases in workers compensation program based on historical trends. This was slightly offset by net transfer of one (1) Full Time Equivalent (FTE) to Office of the General Manager/ Chief Executive Officer (CEO).

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	25	25	26	25
Average number of positions filled	23	25		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 3,170	\$ 3,549	\$ 3,807	\$ 3,731
Overtime	1	6	5	5
Non-personnel Services:				
Supplies	18	33	34	34
Utilities	34	36	48	48
Contractual Services, etc.	1,465	3,274	2,842	4,008
Small Equipment	-	3	2	2
Total Non-Personnel Services	1,517	3,346	2,925	4,092
Total Operations & Maintenance	\$ 4,687	\$ 6,895	\$ 6,733	\$ 7,823
Capital Equipment	\$ -	\$ 129	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
120 days from job posting to hire	120	120	120	120
10 days to initiate disciplinary action	7	7	7	7
14 days new hire benefit set-up	14	14	14	14
22.5 Average number training hours per FTE	22.5	22.5	22.5	22.5
Comparison DC Water Employees Compensation (100%) vs Market 50th-%tile	100%	100%	100%	100%

HUMAN CAPITAL MANAGEMENT

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Negotiate Compensation Agreement for all five Unions and DC Water
- Continue to administer Workers’ Compensation Program
- Determine business systems requirements along with additional resources to track, maintain, and report compliance for both regulatory and DC Water required licenses and/or certifications
- Implement a voluntary benefits program that would allow employees to choose from a variety of benefits supported by a comprehensive delivery service program
- Train managers on how to use Manager Self-Service inside of Ceridian DayForce Enterprise System
- Conduct leadership development program training to include new employees, first time managers, mid-level and executive level managers
- Coordinate training related to all required certifications and licenses for DC Water employees
- Transition to Ceridian DayForce Applicant Tracking System
- Perform ongoing Performance Management system training for DC Water non-union employees
- Implementation of new personnel system within Cornerstone System
- Coordinate Authority-wide Asset Management training in conjunction with the Asset Management Steering Team

FY 2017 Major Recommended Activities and Changes

- Recommend and implement medical plan design changes to avoid the Patient Protection and Affordable Care Act (PPACA) excise “Cadillac” tax exposure projected for 2019
- Implement the new Compensation Agreement for DC Water union employees
- Ongoing performance management systems training for DC Water union employees
- Conduct an Employee Engagement Survey as part of 2020 Blue Horizon (Strategic Plan Initiative)
- Conduct assessments for DC Water Succession Planning program as part of 2020 Blue Horizon (Strategic Plan Initiative)
- Implement the Compensation Collective Bargaining Agreement training for management staff
- Implement the Rewards and Recognition program for union employees

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Asset Management Training in FY 2016 & FY 2017

FY 2016 AND FY 2017 LEARNING AND DEVELOPMENT PLAN

LEARNING AND DEVELOPMENT OVERVIEW

Learning involves acquiring new skills and knowledge in relation to current roles. Development relates to a person's potential to acquire wider capabilities. DC Water uses both to support its mission and to benefit the Authority, its team members, and customers. By positioning ourselves to take a more strategic approach to developing employees through using formalized job roles with core competencies as the map, we purposely create a well-trained **world class** workforce. An added byproduct is a robust long-term succession plan to develop the future leaders of DC Water. Our leadership team, present and future, need to be able to demonstrate a wide range of behaviors and technical skills. They are responsible for:

- Leadership qualities that consist of leading their teams at each level
- Celebrating achievements and managing under-performance, supporting improvement where needed
- Setting goals and priorities by responding to change and spotting opportunities
- Coaching and mentoring team members

Categories of training classes offered at DC Water are as follows:

Contractual Training – technical classes that support our performance improvement program. This training also includes classes on occupational safety and security and the installation, operation of new equipment and processes and general instruction on standard software applications.

In-House Training – classes and courses designed and implemented by DC Water's training personnel and periodic

outsourced support. In-house training focuses on providing non-technical mandatory courses, basic skills development, skill enhancement courses and literacy. These courses involve all or a large number of our employees.

Outside Training – classes and programs that support individual employee training and development needs and requirements, not implemented by DC Water's training personnel. This is an effective means of providing highly specialized or special focus training to individuals or a small group of employees. DC Water's education reimbursement program is included in this category.

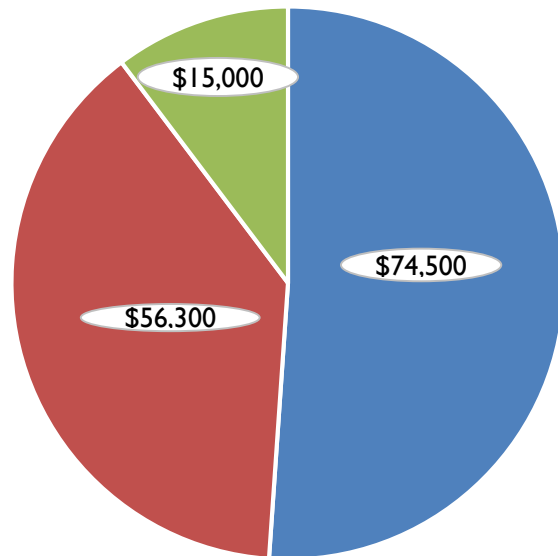
On-Line Training - web-based courses offered by colleges, universities and professional organizations.

FY 2015 ACCOMPLISHMENTS

During FY 2014 the Executive Team and the Human Capital Management Department collaborated to drive the importance of properly training and developing our team members (**Blue Horizon 2020: Goal #1 "Develop, Maintain, and Recruit a high performing workforce – Objective #2 Achieve 100% of employees with required certifications and/or licenses by 2015)**. In FY 2015, the Authority continues to leverage its relationships with local colleges, vendors, and certification/licensing boards to establish in-house training programs such as the Journeyman Electrical Prep Course, Distribution & Collection Prep Course for Certification, Microsoft Suite Certifications and Commercial Driver's License (CDL). A shared FTE position, CDL & Safe Driver Program Specialist, located within Human Capital Management Department, was created to provide CDL training.

Thirty (30) electricians attended the Journeyman Electrical Prep Course, eighteen (18) System Operators attended the Distribution & Collection Prep course, twelve (12) participants attended the Microsoft Suite Certification class and fifteen (15) participants completed the CDL licensing training.

FY 2015 Regulatory & Job Specific Training



■ Safety ■ Success Skill Training ■ Information Technology

Learning and Development continued to collaborate with the Department of Occupational Safety and Health. As a result, 22 different targeted training topics were offered to meet regulatory and job-specific needs at a total of cost of \$145,800 in FY 2015.

Utilizing both internal and external training resources, significant efforts were made to provide safety classes such as Forklift, Backhoe, CPR/First Aid, Confined Space, Emergency Evacuation, Flagger, Overhead Crane, and Personal Protective Measures for Biological Events, Excavation & Trenching and Safety Trained Supervisor. Occupational Safety and Health Department added “Safety Trained Supervisor” to the safety program. This program is required for all managers and supervisors and includes the critical information managers/supervisors need to ensure team members work safely.

A total of \$15,000 was spent on Information Technology training for DC Water team members including Microsoft suite courses, training for Level 1, 2, new and intermediate users.

DC Water understands technical skills are vital to the day-to-day operations of the Authority. That said, attention is also given to the importance of developing people or “success” skills for the efficient and effective function of the organization. Work ethic, attitude, communication skills, emotional intelligence and a host of other interpersonal attributes are essential skills for workplace success. Problem solving, delegating, coaching, and team building are all much easier when employees possess these skills. During FY 2015, DC Water invested approximately \$56,300 in “success” skill training programs. Professional development training classes such as grammar and business writing, effective time management, and project management were also offered.

In October 2012, the Office of the General Manager, Chief Financial Officer, and Human Capital Management collaborated to enhance the Education Reimbursement Program; significant upgrades were made. First, the annual benefit for all permanent full-time employees, with at least one year of service, increased to \$5,000 annually. This amount covered not only the cost of tuition and books for undergraduate coursework, but also included graduate

level and coursework associated with licensure and/or certifications. Second, in an effort to help mitigate the upfront out-of-pocket cost to team members, an assistance option was included to the benefit. This meant that once the necessary paperwork was submitted and processed, team members could request to have payment for classes issued directly to the institution of their choice prior to the start of the semester. Team members are also able to take advantage of tuition cost savings, waived application fees and other benefits based on Memorandums of Understanding (MOUs) that have been put in place with colleges and universities in the area.

In FY 2015, 276 employees participated in the Education Assistance Reimbursement benefit program. DC Water provided \$146,323.47 to assist employees continue their education. This is an approximate decrease of 7.6% from FY 2014. A significant number of employees continue to pursue advanced degrees and certifications as part of their career development efforts.

Learning and Development continues to manage a robust and competitive summer internship program that has been in existence for 13 years. The FY 2015 Summer Internship Program consisted of 45 interns from 26 different colleges and universities. The diverse group of students was from local areas such as Maryland, Virginia, and the District of Columbia and as far away as Nigeria, Ghana, Indonesia, Malawi, Vietnam, and China. The interns completed specialized projects that related to their academic choices and participated in professional development classes on resume writing and interviewing skills and techniques and how to work in teams. They took field trips that focused on team building, the richness of the Anacostia, and topics of ecology and water chemistry. The interns participated in a tree maintenance community service event in partnership with the Anacostia Watershed Society. The interns were treated to a Washington Nationals baseball game as part of our annual activity, “intern’s night out”. A total of 4 students continued in the year-round program. These students conduct independent research and are expected to work on complex technical projects within the Wastewater Treatment, Sewer Service, and Procurement.

In addition to the traditional courses, Learning and Development partnered with Labor Relations and Recruiting to facilitate Equal Employment Opportunity (EEO) and Bias-free Hiring courses to both union and non-union team members. These courses were designed to ensure that all team members fully understood DC Water’s EEO policy, protected classes, internal interviewing and hiring procedures and their duty to report infractions to DC



Water's EEO policy. Other Human Capital Management specific courses were offered for Sexual Harassment and Effective Two-Way Communication (supervisors and employees). Learning and Development processed \$65,948 in outside training requests.

FY 2016 and FY 2017 Training Budgets

The approved FY 2017 training budget totals \$1.8 million, which is approximately 4 percent less than the approved FY 2016 budget of approximately \$1.9 million.

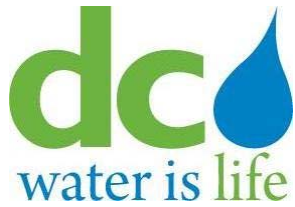
Learning and Development will continue to focus on the need to train beyond the initial job qualifications, with emphasis on professional and trade certifications. Considerable attention will be given to our succession planning efforts as well as employee engagement. Additionally, development plans will be created to focus on 4 core areas of development: technical, safety, professional

development, and information technology. More specialized small group intact learning and development programs will occur as proactive measures are taken to address identified areas of opportunity within workgroups.

A concerted effort continues to be made to create synergy between Human Capital Management and the various departments within the Authority for a more structured approach at universal training resources. The purpose is to ensure that all resources are maximized to deliver quantifiable Return on Investment (ROI). Evaluation of training programs will be structured with the learner in mind, keeping stakeholder expectations around desired results which impact critical behaviors at the forefront of all curriculum design. It is through these partnerships that Learning and Development will be tasked to assist team members in meeting the Strategic Goals outlined in Blue Horizon 2020, thus helping DC Water achieve the organization's vision of becoming a "world class water utility.



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Cluster: SUPPORT SERVICES

Department: FACILITIES MANAGEMENT

FUNCTIONS

BUDGET

**FY 2017
\$8,490,000**

POSITIONS

FY 2015

Authorized	59
Average Positions Filled	56
Year-End Positions Filled	55
FY 2016	FY 2017
60	59

Office Services	Operations	Mechanical Services
11 - Positions	37 - Positions	11 - Positions
Mail, courier and freight services	Building operations/maintenance, procure and assign furniture and repair fences and rollup doors	Predictive/preventive maintenance
Motor pool services	Coordinate workspace assignments and moves	Adequate indoor air quality
Manage DC Water's recycling program (paper, cans, bottles)	Janitorial service, landscaping, trash removal, and pest control	Engage in project management of major construction and renovation projects
Coordinate work order requests and surveys for facilities	Adequate ground direction and building signage	Elevator and HVAC systems maintenance
Manage DC Water's copy services	Manage cafeteria operations	Fire suppression and detection

FACILITIES MANAGEMENT

MISSION: Support the operations of the Authority through routine maintenance, custodial services, repair and improvement of its facilities, buildings, grounds and roadways for DC Water's operations.

BUDGET OVERVIEW: The approved FY 2017 budget increased by \$0.2 million over the approved FY 2016 budget due to projected cost increases in contracts for anticipated emergency maintenance and repairs.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	67	60	60	59
Average number of positions filled	60	56		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 5,746	\$ 5,496	\$ 5,625	\$ 5,710
Overtime	242	259	250	250
Non-Personnel Services:				
Supplies	600	416	558	548
Utilities	101	108	114	104
Contractual Services, etc.	5,737	1,655	1,929	2,078
Small Equipment	32	37	50	50
Total Non-Personnel Services	6,470	2,216	2,651	2,780
Total Operations & Maintenance	\$ 12,216	\$ 7,712	\$ 8,276	\$ 8,490
Capital Equipment	\$ 1,510	\$ 1,312	\$ 1,300	\$ 1,300
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Annual work orders closed	4,134	1,312	1,300	1,300

FACILITIES MANAGEMENT

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Continue Building Information Management Preventative Maintenance Program
- Implement enhanced Facilities Work Order system and process via Fleet Wave Software
- Implement Fixed Asset Management and Inventory process
- Central Operations Facility (COF) Cafeteria renovations and upgrades
- Maintain the grounds, fencing, landscape, signage and general interior and exterior site aesthetics for the two new buildings
 - Trash and debris removal
 - Sidewalk snow and ice removal
 - Major weeds, tree and underbrush trimming

FY 2017 Major Recommended Activities and Changes

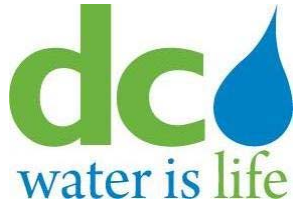
- Continue COF Cafeteria renovations upgrades
- Continue the implementation of the agency-wide Safety Inspections Program
- Implementation of updated department Standard Operating Procedures regarding administrative functions
- Continue to maintain the grounds, fencing, landscape, signage and general interior and exterior site aesthetics for the two new buildings

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Increased ability to monitor and maintain DC Water facilities and properties
- Continued improvement of CMF, COF, Bryant Street and I25 O Street systems and buildings, while reducing the overall maintenance efforts and ultimately expenditures
- Install gates, fences, landscaping and signage for the two new buildings



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Cluster: SUPPORT SERVICES

Department: SECURITY

BUDGET

**FY 2017
\$ 6,877,000**

FUNCTIONS

POSITIONS	
FY 2015	
Authorized	7
Average Positions Filled	6
Year-End Positions Filled	6
FY 2016	FY 2017
7	7

Security Operations	Security Asset Protection
5 - Positions	2 - Positions
Identification and Badge Control	Electronic security asset testing and maintenance
Guard force and traffic management	Management of security related Capital Improvement Plan projects
Emergency Management & First Response and community awareness/training	Loss prevention, asset protection, vulnerability assessments, and hazardous threat training/awareness
Investigations, local and federal liaison, and Security work order requests	Information security, site surveys, and Key management

SECURITY

MISSION: To provide and maintain a safe and welcoming workplace that is customer focused and intended to enhance the well-being of staff and visitors, as well as protect all DC Water property and products.

BUDGET OVERVIEW: This department was established from Facilities and Security Management Department effective FY 2015. The approved FY 2017 budget increase of approximately \$0.3 million over the FY 2016 budget is mainly due to projected increases in security guards contract.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions		7	7	7
Average number of positions filled		6		
Operating Expenses (\$000's)				
Personnel Services including Overtime		\$ 748	\$ 821	\$ 846
Overtime		-	-	149
Non-Personnel Services:				
Supplies		25	19	19
Utilities		-	7	24
Contractual Services, etc.		4,443	5,665	5,954
Small Equipment		3	50	35
Total Non-Personnel Services		4,471	5,741	6,031
Total Operations & Maintenance		\$ 5,219	\$ 6,562	\$ 6,877
Capital Equipment		\$ 41	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Completion times to initial security investigation report. Target = NTE 21 days	N/A	21 days	21 days	21 days
Response times to register/complete initial incident reports: Target = 24 hours	N/A	24 hours	24 hours	24 hours
Number of DC Water community trained/briefed on Security/Parking/Crime Prevention issues: Target = 8.3% of population per month	N/A	8.30%	8.30%	8.30%
Turnover rate of Guard Force Officers = NTE 25% per month	N/A	<25%	<25%	<25%
Camera Operational Uptime: Target = 95%	N/A	95%	95%	95%
Smart Card Readers Operational Uptime: Target = 95%	N/A	95%	95%	95%

DEPARTMENT OF SECURITY

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Fully initiate Phase II of the Hardening project at Blue Plains
- Fully incorporate Radio Frequency Identification (RFID) portal technology at high value targets throughout DC Water
- Conduct executive threat level assessments
- Complete integration of separate backbone for Security Systems
- Develop Request for Proposal (RFP) for updated Vulnerability Assessment
- Re-design and coordinate Blue Plains Main Entrance modifications
- Continue integrations upgrades of operations camera system on Blue Plains

FY 2017 Major Recommended Activities and Changes

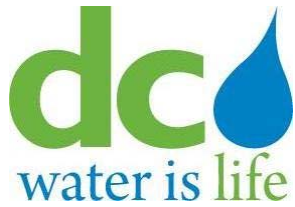
- Partially initiate Phase III of Hardening Project at Blue Plains
- Complete License Plate Recognition (LPR) technology at Blue Plains and Bryant Street
- Implement 'Self-Service' visitor temporary pass management system
- Complete updating of Vulnerability Assessment incorporating operational elements
- Initiate construction of Blue Plains Main Entrance modifications
- Initiate integration of operations cameras at 'off-Blue Plains' locations

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Continued improvement of security systems will reduce overall maintenance, improved response time, and decrease threat levels
- Mega-projects require significant security upgrades and enhancements which will require increased manning to provide full support
- The New Headquarters Building and Fleet Facility anticipated in FY 2018 is expected to increase security operations costs



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Cluster: SUPPORT SERVICES

Department: PROCUREMENT

FUNCTIONS

BUDGET

**FY 2017
\$ 4,450,000**

POSITIONS

FY 2015

Authorized	34
Average Positions Filled	24
Year-End Positions Filled	25
FY 2016	FY 2017
36	34

Contract Management	Materials Management	Contract Compliance	System Administration
15 – Positions	12 - Positions	5 - Positions	2 - Positions
Manage DC Water's procurement process for products and services	Manage the warehouse and associated functions	Manage DC Water's small business development and outreach programs	Manage Lawson Procurement and Maximo systems, and provide system administrative support
Manage DC Water's Cooperative Program contracts	Administer the material control system and associated functions, conduct spot, cycle and annual physical inventory	Manage the DC WaterWorks, purchase & travel cards and other contract compliance programs	Serve as the Program Management Office for various procurement projects
Manage the post-awards administration of contracts	Provide direction and guidance on inventory policies and procedures, disposal of excess and obsolete inventory	Maintain the department's web page and procurement manual	Represent Procurement and manage all IT system projects that impacts Procurement System

PROCUREMENT

MISSION: To procure the best value products and services, with the highest degree of procurement integrity, utilizing efficient and cost-effective procurement methods, with a continuing focus on Local, Small, and Disadvantaged Business Enterprises (LSDBE) contracting participation.

BUDGET OVERVIEW: The approved FY 2017 budget is lower than the approved FY 2016 budget by approximately \$0.20 million primarily due to the DC Water Works program (a local hire initiative), offset by projected decrease in personnel service costs for the transfer of 3 FTES to Human Capital Management, AGM Support Services and Fleet Management departments.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	30	37	36	34
Average number of positions filled	29	24		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 3,217	\$ 3,031	\$ 4,023	\$ 3,403
Overtime	64	23	30	30
Non-Personnel Services:				
Supplies	28	43	39	41
Utilities	73	49	62	66
Contractual Services, etc.	543	355	479	935
Small Equipment	2	-	1	5
Total Non-Personnel Services	645	448	580	1,047
Total Operations & Maintenance	\$ 3,863	\$ 3,479	\$ 4,603	\$ 4,450
Capital Equipment	\$ -	\$ 241	\$ -	\$ -
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Timely processing of small purchases within 7 working days	95%	95%	95%	95%
Issue Invitation for Bid (IFB) and award contracts within 90 calendar days	95%	95%	95%	95%
Issue Requests for Proposal (RFP) and award contracts within 120 calendar days	95%	95%	95%	95%
Issue Procurement request for inventory restock within one (1) business day of approval	95%	95%	95%	95%
System and physical issue of all stock request within same day of authorized request	95%	95%	95%	95%

PROCUREMENT

OVERVIEW

FY 2016 Major Planned Activities and Changes

- Re-engineer end-to-end procurement process to improve productivity and efficiency
- Initiate electronic document storage strategy to be completely paperless within 2 years
- Continue stabilization/enhancement of materials management system and process
- Complete reorganization of Procurement department by creating category management and strategic sourcing capabilities
- Implement technologies to automate the strategic sourcing and contract management processes
- Implement Dashboard tool for automated Lawson Financial System and key performance indicators
- Increase training of procurement staff on strategic sourcing, category management, and Microsoft tools
- Generate, capture, and report cost savings through category management and strategic sourcing projects
- Complete the design of the DC WaterWorks program (a local hire initiative), and implement the program DC Water-wide

FY 2017 Major Recommended Activities and Changes

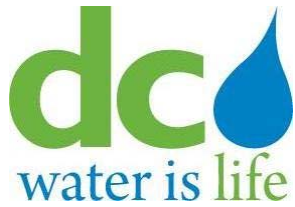
- Continue improving procurement manual and process to improve productivity and efficiency
- Continue optimizing materials management system and process
- Complete the electronic document storage strategy and be paperless
- Continue staff training on strategic sourcing, category management, and Microsoft tools
- Continue generating savings for DC Water through category management and strategic sourcing projects
- Continue the roll out and improvement of DC WaterWorks program

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Lawson Strategic Sourcing, Contract Management, and Supplier Portal Implementation: enhance technology capabilities to automate and improve accuracy, productivity, and efficiency of procurement process
- Material Management Phase II Enhancement Projects: implement additional system and technology capabilities to automate and improve accuracy, productivity, and efficiency of inventory and material management process



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Cluster: SUPPORT SERVICES

Department: OCCUPATIONAL SAFETY AND HEALTH

FUNCTIONS

BUDGET

FY 2017
\$ 1,691,000

POSITIONS

FY 2015

Authorized	9
Average Positions Filled	9
Year-End Positions Filled	9
FY 2016	FY 2017
9	9

Operations Safety	Construction Safety	Data and Analysis
6 - Positions	2 - Positions	1 - Positions
Compliance with environmental health and safety management system	Compliance with environmental health and safety management system	Compliance with environmental health and safety management system
Implement accident prevention program and identify/oversee safety training	Oversight of the comprehensive construction safety program	Develop and analyze safety metrics
Coordinate with Office of Emergency Management and ensure Occupational Safety & Health Administration (OSHA) and National Fire Protection Association (NFPA)	Oversight of Rolling Owner Controlled Insurance Program (ROCIP) safety program	Generate and provide required safety reports
Oversight of hazardous waste program and storage tank compliance		Administer and maintain database

OCCUPATIONAL SAFETY AND HEALTH

MISSION: To provide technical services and support that ensures a safe and healthy work environment for all DC Water employees.

BUDGET OVERVIEW: The approved FY 2017 budget remains relatively flat compared to the approved FY 2016 operating budget.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	9	9	9	9
Average number of positions filled	7	9		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 1,130	\$ 1,201	\$ 1,231	\$ 1,245
Overtime	-	1	2	2
Non-Personnel Services:				
Supplies	22	14	37	37
Utilities	36	34	55	36
Contractual Services, etc.	302	184	360	363
Small Equipment	1	5	10	10
Total Non-Personnel Services	360	236	463	446
Total Operations & Maintenance	\$ 1,491	\$ 1,437	\$ 1,694	\$ 1,691
Capital Equipment	\$ -	\$ 97	\$ -	\$ -
Targeted Performance Measures	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Reportable accidents per hours worked (Reduce 10%) Target = 5.9	6.8	6.8	6.5	6.4
Lost time due to non-fatal accidents. Target = 1.7	4.4	4.4	2.6	2.5
No. of time work stopped due to unplanned unsafe conditions. Target = 0	4.0	4.0	0.0	0.0
No. of formally raised safety related employee concerns (reduce 20%)	8	8	8	7
No. of Workplace Violence Incidents	0	0	0	0
% of investigations closed out in 45 days.	80%	80%	100%	100%
Organizational Non-Conformance				
No. of Vehicle Accidents (Prev). Target = 15	15	15	15	15

OCCUPATIONAL SAFETY AND HEALTH

OVERVIEW

FY 2016 Major Planned Activities and Changes

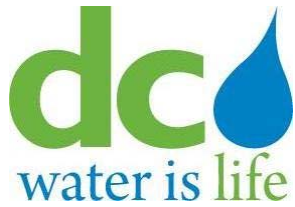
- Enhance the support to the field construction program with the Departments of Water Services and Sewer Services
- Plan and begin implementation of DC Water Environmental Health and Safety Management System (Strategic Goal #6)
- Oversee the implementation of an enterprise-wide initiative to address ergonomics in the field and office (Strategic Goal #6)
- Work in partnership with the operating departments to address the vulnerability assessments conducted in FY 2012 and FY 2013
- Use safety related performance data collected in the Safety Risk System (SRS) to check the effectiveness of the environmental health and safety program (Strategic Goal #6)
- Augment emergency response programs (Strategic Goal #6)
- Enhance the support to the construction program implemented by Facilities, Maintenance, Customer Care, and Operations through documented field observations, enhanced training, and new equipment assessments
- Continue to provide support to the Office of Risk Management in the oversight of the Rolling Owner Controlled Insurance Program for DC Water Contractors
- Continue to broaden the use of the Safety Risk System (SRS)
- Evaluate noise exposure levels

FY 2017 Major Recommended Activities and Changes

- Implement Environmental Health and Safety Management System (Strategic Goal #6)
- Continue to provide support to the Office of Risk Management in the oversight of the Rolling Owner Controlled Insurance Program for DC Water Contractors
- Continue the Automated External Defibrillator (AED) Program, including maintenance, installation of new units, monitoring, and registration with DC government



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Cluster: SUPPORT SERVICES

Department: FLEET MANAGEMENT

FUNCTIONS

BUDGET

**FY 2017
\$ 5,456,000**

POSITIONS

FY 2015

Authorized	6
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Average Positions Filled	6
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Year-End Positions Filled	6
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FY 2016	FY 2017
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6	7
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Maintenance	Administrative	Acquisition
2 – Positions	4 - Positions	1 - Positions
Preventive and repair maintenance	Fleet Rightsizing – process improvements, contract monitoring and budget management	Acquisition/Disposal of vehicles/equipment
Management of vehicles, equipment, parts and DC Water loaner pool program	Performance Measurements - percent of uptime/availability, and CDL Safe Drivers Program	Integration and retrofitting of vehicles
Manage fleet maintenance contractor and vendors	Manage and support the Fleet Wave System, and monitor fuel usage	Inventory control

FLEET MANAGEMENT

MISSION: To provide safe, reliable and cost effective vehicles and equipment to DC Water for use by all departments in performance of their missions.

BUDGET OVERVIEW: The approved FY 2017 budget is lower than the approved FY 2016 budget by approximately \$0.3 million primarily due to lower projected decrease in utilities cost for fuel, consistent with market trends.

	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Positions: (FTE's)				
Number of authorized positions	6	7	7	7
Average number of positions filled	5	6		
Operating Expenses (\$000's)				
Personnel Services including Overtime	\$ 699	\$ 794	\$ 816	\$ 838
Overtime	2	5	4	4
Non-Personnel Services:				
Chemicals and Supplies	7	4	11	16
Utilities	962	718	1,189	757
Contractual Services, etc.	3,601	3,256	3,631	3,760
Small Equipment	30	42	85	85
Total Non-Personnel Services	4,599	4,019	4,916	4,617
Total Operations & Maintenance	\$ 5,298	\$ 4,813	\$ 5,732	\$ 5,456
Capital Equipment	\$ 4,889	\$ 2,047	\$ 4,852	\$ 3,929
Targeted Performance Measures				
	FY 2014 Actual	FY 2015 Actual	FY 2016 Approved	FY 2017 Approved
Preventive maintenance completed on schedule	89%	98%	98%	98%
Vehicles available for use	96%	98%	98%	98%
DC Water Priority vehicle in-service	89%	98%	98%	98%

FLEET MANAGEMENT

OVERVIEW

FY 2016 Major Planned Activities and Changes

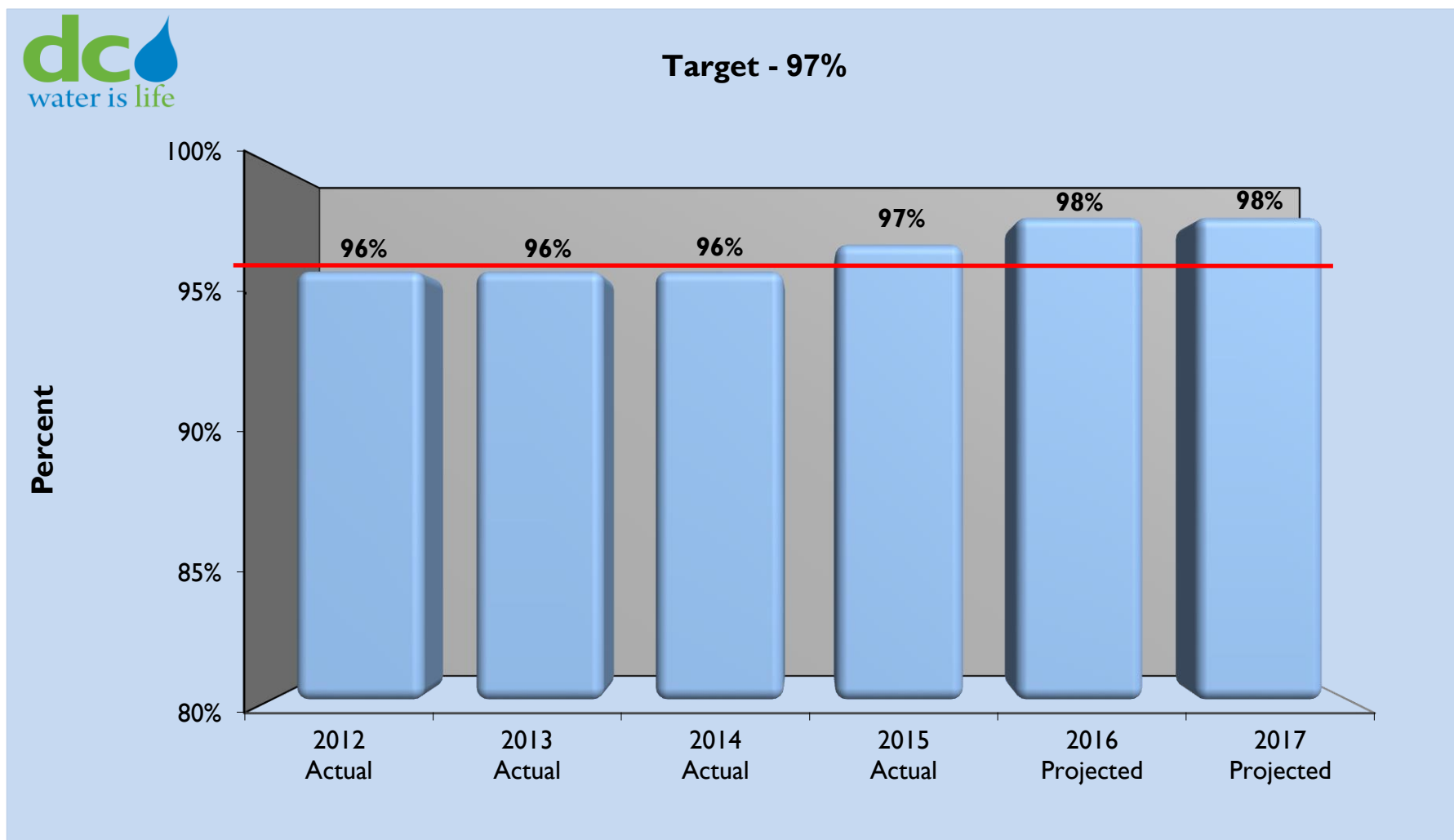
- Strategically plan for relocation and transition startup to the new Fleet facility
- Provide effective and efficient customer service in fleet maintenance to critical programs and operations across the enterprise
- Strategically provide custom fleet solutions in data management reporting and operations
- Ongoing implementation of Field Services Mobile Support Technology Program upgrading, staging, and profiling
- Continue systems integration; Fleet Management Information System(FMIS-WAVE), Geotab, Rideshare program
- Continue utilization of grants and enterprise collaborations for the purchase of Alternative Fueled Vehicles (AFV’s), Hybrid Plug-in Electric Vehicles (HPEV’s), Plug-in Electric Vehicles (PEV’s), Bio-Diesel, Flex-Fuel Vehicles and Custom Fleet Solutions
- Continue the Enterprise Vehicle “Right Sizing” Program as well as reduce the carbon footprint
- Continue customization of Build to Technical Specification of Vehicles and Equipment
- Continue increase in the effective usage of Environmentally Friendly and Bio-based Products, where applicable

FY 2017 Major Recommended Activities and Changes

- Continue relocation and transition to the new Fleet facility
- Continue implementation of Field Services Mobile Support Technology Program-upgrading, staging, and profiling
- Continue systems integration and upgrades to Fleet Management Information System(FMIS-WAVE) Geotab, and Rideshare program
- Continue utilization of grants and enterprise collaborations for the purchase of Alternative Fueled Vehicles (AFV’s), Hybrid Plug-in Electric Vehicles (HPEV’s), Plug-in Electric Vehicles (PEV’s), Bio-Diesel, Flex-Fuel Vehicles and Custom Fleet Solutions
- Continue the “Right Sizing” Program as well as reduce the carbon footprint
- Continue purchasing fuel efficient vehicles – Clean Idle, certified clean Diesel, electric vehicles, where possible to reduce carbon
- Continue increased usage of environmentally friendly and Bio-based Products, where applicable

Impact of Capital Projects on FY 2016 and FY 2017 Operating Expenditures

- Relocation and transition to the new Fleet facility
- Increase in replacement of aging fleet inventory, reduce fuel usage while increasing efficient vehicles/equipment
- Reduce vehicle downtime and increase mobile maintenance services
- Improve customer services/satisfaction
- Innovation and integration of mobile technology
- Increase fleet services and productivity





OPERATING BUDGETS

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section VIII GLOSSARY AND ACRONYMS



GLOSSARY

ACCRUAL BASIS: The method of accounting under which revenues are recorded when they are earned (whether or not cash is received at that time) and expenditures are recorded when goods and services are received (whether or not cash disbursements are made at that time).

ADVANCED METERING INFRASTRUCTURE (AMI): Also known as Smart meters, are updated, digital versions of the traditional electrical meter attached to the outside of your home. Smart meters are also designed to transmit pricing and energy information from the utility company to the consumer (two-way communication).

ADVANCED RESEARCH & TESTING PROGRAM: Specialized wastewater treatment services to outside entities

A/E CONTRACT: Architectural and Engineering Contracts

AERATION: The process that forces compressed air into wastewater. The oxygen keeps the microorganisms alive and sets off a chain reaction; live, eat, and work. Oxygen is an essential ingredient in “activating” sludge.

ALTERNATIVE FUELED VEHICLE: An alternative fuel vehicle is a vehicle that runs on a fuel other than traditional petroleum fuels (petrol or Diesel fuel); and also refers to any technology of powering an engine that does not involve solely petroleum.

AMERICAN RECOVERY AND REINVESTMENT ACT: Is an economic stimulus package enacted by the [111th United States Congress](#) in February 2009. The stimulus was intended to create jobs and promote investment and consumer spending during the [recession](#).

ANAEROBIC DIGESTION: A biological process that uses microorganisms to reduce the volume of biosolids.

APPROPRIATION: An authorization by Congress, which permits officials to incur obligations and expend Authority resources. Appropriations are usually made for fixed amounts, which extend for a fiscal year. Appropriations for capital improvement projects, however, extend until completion, usually beyond the current fiscal year.

ARBITRAGE: The simultaneous purchase and selling of an asset in order to profit from a differential in the price. This usually takes place on different exchanges or marketplaces. Also known as "riskless profit".

ASSETS: Property with monetary value owned by the Authority.

AUDIT: An independent systematic examination of resource utilization concluding in a written report. It is a test of management's internal accounting records. It also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statements.

AUTOMATED METER READING (AMR): System that automatically read customers' meters using radio frequencies, allowing for more accurate and frequent meter readings and transfer of data to a central database for billing and analysis. It is an older technology that only collects electrical energy consumption and transfers that data from the electric meter on the home to the utility (one-way communication).

BALANCED BUDGET: A budget in which the income equals expenditure.

BIOCHEMICAL OXYGEN DEMAND (BOD): An indicator of the amount of biodegradable contaminants in wastewater.

BIOSOLIDS: Sludge that has been treated to reduce pathogens, organics, and odors, forming a reusable agricultural product.

BLUE PLAINS ADVANCED WASTEWATER TREATMENT PLANT: Located in Washington, DC, Blue Plains is the world's largest advanced wastewater treatment plant, and has a permitted capacity of 370 million gallons per day.

BOARD OF DIRECTORS: DC Water's governing board (the Board), which includes 11 primary members, six members from the District of Columbia, two members each from Montgomery and Prince George's Counties in Maryland, and one member from Fairfax County, Virginia.

BOND: An obligation issued by DC Water promising to pay a specified sum of money (called principal or face value) at a specified future date (called the maturity date) along with periodic interest paid at a specified percentage of the principal (interest rate). Bonds are typically issued to fund specific capital improvement expenditures.

BUDGET: A plan of financial operations including an estimate of proposed expenditures and revenues for a fiscal period. The budget establishes funding levels for continuing service programs, operation and maintenance of public facilities, and principal and interest payments on bonded indebtedness. Recurring replacement of capital outlay and minor new capital outlay items are included.

CAPACITY MANAGEMENT OPERATION and MAINTENANCE (CMOM): A standard framework for municipal sewer collection systems to identify and incorporate widely-accepted wastewater industry practices to meet regulatory compliance.

CAPITAL BUDGET: A plan for investment in long-term assets such as buildings, plant, and equipment. DC Water's capital budget includes project schedules and funding needed to acquire, improve or construct properties or facilities to enhance water and sewer services to our customers.

CAPITAL EQUIPMENT: A capital asset with a useful life of at least 3 years, a cost exceeding \$5,000 and is financed with short-term debt or cash. Examples include rolling stock and computer equipment.

CAPITAL IMPROVEMENT PROGRAM (CIP): A plan, which identifies the nature, schedule and cost of long-term improvements to DC Water's infrastructure.

CERIDIAN: DC Water's fully integrated payroll and personnel system designed to accommodate a variety of pay, leave, and work rules and to provide a comprehensive set of human resource applications.

CHLORAMINATION: The process of adding chloramines to drinking water. Chloramine, a form of chlorine and ammonia, is used as a disinfectant by the Washington Aqueduct.

CLEAN RIVERS IMPERVIOUS AREA CHARGE: DC Water uses information contained in the District of Columbia's GIS plainmetric database, which includes tax and property records to determine impervious surface areas. (All surfaces are classified as either pervious or impervious). An impervious charge is billed to DC Water customers based on Equivalent Residential Unit (ERU). This is the amount of impervious surface area measured in square feet based on a statistical median for a single family residential property.

CLEAN WATER ACT (CWA): Act passed by the U.S. Congress in 1972 to control water pollution.

COMBINED SEWER OVERFLOWS (CSO): Discharge of untreated wastewater (a mixture of storm water and sanitary waste) directly to waterways during periods of significant rainfall.

COMBINED SEWER OVERFLOW LONG-TERM CONTROL PLAN (CSO LTCP): This Program encompasses projects designed to reduce overflows into the local waterways by 98%, and is now known as the Clean Rivers Project.

COMBINED SEWER SYSTEM LONG-TERM CONTROL PLAN (CSS LTCP): Final plan submitted by DC Water in July 2002 and approved by EPA in March 2005 to control Combined Sewer Overflow (CSO's) to the Districts waterways.

COMMERCIAL PAPER: Short-term (less than 270 days) notes issued by DC Water to provide interim financing of its capital improvement program. Commercial paper typically carries lower interest rates than long-term debt and is issued on a subordinate basis.

CUSTOMER CLASS-BASED VOLUMETRIC RATES: Rate differentiation based on the peaking demands of each customer class (residential, multi-family and non-residential).

CUSTOMER INFORMATION SYSTEM (CIS): System which DC Water utilizes for customer billing and information and other related services.

DC CLEAN RIVERS PROJECT: New name for the COMBINED SEWER OVERFLOW LONG TERM CONTROL PLAN (CSO LTCP), which is a program that encompasses projects designed to reduce overflows into the local waterways by 98%.

DEAMMONIFICATION: Involves Anammox bacteria working synergistically with Ammonia Oxidizing Bacteria to oxidize ammonia without organic carbon to produce nitrogen gas.

DEBT RATING: An independent opinion, based on a comprehensive quantitative and qualitative evaluation, of a company's financial position, operating performance, business profile and management. Specifically, the debt rating reflects a company's ability to meet its obligations to repay interest and principal on outstanding obligations to investors. DC Water's bond ratings provided by Moody's Investors Service, Standard & Poor's and Fitch Ratings are Aa2, AA, and AA+, respectively.

DEBT SERVICE: Amount of money necessary to pay principal and interest on senior outstanding notes and bonds in any given fiscal year.

DEBT SERVICE COVERAGE: Requirement of DC Water's master trust indenture and Board policy that provides that annual revenue available to pay debt service must exceed annual debt service by a certain percentage. DC Water's master trust indenture requires 120 percent senior debt service coverage; DC Water Board policy requires 140 percent senior debt service coverage.

EFFLUENT: Treated wastewater discharged from the Blue Plains Advanced Wastewater Treatment Plant.

ENABLING ACT: Legislation which established DC Water and defined its purpose and authority. DC Water's enabling legislation was initially enacted in 1996.

ENCUMBRANCES: Obligations in the form of purchase orders, contracts or salary commitments which are chargeable to an appropriation and for which a part of the appropriation is reserved. They cease to be encumbrances when paid or when an actual liability is released.

ENHANCED NITROGEN REMOVAL FACILITY: This Program Area represents the new name for the Total Nitrogen Program (BTN) which includes projects for new facilities and upgrades to existing facilities needed at Blue Plains to meet the total nitrogen discharge limit that has been included in DC Water's 2010 NPDES permit.

ENTERPRISE FUND: A fund established to finance and account for the acquisition, operation, and maintenance of governmental facilities and services, which are entirely or predominantly self-supporting by user charges. This type of fund uses the accrual basis of accounting. DC Water is responsible for two enterprise funds:

- 1) Water and Sewer Enterprise Fund
- 2) The District of Columbia Stormwater Enterprise Fund

ENVIRONMENTAL PROTECTION AGENCY (EPA): Federal agency responsible for environmental regulations and enforcement.

EXPENDITURES: Payment for goods and services received.

EXTENDABLE MUNICIPAL COMMERCIAL PAPER PROGRAM (EMCP): A money-market security issued by large organizations to obtain funds to meet short-term debt obligations, and is backed only by an issuing bank or corporation's promise to pay the face amount on the maturity date specified on the note.

EXTRACT, TRANSFORM and LOAD (ETL) refers to a process in database usage and especially in data warehousing that:

- Extracts data from homogeneous or heterogeneous data sources
- Transforms the data for storing it in proper format or structure for querying and analysis purpose
- Loads it into the final target (database, more specifically, operational data store, data mart, or data warehouse)

FABRIDAM: A dynamic weir (or dam) that inflates and deflates depending on the structure set point. Set points vary from structure to structure.

FISCAL YEAR: The twelve-month period used by DC Water, which begins October 1 and ends September 30 of the following calendar year.

FIXED ASSET: Long-lived property owned by an entity used by an entity in the production of its income. Tangible fixed assets include real estate, plant, and equipment.

GENERAL OBLIGATION DEBT: This is money that DC Water still owes the District of Columbia for bond issuance prior to the enabling act that created DC Water

HYBRID PLUG-IN VEHICLE: A hybrid electric vehicle that utilizes rechargeable batteries, or another energy storage device, that can be restored to full charge by connecting a plug to an external electric power source (usually a normal electric wall socket)

IMPERVIOUS SURFACE: an area that impedes or retards the percolation of water into the subsoil and impedes plant growth. Impervious surfaces include but are not limited to the following: roofprints, footprints of patios, driveways, private streets, other paved areas, tennis courts, and swimming pools, and any path or walkway that is covered by impervious material.

INFRASTRUCTURE: DC Water's facilities, services, and installations needed for its functioning, such as its water, sewer and customer delivery systems.

INTER-MUNICIPAL AGREEMENT OF 1985 (IMA): This agreement outlines the operating and financial responsibilities for wholesale wastewater treatment services at Blue Plains. Signatories to the IMA include the District of Columbia, Montgomery and Prince George's Counties in Maryland, Fairfax County, Virginia, and the Washington Suburban Sanitary Commission.

INTERCEPTORS: The large pipes that convey wastewater from the collection system to DC Water's wastewater treatment plant, Blue Plains.

INTERNAL IMPROVEMENT PLAN (IIP): Operational improvement plans for various operating departments across DC Water that will result in improved service and cost savings to DC Water's customers. Proposed improvements are a function of new capital projects, investments in technology, and new business processes. IIP's have been developed for the Departments of Wastewater Treatment, Maintenance Services, and Customer Service, and are in process for the Departments of Water and Sewer Services.

INVERTED BLOCK RATE STRUCTURES: Is a schedule of rates applicable to blocks of increasing usage in which the usage in each succeeding block is charged at a higher unit rate than in the previous blocks. Generally, each successive block rate may be applicable to a greater volume of water delivery than the preceding block(s).

JOINT USE SEWERAGE FACILITIES: A list of specific facilities identified in the DC Official Code, Section #34-2202.01(4).

LIFELINE RATE: A lifeline rate for the first 4 Ccf of Single Family Residential (SFR) water use to reflect baseline usage by residential customers without peaking cost.

LOCAL SMALL DISADVANTAGED BUSINESS ENTERPRISE (LSDBE): Business entities that are encouraged to do business in the District through supportive legislation, business development programs, and agency and public/private contract compliance.

LOW IMPACT DEVELOPMENT (LID): Integrates ecological and environmental considerations into all phases of urban planning, design and construction in order to avoid encroaching on environmentally fragile or valuable lands, and to decrease runoff volumes and peak flow impacts.

MASTER FACILITIES PLAN: A twenty-year plan that outlines proposed capital improvements across DC Water. This plan is updated every three to five years.

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4): A regulatory program for controlling stormwater pollution.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES): A permit issued by the EPA that governs effluent discharges into various rivers and waterways by Blue Plains and DC Water's sewer system.

NINE MINIMUM CONTROLS (NMC): Nine EPA-designated activities that DC Water must undertake to reduce Combined Sewer Overflow (CSO) while implementing its Long Term Control Plan (LTCP).

NITRIFICATION: An aerobic process in which bacteria changes the ammonia and organic nitrogen in wastewater into oxidized nitrogen.

OPERATING BUDGET: The budget that encompasses the day-to-day activities for DC Water. The operating budget includes employee salaries, supplies, and other non-personnel items related to current activities. The operating budget also includes other costs including debt service and payment in lieu of taxes/right of way fees.

OPERATING RESERVE: Reserve established by the Board of Directors equivalent to approximately 120 days of budgeted operating and maintenance expenses with the objective of maintaining at least \$125.5 million.

OPERATIONS & MAINTENANCE (O&M): The activities related to the performance of routine, preventive, and predictive, actions aimed at preventing DC Water's equipment and infrastructure from failure or decline, with the goal of increasing efficiency, reliability, and safety.

OUTFALL: The place or structure where effluent is discharged into receiving waters.

PAYMENT IN LIEU of TAXES (PILOT): Amounts which DC Water pays each fiscal year to the District and institutions in which its facilities are located. Consistent with the provisions of DC Water's Enabling Act, these payments are to be based on services received and certified from the District of Columbia.

PLANT RESIDUALS: In 2003, the EPA issued a revised NPDES permit to the Washington Aqueduct (WAD) and entered into a Federal Facilities Compliance Agreement (the federal agency equivalent of an Administrative Order) requiring WAD, to have in operation, by Dec 31, 2009, a new process, which dewateres the residuals on site and trucks them off-site for disposal.

PLUG-IN ELECTRIC VEHICLE: Any motor vehicle that can be recharged from an external source of electricity, such as wall sockets, and the electricity stored in the rechargeable battery packs drives or contributes to drive the wheels

POTOMAC INTERCEPTOR: Fifty-mile interceptor that carries wastewater from Loudoun and Fairfax Counties in Virginia and Montgomery County in Maryland to Blue Plains.

PRIMARY TREATMENT: A wastewater treatment process that allows those substances in wastewater that readily settles or floats to be separated from the water being treated.

PRINCIPAL: The total amount of money being borrowed or lent.

PROCESS COMPUTER CONTROL SYSTEM (PCCS): Electronically monitors and controls all treatment processes and facilities.

RATE STABILIZATION FUND: A fund established by the Board of Directors, which is used to implement rate increases on a gradual and predictable basis.

RESERVES: An accounting entry that properly reflects contingent liabilities.

REVENUE: An increase in (sources of) fund financial resources other than from inter-fund transfers and debt issue proceeds. Revenues should be classified by fund and source.

REVENUE BONDS: Bonds payable from specific source of revenue and which do not pledge the full faith and credit of the issuer.

RIGHT-OF-WAY FEE (ROW): A permit fee that the District of Columbia Government charges DC Water for water and sewer conduits that it occupies within the District of Columbia.

SAFE DRINKING WATER ACT (SDWA): Act passed by the U.S. Congress (most recently amended in 1996) to control drinking water quality.

SECONDARY TREATMENT: Usually following primary treatment, secondary treatment employs microorganisms to reduce the level of biochemical oxygen demand (BOD) in wastewater.

SENIOR DEBT: Debt whose terms in the event of bankruptcy require it to be repaid before subordinated debt receives any payment.

SLUDGE: Solid residue from wastewater treatment.

SUBORDINATED DEBT: Debt over which senior debt takes priority. In the event of bankruptcy, subordinated debtholders receive payment only after senior debt claims are paid in full.

SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA): Equipment and computer technology used to monitor and control the water distribution and wastewater conveyance systems.

SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP): A project DC Water is funding as part of its nine minimum control (NMC) CSO consent order.

SYSTEM AVAILABILITY FEE (SAF): Fee assessed to new development (or redevelopment) to recover the investment in available system capacity, based on meter size.

WASHINGTON AQUEDUCT: A division of the U.S. Army Corps of Engineers which owns and operates the water treatment facilities for DC Water, Arlington and Falls Church, Virginia. DC Water purchases treated drinking water on a wholesale basis from the Washington Aqueduct, and is responsible for approximately 73 percent of the Aqueduct's costs.

WATER SYSTEM REPLACEMENT FEE (WSRF): A fixed monthly fee designed to fund the 1 percent renewal and replacement of aging water infrastructure for residential, multi-family and non-residential customers.

ACRONYMS

ADA: AMERICANS WITH DISABILITY ACT

AED: AUTOMATED EXTERNAL DEFIBRILLATOR

AFV: ALTERNATIVE FUELED VEHICLE

AMI: ADVANCED METERING INFRASTRUCTURE

AMR: AUTOMATIC METER READING

AMSA: ASSOCIATION OF METROPOLITAN SEWERAGE AGENCIES

ANC: ADVISORY NEIGHBORHOOD COMMISSION

ART: ADVANCED RESEARCH TESTING

BAB's: BUILD AMERICA BONDS

BOD: BIOCHEMICAL OXYGEN DEMAND

BP: BLUE PLAINS

CAFR: COMPREHENSIVE ANNUAL FINANCIAL REPORT

CAP: CUSTOMER ASSISTED PROGRAM

CFCI: CASH FINANCED CAPITAL IMPROVEMENTS

CHP: COMBINED HEATING POWER

CIP: CAPITAL IMPROVEMENT PROGRAM

CIS: CUSTOMER INFORMATION SYSTEM

CMF: CENTRAL MAINTENANCE FACILITY

CMOM: CAPACITY MANAGEMENT OPERATION and MAINTENANCE

COBRA: THE CONSOLIDATED OMNIBUS BUDGE RECONCILIATION ACT OF 1985

COF: CENTRAL OPERATIONS FACILITY

COG: METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS

CSO: COMBINED SEWER OVERFLOWS

CSO LTCP: COMBINED SEWER OVERFLOW LONG-TERM CONTROL PLAN

CSP: COMPREHENSIVE SAFETY PROGRAM

CSRS: CIVIL SERVICE RETIREMENT SYSTEM

CSS LTCP: COMBINED SEWER SYSTEM LONG-TERM CONTROL PLAN

CWA: CLEAN WATER ACT

CWSFR: CLEAN WATER STATE REVOLVING FUND

DCRA: DISTRICT OF CONSUMER AND REGULATORY AFFAIRS

DDOE: DISTRICT DEPARTMENT OF ENVIRONMENT

DDOT: DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION

DETS: DEPARTMENT OF ENGINEERING AND TECHNICAL SERVICES

DRBCP: DISASTER RECOVERY AND BUSINESS CONTINUITY PLAN

DSLFL: DEWATERED SLUDGE LOADING FACILITY

DSS: DEPARTMENT OF SEWER SERVICES

DWS: DEPARTMENT OF WATER SERVICES

DWWT: DEPARTMENT OF WASTEWATER TREATMENT

EBU: EQUIVALENT BILLING UNIT

EDMC: ENGINEERING DOCUMENT MANAGEMENT AND CONTROL

EEOC: EQUAL EMPLOYMENT OPPORTUNITY COMMISSION

EMA: EMERGENCY MANAGEMENT AGENCY

EMCP: EXTENDABLE MUNICIPAL COMMERCIAL PAPER PROGRAM

ENRF: ENHANCED NITROGEN REMOVAL FACILITIES

EOC: EMERGENCY OPERATIONS CENTER

EPA: ENVIRONMENTAL PROTECTION AGENCY

ERDMS: ENTERPRISE RECORDS AND DOCUMENT MANAGEMENT SYSTEM

ERU: EQUIVALENT RESIDENTIAL UNIT

ESF: EMERGENCY SUPPORT FUNCTION

ETL: EXTRACT, TOOL, LOAD

FEMS: FIRE AND EMERGENCY MANAGEMENT SERVICES

FOC: FIBER OPTIC CABLE

FOG: FATS, OIL, AND GREASE

GFOA: GOVERNMENT FINANCE OFFICERS ASSOCIATION

GICD: GREEN INFRASTRUCTURE CONSENT DECREE

GIS: GEOGRAPHICAL INFORMATION SYSTEM

HPEV: HYBRID PLUG-IN VEHICLE

HPRP: HIGH PRIORITY REHABILITATION PROGRAM

HUNA: HIGH USAGE NOTIFICATION APPLICATION

HVAC: HEATING VENTILATION AND AIR CONDITIONING

I&C: INSTRUMENTATION AND CONTROL

IAC: IMPERVIOUS AREA CHARGE

IFB: INVITATION FOR BID

IIP: INTERNAL IMPROVEMENT PLAN

IMA: INTER-MUNICIPAL AGREEMENT

IVR: INTERACTIVE VOICE RESPONSE

JUDD: JOINT UTILITY DISCOUNT DAY

LID: LOW IMPACT DEVELOPMENT

LOTO: LOG OUT TAG-OUT

LSDBE: LOCAL SMALL DISADVANTAGED BUSINESS ENTERPRISE

LSR: LEAD SERVICE REPLACEMENT

LTCP: LONG TERM CONTROL PLAN

MBE: MINORITY BUSINESS ENTERPRISE

MGD: MILLION GALLONS PER DAY

MOU: MEMORANDUM OF UNDERSTANDING

MPT: MAIN PROCESS TRAIN

MS4: MUNICIPAL SEPARATE STORM SEWER SYSTEM

NEB: NORTH EAST BOUNDARY

NMC: NINE MINIMUM CONTROLS

NPDES: NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

NWBSO: NORTHWEST BOUNDARY SEWER OVERFLOW

O&M: OPERATIONS & MAINTENANCE

OCIP: OWNER CONTROLLED INSURANCE PROGRAM

OEM: ORIGINAL EQUIPMENT MANUFACTURER

PACT: POSITIVE ATTITUDE, ACCOUNTABILITY, COMMUNICATION AND TEAMWORK

PBS: PUBLIC BROADCASTING SERVICE

PCCS: PROCESS COMPUTER CONTROL SYSTEM

PDMS: PAYABLES DOCUMENT MANAGEMENT SYSTEMS

PEV: PLUG-IN ELECTRIC VEHICLE

PILOT: PAYMENT IN LIEU OF TAXES

PLC: PROGRAM LOGIC CONTROL

PM: PREVENTIVE MAINTENANCE

PPM: PARTS PER MILLION

PRV: PRESSURE RELEASE VALVE

PS: PUMPING STATION

PSA: PUBLIC SERVICE ANNOUNCEMENT

RFP: REQUEST FOR PROPOSAL

RFQ: REQUEST FOR QUOTATION

RSF: RATE STABILIZATION FUND

RWWP: RAW WASTEWATER PUMP STATION

SDWA: SAFE DRINKING WATER ACT

SEP: SUPPLEMENTAL ENVIRONMENTAL PROJECT

SOP: STANDARD OPERATING PROCEDURE

SOX: SARBANES OXLEY ACT

SPLASH: SERVING PEOPLE BY LENDING A SUPPORTING HAND

SSO: SANITARY SEWER OVERFLOW

TEAMS: TOTAL ENTERPRISE ASSET MANAGEMENT SYSTEM

TMDL: TOTAL MAXIMUM DAILY POLLUTANT LOADS

TN: TOTAL NITROGEN

SAF: SYSTEM AVAILABILITY FEE

SCADA: SUPERVISORY CONTROL AND DATA ACQUISITION

UAMI: UPPER ANACOSTIA MAIN INTERCEPTOR

ULSD: ULTRA LOW SULFUR DIESEL

VAV: VARIABLE AIR VOLUME

VEP: VALVE EXERCISE PROGRAM

VIT: VEHICLE INFORMATION TRANSMITTER

WAD: WASHINGTON AQUEDUCT

WBE: WOMEN BUSINESS ENTERPRISE

WSRF: WATER SYSTEM REPLACEMENT FEE

WSSC: WASHINGTON SUBURBAN SANITARY COMMISSION

WWTP: WASTERWATER TREATMENT PLANT

Presented and Adopted: December 3, 2015
SUBJECT: Approval of Fiscal Year 2016 - 2025 Ten-Year Financial Plan

#15-103
RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("DC Water") at its meeting held on December 3, 2015 upon consideration of a joint-use matter decided by a vote of eight (8) in favor and none (0) opposed, to take the following action with respect to the Fiscal Year 2016 - 2025 Financial Plan.

WHEREAS, prudent utility financial management requires a long-term financial plan that integrates common elements of the ten-year capital improvement program, future capital financing plans, projected operating and maintenance budgets, revenue requirements and projected rate increases to support long-term capital and operating needs; and

WHEREAS, the Board, in Resolutions 11-10 and 13-57, has adopted a series of financial policies in the areas of capital financing, long-term financial planning, and rate-setting to assure the short-term and long-term financial health of DC Water; and

WHEREAS, adherence to these financial policies has allowed the DC Water to receive strong bond ratings that will reduce debt service costs over the ten-year planning period; and

WHEREAS, consistent with the Board policies, the General Manager has prepared a ten-year financial plan in conjunction with the proposed FY 2017 operating and capital budgets; and

WHEREAS, the ten-year financial plan is based on assumptions detailed in the proposed Fiscal Year 2017 Operating and Capital Budgets; and

WHEREAS, the ten-year financial plan is consistent with projections appearing in the attached Schedules A, B and C of this resolution; and

WHEREAS, on November 17, 2015 and November 20, 2015, the DC Retail Water and Sewer Rates Committee and the Finance and Budget Committee, respectively, met, reviewed and recommended that the Board adopt the ten-year financial plan as recommended by the General Manager.

NOW THEREFORE BE IT RESOLVED THAT:

1. The Board hereby accepts and approves the proposed Fiscal Year 2016 - 2025 Financial Plan that is supported by the attached Schedules A, B and C and the proposed Fiscal Year 2017 Operating and Capital Budgets.

This resolution is effective immediately.


Secretary to the Board of Directors

District of Columbia Water & Sewer Authority

FY 2016 - FY 2025 Financial Plan

(In 000's)

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
OPERATING										
Retail*	489,504	480,278	506,124	532,993	561,367	590,311	616,271	640,056	663,883	687,688
Wholesale*	79,458	79,946	82,344	84,814	87,359	89,979	92,679	95,459	98,323	101,273
Other	31,553	32,580	30,217	32,107	33,998	37,067	39,695	40,220	40,571	41,405
RSF										
Operating Receipts (1)	\$ 580,514	\$ 592,803	\$ 618,685	\$ 649,914	\$ 682,123	\$ 717,378	\$ 748,644	\$ 775,735	\$ 802,777	\$ 830,366
Operating Expenses	(324,202)	(320,651)	(329,634)	(342,414)	(352,367)	(362,616)	(373,168)	(384,034)	(395,223)	(406,743)
Debt Service	(157,640)	(159,346)	(186,374)	(204,397)	(222,365)	(240,841)	(259,777)	(269,414)	(266,823)	(273,226)
Cash Financed Capital Improvement (CFCI)	\$ (23,478)	\$ (24,014)	\$ (25,306)	\$ (26,650)	\$ (28,058)	\$ (29,516)	\$ (30,814)	\$ (32,003)	\$ (33,184)	\$ (34,384)
Net Revenues After Debt Service	\$ 76,197	\$ 78,912	\$ 76,170	\$ 76,454	\$ 79,323	\$ 84,405	\$ 93,868	\$ 101,284	\$ 106,536	\$ 116,010
Operating Reserve-Beg Balance	160,056	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000
Other Misc (Disbursements)/Receipts										
Wholesale/Federal True Up	(17,179)	(24,201)	(4,762)							
Customer Rebate										
Transfers To RSF	(19,000)		(9,000)	(5,000)	(5,000)	(4,000)	(7,000)	(9,000)	(19,000)	(12,000)
Transfers To DC PILOT Fund										
Pay-Go Financing	(59,073)	(54,711)	(61,419)	(71,454)	(74,323)	(80,405)	(86,866)	(92,284)	(89,536)	(102,194)
Operating Reserve - Ending Balance	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 140,000	\$ 141,816
Rate Stabilization Fund Balance RSF (2)	\$ (51,460)	\$ (51,460)	\$ (60,460)	\$ (65,450)	\$ (70,450)	\$ (74,450)	\$ (81,450)	\$ (80,450)	\$ (109,450)	\$ (121,460)
Senior Debt Service Coverage	482%	430%	405%	442%	460%	482%	473%	470%	551%	582%
Combined Debt Service Coverage	153%	159%	157%	159%	155%	155%	156%	157%	155%	159%
Actual/Projected Water/Sewer Rate Increases	5.5%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
*Operating Receipts \$ Increase/Decrease										
Retail	65,394	10,774	25,846	26,869	28,374	28,944	26,960	23,765	23,827	23,808
Wholesale	(1,772)	488	2,398	2,470	2,644	2,621	2,659	2,780	2,864	2,950
*Operating Receipts % Increase/Decrease										
Retail	16.2%	2.3%	5.4%	5.3%	5.3%	5.2%	4.4%	3.9%	3.7%	3.6%
Wholesale	-2.2%	0.6%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

(1) Includes interest earnings on senior lien revenue bonds' debt service reserve fund
(2) FY 2016 planned transfer of \$19.0 million to Rate Stabilization Fund will bring the total fund balance to \$51.45 million

Schedule B

District of Columbia Water & Sewer Authority
 FY 2016 - FY 2025 Average Residential Customer Monthly Bill

	Units	Current FY 2016	Proposed FY 2017	Proposed FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
DC Water and Sewer Retail Rates ⁽¹⁾	Ccf	\$ 59.12	\$ 62.04	\$ 65.16	\$ 68.41	\$ 71.86	\$ 75.45	\$ 79.26	\$ 83.28	\$ 87.43	\$ 91.80
DC Water Clean Rivers IAC	ERU	20.30	22.24	25.18	28.19	31.43	34.67	37.16	39.06	40.84	42.49
DC Water Customer Metering Fee	5/8"	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
DC Water Water System Replacement Fee ⁽²⁾	5/8"	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
Subtotal DC Water Rates & Charges		\$ 89.58	\$ 94.44	\$ 100.50	\$ 106.76	\$ 113.45	\$ 120.28	\$ 126.58	\$ 132.50	\$ 138.43	\$ 144.45
Increase / Decrease		\$ 11.30	\$ 4.86	\$ 6.06	\$ 6.26	\$ 6.69	\$ 6.83	\$ 6.30	\$ 5.92	\$ 5.93	\$ 6.02
District of Columbia PILOT ⁽¹⁾	Ccf	\$ 3.14	\$ 3.21	\$ 3.28	\$ 3.35	\$ 3.41	\$ 3.48	\$ 3.55	\$ 3.61	\$ 3.68	\$ 3.75
District of Columbia Right-of-Way Fee ⁽¹⁾	Ccf	1.14	1.14	1.20	1.20	1.20	1.20	1.20	1.20	1.27	1.27
District of Columbia Stormwater Fee ⁽²⁾	ERU	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67
Subtotal District of Columbia Charges		\$ 6.95	\$ 7.02	\$ 7.15	\$ 7.22	\$ 7.28	\$ 7.35	\$ 7.42	\$ 7.48	\$ 7.62	\$ 7.69
Total Amount Appearing on DC Water Bill		\$ 96.53	\$ 101.46	\$ 107.65	\$ 113.98	\$ 120.73	\$ 127.63	\$ 134.00	\$ 139.98	\$ 146.05	\$ 152.14
Increase / Decrease Over Prior Year		\$ 11.36	\$ 4.93	\$ 6.19	\$ 6.33	\$ 6.75	\$ 6.90	\$ 6.37	\$ 5.98	\$ 6.07	\$ 6.09
Percent Increase in Total Bill		13.3%	5.1%	6.1%	5.9%	5.9%	5.7%	5.0%	4.5%	4.3%	4.2%

(1) Assumes average monthly consumption of 6.69 Ccf, or (5,004 gallons)

(2) District Department of the Environment stormwater fee of \$2.67 effective November 1, 2010

(3) DC Water "Water System Replacement Fee" of \$6.30 effective October 1, 2015

**District of Columbia Water & Sewer Authority
Retail Rates, Charges and Fees**

	Units	Current FY 2016	Proposed FY 2017	Proposed FY 2018
DC Water Retail Rates Water (Residential Lifeline 0 - 4 Ccf)	Ccf	\$ 3.08 \$	\$ 3.23 \$	\$ 3.39
DC Water Retail Rates Water (Residential > 4 Ccf)	Ccf	\$ 3.87 \$	\$ 4.06 \$	\$ 4.26
DC Water Retail Rates Water (Multi-Family)	Ccf	\$ 3.45 \$	\$ 3.62 \$	\$ 3.80
DC Water Retail Rates Water (Non-Residential)	Ccf	\$ 3.99 \$	\$ 4.19 \$	\$ 4.40
DC Water Retail Rates Sewer	Ccf	\$ 5.44 \$	\$ 5.71 \$	\$ 6.00
DC Water Clean Rivers IAC	ERU	\$ 20.30 \$	\$ 22.24 \$	\$ 25.18
DC Water Customer Metering Fee	5/8"	\$ 3.86 \$	\$ 3.86 \$	\$ 3.86
DC Water Water System Replacement Fee	5/8"	\$ 6.30 \$	\$ 6.30 \$	\$ 6.30
District of Columbia PILOT Fee	Ccf	\$ 0.47 \$	\$ 0.48 \$	\$ 0.49
District of Columbia Right of Way Fee	Ccf	\$ 0.17 \$	\$ 0.17 \$	\$ 0.18
District of Columbia Stormwater Fee	ERU	\$ 2.67 \$	\$ 2.67 \$	\$ 2.67

Presented and Adopted: December 3, 2015
Subject: Approval of Proposed Fiscal Year 2016 - 2025 Capital Improvement Program

#15-104
RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority, ("DC Water") at its meeting on December 3, 2015, upon consideration of a joint-use matter, decided by a vote of eight (8) in favor and none (0) opposed, to take the following action with respect to the Fiscal Year 2016 - 2025 Capital Improvement Program (10-Year Disbursement Plan and Lifetime Budget).

WHEREAS, the Board's financial policies require an annually updated 10-Year Financial Plan, which includes a 10-Year Capital Disbursement Plan; and

WHEREAS, at the budget workshop on November 5, 2015, the Chief Financial Officer, Chief Operating Officer, and Chief Engineer, briefed Board members on the Proposed 10-Year Disbursement Plan totaling \$3,660,600,000 and related Lifetime Budget, which totals \$10,409,899,000; and

WHEREAS, on November 19, 2015, the Environmental Quality and Sewerage Services and the Water Quality and Water Services Committees, in a joint meeting, reviewed the budget proposals and discussed in detail the budget drivers, strategic budget decisions, budget assumptions, customer and operational impacts, and recommended that the Board adopt the Proposed 10-Year Disbursement Plan totaling \$3,660,600,000 and related Lifetime Budget, which totals \$10,409,899,000; and

WHEREAS, on November 20, 2015, the Finance and Budget Committee reviewed the budget proposals and discussed in detail the budget drivers, strategic budget decisions, budget assumptions, customer and operational impacts, and recommended that the Board adopt the Proposed 10-Year Disbursement Plan totaling \$3,660,600,000, and related Lifetime Budget, which totals \$10,409,899,000.

NOW THEREFORE, BE IT RESOLVED THAT:

The Board hereby approves and adopts DC Water's Fiscal Year 2016 – 2025 Capital Improvement Program with the 10-Year Disbursement Plan totaling \$3,660,600,000 and related Lifetime Budget, which totals \$10,409,899,000 (Attachment A-1), and as further detailed in the General Manager and CEO's Proposed Fiscal Year 2017 Budget Presentation dated November 5, 2015 and accompanying materials.

This resolution is effective immediately.


Secretary to the Board of Directors

Presented and Adopted: December 3, 2015

**SUBJECT: Intent to Reimburse Capital Expenditures with Proceeds
of a Borrowing**

**#15-105
RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("DC Water"), at the Board meeting held on December 3, 2015, upon consideration of a joint-use matter, decided by a vote of eight (8) in favor and none (0) opposed, to take the following action.

WHEREAS, DC Water intends to acquire, construct and equip the items and projects set forth in Exhibit A hereto (collectively, the "Projects"); and

WHEREAS, plans for the Projects have advanced and DC Water expects to advance its own funds to pay expenditures related to the Projects ("Expenditures") prior to incurring indebtedness and to receive reimbursement for such Expenditures from proceeds of tax-exempt bonds or notes or taxable debt, or both.

NOW THEREFORE BE IT RESOLVED THAT:

1. DC Water utilizes the proceeds of tax-exempt bonds, taxable bonds or notes (the "Bonds") or other debt in an amount not currently expected to exceed \$443,000,000 to pay costs of the Projects. These costs include amounts heretofore unreimbursed pursuant to Resolution 15-20 of the Board adopted on February 5, 2015, plus amounts projected to be reimbursed during Fiscal Year 2016 – 2017.
2. DC Water intends to use the proceeds of the Bonds to reimburse itself for Expenditures with respect to the Projects made on or after the date that is 60 days prior to the date of this Resolution. DC Water reasonably expects on the date hereof that it will reimburse the Expenditures with the proceeds of the Bonds or other debt.
3. Each Expenditure was or will be, unless otherwise supported by the opinion of bond counsel, either (a) of a type properly chargeable to a capital account under general federal income tax principles (determined in each case as of the date of the Expenditure), (b) a cost of issuance with respect to the Bonds, (c) a nonrecurring item that is not customarily payable from current revenues, or (d) a grant to a party that is not related to or an agent of DC Water so long as such

grant does not impose any obligation or condition (directly or indirectly) to repay any amount to or for the benefit of DC Water.

4. DC Water makes a reimbursement allocation, which is a written allocation by DC Water that evidences DC Water's use of proceeds of the Bonds to reimburse an Expenditure, no later than 18 months after the later of the date on which the Expenditure is paid or the Project is placed in service or abandoned, but in no event more than three years after the date on which the Expenditure is paid. The DC Water recognizes that exceptions are available for certain "preliminary expenditures," costs of issuance, certain de minimis amounts, expenditures by "small issuers" and expenditures for any construction, the completion of which is expected to require at least five years.
5. The Board adopts this resolution confirming the "official intent" within the meaning of Treasury Regulations Section 1.150-2 promulgated under the Internal Revenue Code of 1986, as amended.

This resolution is effective immediately.


Secretary to the Board of Directors

EXHIBIT A — LIST OF PROJECTS

Blue Plains System

Non Process Facilities

Sanitary Sewer System

Combined Sewer System

DC Clean Rivers

Stormwater Sewer System

Water Pumping, Distribution and Storage

Metering and Capital Equipment

Washington Aqueduct

Presented and Adopted: December 3, 2015
Subject: Approval of Proposed Fiscal Year 2017 Operating Budget

#15-106
RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority, ("DC Water") at its meeting on December 3, 2015, upon consideration of a joint-use matter, decided by a vote of eight (8) in favor and none (0) opposed, to take the following action with respect to the Fiscal Year 2017 Proposed Operating Budget.

WHEREAS, at the budget workshop on November 5, 2015, Chief Financial Officer, Chief Operating Officer, and Chief Engineer, briefed Board members on the Proposed FY 2017 Operating Budget that totaled \$535,825,000; and

WHEREAS, on November 19, 2015, the Environmental Quality and Sewerage Services and the Water Quality and Water Service Committees, in a joint meeting, reviewed the budget proposals and discussed in detail the budget drivers, strategic budget decisions, budget assumptions, customer and operational impacts, and recommended that the Board adopt the FY 2017 Operating Budget that totals \$535,825,000; and

WHEREAS, on November 20, 2015, the Finance and Budget Committee reviewed the budget proposals and discussed in detail the budget drivers, strategic budget decisions, budget assumptions, customer and operational impacts, and recommended that the Board adopt the FY 2017 Operating Budget that totals \$535,825,000.

NOW THEREFORE BE IT RESOLVED THAT:

The Board hereby approves and adopts DC Water's Proposed Fiscal Year 2017 Operating Budget totaling \$535,825,000 and as further detailed in the General Manager and CEO's Proposed Fiscal Year 2017 Operating Budget Presentation dated November 5, 2015.

This resolution is effective immediately.


Secretary to the Board of Directors

Presented and Adopted: December 3, 2015
**SUBJECT: Proposed Fiscal Year 2017 and Fiscal Year 2018 Metered
Water and Sewer Service Rates, Right-of-Way (ROW),
Payment-in-Lieu of Taxes (PILOT) Fee, and Clean Rivers
Impervious Area Charge (CRIAC)**

#15-108
RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

The District members of the Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("DC Water") at the Board meeting held on December 3, 2015 upon consideration of a non-joint use matter, decided by a vote of four (4) in favor and none (0) opposed, to approve the following action with respect to the proposed Fiscal Year 2017 and Fiscal Year 2018 Metered Retail Rates for Water and Sewer Service, Clean Rivers Impervious Area Charge (IAC), the Right-of- Way Occupancy Fee Pass Through Charge (ROW), and Payment In Lieu of Taxes Fee (PILOT).

WHEREAS, the Board has adopted a revised rate setting policy that calls for rates, charges and fees that, together with other revenue sources, yield a reliable and predictable stream of revenues and will generate sufficient revenues to pay for DC Water's projected operating and capital expenses; and

WHEREAS, the Board has adopted various financial policies that require revenues to ensure compliance with Board policies regarding maintenance of senior debt coverage and cash reserves; and

WHEREAS, the DC Retail Water and Sewer Rates Committee met on November 17, 2015 to consider the proposed rate, charge and fee changes for Fiscal Year ("FY") 2017 and FY 2018; and

WHEREAS, DC Water has three classes of customers: residential, multi-family and non-residential, in accordance with Section 4104 of Title 21 of the District of Columbia Municipal Regulations (DCMR); and

WHEREAS, the DC Retail Water and Sewer Rates Committee recommended that the Board consider for public comment, a combined retail water and sewer rate increase of \$0.42 per one hundred cubic feet ("Ccf") (\$0.56 per 1,000 gallons) for the first 4 Ccf of Residential customer's water use (Lifeline) for FY 2017 and \$0.45 per one hundred cubic feet ("Ccf") (\$0.60 per 1,000 gallons) for the first 4 Ccf of Residential customer's water use (Lifeline) for FY 2018; and

WHEREAS, the increase in Lifeline water (Residential customer's first 4 Ccf) and sewer rates will result in a combined water and sewer rate of \$8.94 per Ccf (\$11.95 per 1,000 gallons) of metered water and sewer use for FY 2017 and a combined water and sewer rate of \$9.39 per Ccf (\$12.55 per 1,000 gallons) for FY 2018; and

WHEREAS, the DC Retail Water and Sewer Rates Committee recommended that the Board consider for public comment, a combined retail water and sewer rate increase of \$0.46 per Ccf (\$0.61 per 1,000 gallons) for water usage greater than 4 Ccf for Residential customers for FY 2017 and a combined retail water and sewer rate increase of \$0.49 per Ccf (\$0.66 per 1,000 gallons) for water usage greater than 4 Ccf for Residential customers for FY 2018; and

WHEREAS, the increase in water (Residential customers for water usage greater than 4 Ccf) and sewer rates will result in a combined water and sewer rate of \$9.77 per Ccf (\$13.06 per 1,000 gallons) of metered water and sewer use for FY 2017 and a combined water and sewer rate of \$10.26 per Ccf (\$13.72 per 1,000 gallons) of metered water and sewer use for FY 2018; and

WHEREAS, the DC Retail Water and Sewer Rates Committee recommended that the Board consider for public comment, a combined retail water and sewer rate increase of \$0.44 per Ccf (\$0.59 per 1,000 gallons) for Multi-family customers for FY 2017 and a combined retail water and sewer rate increase of \$0.47 per Ccf (\$0.63 per 1,000 gallons) for Multi-family customers for FY 2018; and

WHEREAS, the increase in Multi-family customer water and sewer rates will in a combined water and sewer rate of \$9.33 per Ccf (\$12.47 per 1,000 gallons) of metered water and sewer use for FY 2017 and a combined water and sewer rate of \$9.80 per Ccf (\$13.10 per 1,000 gallons) of metered water and sewer use for FY 2018; and

WHEREAS, the DC Retail Water and Sewer Rates Committee recommended that the Board consider for public comment, a combined retail water and sewer rate increase of \$0.47 per Ccf (\$0.63 per 1,000 gallons) for Non-Residential customers for FY 2017 and a combined retail rate increase of \$0.50 per Ccf (\$0.67 per 1,000 gallons) for Non-Residential customers for FY 2018; and

WHEREAS, the increase in Non-Residential customer water and sewer rates will result in a combined water and sewer rate of \$9.90 per Ccf (\$13.23 per 1,000 gallons) of metered water and sewer use for FY 2017 and a combined water and sewer rate of \$10.40 per Ccf (\$13.90 per 1,000 gallons) of metered water and sewer use for FY 2018; and

WHEREAS, the DC Retail Water and Sewer Rates Committee recommended that the Board consider for public comment a monthly increase in the Clean Rivers Impervious Area Charge of \$1.94 per Equivalent Residential Unit (ERU) for FY 2017 and a monthly increase in the Clean Rivers Impervious Area Charge of \$2.94 per Equivalent Residential

Unit (ERU) for FY 2018 to recover the \$2.6 billion costs of the Combined Sewer Overflow Long-Term Control Plan (CSO-LTCP); and

WHEREAS, the DC Retail Rates Committee recommended that the Board maintain the ROW fee at the current amount of \$0.17 per Ccf (\$0.23 per 1,000 gallons) of water used for FY 2017 and that the Board consider for public comment, an increase in the ROW fee of \$0.01 per Ccf (\$0.01 per 1,000 gallons) for FY 2018 to recover the full cost of the District of Columbia government; and

WHEREAS, the DC Retail Water and Sewer Rates Committee recommended that the Board consider for public comment, an increase in the PILOT fee of \$0.01 per Ccf (\$0.01 per 1,000 gallons) for FY 2017 and an increase in the PILOT fee of \$0.01 per Ccf (\$0.01 per 1,000 gallons) for FY 2018 to recover the full cost of the District of Columbia government fees; and

WHEREAS, adoption of these rates and fee changes would increase the monthly bill of the average Residential customer using 6.69 Ccf (or 5,004 gallons) by approximately \$4.93 per month or \$59.16 per year for FY 2017 and by approximately \$6.19 per month or \$74.28 per year for FY 2018; and

WHEREAS, DC Water's retail revenue projections for Fiscal Year 2017 reflect an approximate \$19.2 million increase due to the proposed \$11.4 million increase in retail water and sewer rates, an approximate \$0.1 million increase due to the proposed PILOT fee increase, and an approximate \$7.7 million increase due to the proposed Clean Rivers IAC increase; and

WHEREAS, DC Water's retail revenue projections for Fiscal Year 2018 reflect an approximate \$25.9 million increase due to the proposed \$11.9 million increase in retail water and sewer rates, an approximate \$0.4 million increase due to the proposed PILOT fee increase, and an approximate \$13.6 million increase due to the proposed Clean Rivers IAC increase; and

WHEREAS, the public comment and notification process of the proposed rate and fee increases will occur over the next several months and it is the intent of the Board to take final action on the proposed rate and fee increases at the conclusion of the notification and comment period.

NOW THEREFORE BE IT RESOLVED THAT:

1. The Board finds that DC Water's projected expenditures require that it propose, for public comment, the rate and fee increases described below:

Retail Metered Water Service Rates

a. An increase in the rate for metered water services:

	FY 2016		FY 2017		FY 2018		FY 2017 vs. FY 2016 Incr. / (Decr.)		FY 2018 vs. FY 2017 Incr. / (Decr.)	
	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.
Residential customers - (0-4)	\$3.08	\$ 4.12	\$3.23	\$ 4.32	\$3.39	\$ 4.53	\$ 0.15	\$ 0.20	\$ 0.16	\$ 0.21
Residential customers - (>-4)	\$3.87	\$ 5.17	\$4.06	\$ 5.43	\$4.26	\$ 5.70	\$ 0.19	\$ 0.26	\$ 0.20	\$ 0.27
Multi-Family customers	\$3.45	\$ 4.61	\$3.62	\$ 4.84	\$3.80	\$ 5.08	\$ 0.17	\$ 0.23	\$ 0.18	\$ 0.24
Non-Residential cutomers	\$3.99	\$ 5.33	\$4.19	\$ 5.60	\$4.40	\$ 5.88	\$ 0.20	\$ 0.27	\$ 0.21	\$ 0.28

Retail Sewer Service Rates (Metered and Unmetered)

b. An increase in the rate for metered sewer services:

	FY 2016		FY 2017		FY 2018		FY 2017 vs. FY 2016 Incr. / (Decr.)		FY 2018 vs. FY 2017 Incr. / (Decr.)	
	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.
Residential customers	\$5.44	\$ 7.27	\$5.71	\$ 7.63	\$6.00	\$ 8.02	\$ 0.27	\$ 0.36	\$ 0.29	\$ 0.39
Multi-Family customers	\$5.44	\$ 7.27	\$5.71	\$ 7.63	\$6.00	\$ 8.02	\$ 0.27	\$ 0.36	\$ 0.29	\$ 0.39
Non-Residential cutomers	\$5.44	\$ 7.27	\$5.71	\$ 7.63	\$6.00	\$ 8.02	\$ 0.27	\$ 0.36	\$ 0.29	\$ 0.39

c. An increase in the annual Clean Rivers Impervious Area Charge (CRIAC) from \$243.60 to \$266.88 per Equivalent Residential Unit (ERU) in FY 2017 and from \$266.88 to \$302.16 per Equivalent Residential Unit (ERU) in FY 2018.

The charge per ERU will be billed monthly at:

	FY 2016	FY 2017	FY 2018	FY 2017 vs. FY 2016 Incr. / (Decr.)	FY 2018 vs. FY 2017 Incr. / (Decr.)
	ERU	ERU	ERU	ERU	ERU
Residential customers	\$20.30	\$22.24	\$25.18	\$1.94	\$2.94
Multi-Family customers	\$20.30	\$22.24	\$25.18	\$1.94	\$2.94
Non-Residential customers	\$20.30	\$22.24	\$25.18	\$1.94	\$2.94

**District of Columbia Pass Through Charge
Right-of-Way Occupancy / PILOT Fee**

- There is no increase in the **Right-of-Way Occupancy Fee** in FY 2017:
- An increase in the **Right-of-Way Occupancy Fee** for FY 2018:

	FY 2016		FY 2017		FY 2018		FY 2017 vs. FY 2016 Incr. / (Decr.)		FY 2018 vs. FY 2017 Incr. / (Decr.)	
	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.
Residential customers	\$0.17	\$ 0.23	\$0.17	\$ 0.23	\$0.18	\$ 0.24	\$0.00	\$0.00	\$ 0.01	\$ 0.01
Multi-Family customers	\$0.17	\$ 0.23	\$0.17	\$ 0.23	\$0.18	\$ 0.24	\$0.00	\$0.00	\$ 0.01	\$ 0.01
Non-Residential cutomers	\$0.17	\$ 0.23	\$0.17	\$ 0.23	\$0.18	\$ 0.24	\$0.00	\$0.00	\$ 0.01	\$ 0.01

- d. An increase in the **Payment-in-Lieu of Taxes Fee** for FY 2017 and FY 2018:

	FY 2016		FY 2017		FY 2018		FY 2017 vs. FY 2016 Incr. / (Decr.)		FY 2018 vs. FY 2017 Incr. / (Decr.)	
	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.	Ccf	1,000 Gal.
Residential customers	\$0.47	\$ 0.63	\$0.48	\$ 0.64	\$0.49	\$ 0.65	\$ 0.01	\$ 0.01	\$ 0.01	\$ 0.01
Multi-Family customers	\$0.47	\$ 0.63	\$0.48	\$ 0.64	\$0.49	\$ 0.65	\$ 0.01	\$ 0.01	\$ 0.01	\$ 0.01
Non-Residential cutomers	\$0.47	\$ 0.63	\$0.48	\$ 0.64	\$0.49	\$ 0.65	\$ 0.01	\$ 0.01	\$ 0.01	\$ 0.01

2. The General Manager is authorized to take all steps necessary in his judgment and as otherwise required, to initiate the public comment process and shall provide notice of the proposed rate adjustments and fees in the manner provided by 21 DCMR Chapter 40 and the District of Columbia's Administrative Procedures.

This resolution is effective immediately.


 Secretary to the Board of Directors