



Approved FY 2024 Budgets
Section V: CAPITAL PROGRAMS



Watertight Test of Potomac Interceptor MH Walls

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

FY 2022 Actual	FY 2023 - FY 2032 CIP Disbursement Plan										Lifetime Budget	
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-yr Total	
\$345,336	\$501,437	\$604,671	\$784,064	\$838,249	\$859,188	\$892,646	\$841,454	\$677,036	\$507,647	\$444,676	\$6,951,067	\$14,627,174



DC Water Headquarters



Bryant Street Pump Station



Blue Plains

Overview

DC Water’s Capital Improvement Program (CIP) supports the continuation of major capital asset investment in programs and projects that will upgrade the water distribution and sewer system as well as maintain compliance with federal mandates and improve the efficiency of operations. The CIP includes all mandated projects, rehabilitation of assets required to meet permit and other regulatory requirements, and projects to meet the immediate needs necessary to maintain existing service levels.

The CIP is presented on two different basis: the ten-year disbursement plan and lifetime budget.

- Ten-Year Disbursement Plan** – This category represents the actual cash disbursements “cash out of the door” for each project, excluding contingencies. It provides a more realistic approach and basis for forecasting the anticipated level of rate increases, as well as, timing for pursuing capital financing. In addition, the ten-year disbursement plan includes projected completion dates, program management, and in-house labor costs.
- Lifetime Budget** – The “lifetime” budget, reflects historical spending prior to, during, and beyond the current ten-year period, including in-house labor. Lifetime budgets represent projects active during the ten-year period and are the primary area of focus in budget development and day-to-day monitoring. In addition to “active” projects, the lifetime budget includes projects for which all activities have been completed during the previous fiscal year and are listed as “closed” in the CIP. Closed projects are dropped from the CIP in the next fiscal year, and new projects are continuously added, as needed, each fiscal year.

Detailed information on the individual projects can be found online at www.dewater.com

CIP Development and Approval Process

DC Water’s capital budget review process begins each year in the spring and spans over several months. The Department of CIP Infrastructure Management, working with the Engineering Cluster, conducts a review of major accomplishments, priorities, status of major projects, and emerging regulatory and related issues impacting the capital program. The review process is a collaborative effort and involves departments with responsibility for managing the operations of DC Water services and capital projects; staff from the department of Finance; and members of the Senior Executive Team. The CIP is integrated into DC Water’s ten-year financial plan; and is the primary driver of DC Water’s projected rate increases over the ten-year planning period.

The formulation of the capital project budgets takes into consideration the imperatives of the Blueprint 2.0. All CIP project budget requests are prioritized to include regulatory requirements, mandates, health and safety, Board policy, potential failure, and good engineering practices. These criteria align with the five imperatives of the Blueprint 2.0 - to invest in high performing network of systems and assets to minimize service disruptions (**Reliable**), mitigate future impacts of climate change and flood hazards (**Resilient**), ensure inclusive and diverse representation (**Equitable**), embed a sustainably driven operating and delivery model (**Sustainable**) and improve water quality and ensure efficient use of economic resources (**Healthy, Safe and Well**). Starting with the FY 2024 budget process, DC Water incorporated the equity approach which entailed the use of risk and equity scores in prioritizing projects mainly for linear infrastructure such as the Lead Service Line Replacements, Small diameter Water Mains and Local Sewers. This approach would be considered for other CIP projects in the future as applicable.

DC Water’s operating and capital budget proposals are delivered to the Board of Directors at the Budget Workshop in January. Management conducts two months of Committee review meetings with the Environmental Quality and Operations; Finance and Budget; and DC Retail Water and Sewer Rates Committees in January. The operating budgets, capital improvement program, and ten-year financial plan were adopted by the full Board on March 2, 2023.

After adoption by the Board of Directors, DC Water is required to submit its annual operating and ten-year capital budgets 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 commitments within the service areas may vary up or down for a particular year. However, they are “not to exceed the total” FY 2024 – FY 2032 capital authority request in the amount of \$6.4 billion.

It should be noted that the execution of contracts requires the approval of the CEO and General Manager, as Contracting Officer, or his delegee. Major projects and contracts valued at \$1 million or more require DC Water Board approval.

Capitalization Policy

DC Water’s capitalization policy determines how expenditures will be recognized and accounted. DC Water matches the financing of an asset to its projected useful life and the policy determines how projects will be financed.

DEFINITION:

- Capital Project – an average life of 30 years and is financed with long-term debt
- Capital Equipment – has a life of at least three years, is financed with short-term debt or cash, and an individual component cost of \$5,000 or more. The cost of capital equipment purchases that are part of a clearly identified capital program can be aggregated. In which case, all costs relating to the capital program are capitalized at the project level regardless of the individual component amount.

The following guidelines are used to categorize items as either capital equipment or an operating expense.

Expenditure Type	Financial Treatment	Definition
Rehabilitation		
Enhancement	Capitalize	Addition/replacement of a sub-component of an asset, to improve the “attributes” of the asset. This will include all such work as valve replacement or replacement of a section of a pipe.
Refurbishment	Capitalize	Expenditure on an asset that creates a material extension to the Estimated Operating Life (EOL) of the asset. This is distinct from maintenance work, which is carried out to ensure that an asset is able to perform its designated function for its normal EOL. An example of refurbishment would be pipe lining and pipe grouting.
Rebuild	Capitalize	Expenditures to reconstruct, renovate, remodel, remake or reassemble an asset or infrastructure after it has been damaged or destroyed. An example of a rebuild is a valve rehabilitation, reconstruction of the valve elements
Replacement	Capitalize	Expenditure to replace substantially all of an asset. An example is replacement and installation of a new pipe including the ensuing disinfection applications and all associated activities relating to the replacement
Repair	Expense	Expenditure on an asset that maintains or restores the design functionality or attributes of an asset, enabling the asset to perform its intended function during its EOL. Examples of these will include service line repairs such as clamp application on service pipes, bolt application/replacement/adjustment, small scale chemical applications such as use of dechlorinating tablets, meter shut off valve, curb stop, small service line repairs that does not involve replacement nor meter housing, high pressure jet vacuum or any other obstruction removal methodology
Maintenance	Expense	Scheduled and recurring costs for the continued performance of an asset



Capital Improvement Program

(\$ in thousands)

	FY 2022 Actual	FY 2023 - FY 2032 Disbursement Plan										Lifetime Budget	
		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032		10-yr Total
NON PROCESS FACILITIES													
Facility Land Use	\$17,788	\$22,104	\$24,614	\$25,247	\$32,462	\$24,646	\$3,879	\$2,293	\$2,000	\$2,000	\$2,000	\$141,246	\$269,010
	\$17,788	\$22,104	\$24,614	\$25,247	\$32,462	\$24,646	\$3,879	\$2,293	\$2,000	\$2,000	\$2,000	\$141,246	\$269,010
WASTEWATER TREATMENT													
Liquid Processing	\$27,103	\$41,050	\$28,977	\$47,726	\$83,307	\$75,562	\$77,488	\$89,520	\$59,692	\$61,829	\$60,116	625,266	\$1,272,081
Plantwide	\$8,732	\$14,596	\$39,838	\$51,239	\$40,909	\$50,182	\$39,544	\$25,388	\$20,231	\$16,742	\$3,140	301,809	\$530,955
Solids Processing	\$26,999	\$12,939	\$14,427	\$17,374	\$12,887	\$17,573	\$24,873	\$17,971	\$30,464	\$34,339	\$21,011	203,857	\$944,041
Enhanced Nitrogen Removal Facilities	\$6,443	\$3,322	\$1,201	\$1,346	\$637	\$2,238	\$1,414	\$7,420	\$21,779	\$10,188	\$405	49,949	\$788,082
	\$69,277	\$71,907	\$84,442	\$117,684	\$137,739	\$145,555	\$143,319	\$140,299	\$132,166	\$123,098	\$84,671	\$1,180,881	\$3,535,160
COMBINED SEWER OVERFLOW													
DC Clean Rivers Program	\$116,099	\$104,558	\$100,329	\$135,619	\$172,452	\$136,585	\$146,829	\$132,388	\$33,847	\$0	\$0	962,607	\$2,992,358
Combined Sewer Overflow Program	\$1,576	\$3,473	\$9,927	\$12,445	\$15,927	\$12,825	\$10,432	\$5,997	\$12,182	\$12,465	\$4,593	100,267	\$223,714
	\$117,675	\$108,031	\$110,256	\$148,064	\$188,379	\$149,410	\$157,261	\$138,385	\$46,029	\$12,465	\$4,593	\$1,062,875	\$3,216,072
STORMWATER													
Storm Local Drainage Program	\$7	\$654	\$1,686	\$1,905	\$735	\$977	\$965	\$1,163	\$1,067	\$916	\$853	\$10,921	\$82,760
Storm On-Going Program	\$1,010	\$1,081	\$942	\$519	\$876	\$842	\$1,084	\$1,287	\$935	\$0	\$0	\$7,566	\$10,072
Storm Pumping Facilities	\$958	\$4,829	\$8,692	\$4,161	\$4,126	\$3,732	\$1,417	\$1,579	\$4,948	\$7,642	\$4,957	\$46,083	\$64,227
Stormwater Program Management	\$150	\$173	\$437	\$517	\$476	\$286	\$346	\$275	\$212	\$124	\$395	\$3,243	\$15,178
Stormwater Trunk/Force Sewers	\$42	\$772	\$1,082	\$1,216	\$1,358	\$0	\$0	\$0	\$0	\$0	\$0	\$4,428	\$44,543
	\$2,168	\$7,509	\$12,839	\$8,319	\$7,571	\$5,837	\$3,812	\$4,305	\$7,162	\$8,682	\$6,205	\$72,241	\$216,779
SANITARY SEWER													
Sanitary Collection System	\$1,786	\$4,582	\$25,217	\$58,615	\$60,253	\$61,914	\$54,330	\$54,582	\$56,493	\$57,843	\$58,000	\$491,829	\$728,214
Sanitary On-Going Projects	\$12,724	\$14,096	\$17,352	\$14,667	\$15,091	\$15,542	\$16,020	\$16,500	\$15,297	\$15,289	\$15,756	\$155,610	\$233,439
Sanitary Pumping Facilities	\$361	\$3,085	\$8,434	\$8,813	\$16,171	\$16,011	\$28,020	\$37,639	\$45,222	\$27,375	\$10,231	\$201,000	\$265,049
Sanitary Program Management	\$4,275	\$9,087	\$9,612	\$7,638	\$7,640	\$8,634	\$10,520	\$10,688	\$7,927	\$4,451	\$1,116	\$77,313	\$191,900
Interceptor/Trunk Force Sewers	\$11,909	\$37,182	\$57,842	\$95,377	\$69,410	\$120,816	\$168,845	\$151,593	\$97,201	\$38,289	\$33,811	\$870,364	\$1,309,131
	\$31,056	\$68,031	\$118,457	\$185,109	\$168,564	\$222,916	\$277,735	\$271,002	\$222,140	\$143,246	\$118,914	\$1,796,116	\$2,727,733
WATER													
Water Distribution Systems	\$30,621	\$30,986	\$72,384	\$89,285	\$97,369	\$118,521	\$125,347	\$123,510	\$126,497	\$122,606	\$126,784	\$1,033,289	\$2,102,409
Lead Free DC Program	\$17,917	\$42,477	\$77,504	\$107,944	\$109,838	\$91,370	\$74,797	\$62,971	\$44,771	\$0	\$0	\$611,672	\$816,318
Water On-Going Projects	\$17,316	\$18,280	\$17,292	\$16,825	\$17,779	\$19,351	\$18,915	\$20,691	\$21,601	\$20,879	\$22,623	\$194,235	\$261,206
Water Pumping Facilities	\$1,332	\$5,910	\$10,202	\$7,983	\$7,734	\$6,391	\$7,029	\$4,547	\$2,678	\$2,408	\$2,414	\$57,295	\$95,574
Water Storage Facilities	\$1,682	\$6,447	\$6,811	\$11,754	\$4,438	\$3,834	\$9,658	\$4,997	\$3,536	\$3,328	\$5,096	\$59,899	\$175,104
Water Service Program Management	\$2,448	\$4,809	\$4,179	\$4,716	\$5,120	\$7,542	\$7,080	\$4,641	\$4,641	\$5,120	\$7,563	\$55,412	\$121,424
	\$71,316	\$108,909	\$188,371	\$238,506	\$242,278	\$247,009	\$242,826	\$221,357	\$203,725	\$154,341	\$164,479	\$2,011,801	\$3,572,035
CAPITAL PROJECTS													
	\$309,279	\$386,492	\$538,981	\$722,930	\$776,993	\$795,374	\$828,832	\$777,640	\$613,222	\$443,833	\$380,862	\$6,265,159	\$13,536,789
CAPITAL EQUIPMENT													
	\$21,374	\$47,421	\$30,535	\$31,654	\$31,776	\$34,334	\$34,334	\$34,334	\$34,334	\$34,334	\$34,334	\$347,390	\$347,390
WASHINGTON AQUEDUCT													
	\$14,683	\$67,523	\$35,155	\$29,480	\$29,480	\$29,480	\$29,480	\$29,480	\$29,480	\$29,480	\$29,480	\$338,518	\$338,518
ADDITIONAL CAPITAL PROJECTS													
	\$36,057	\$114,944	\$65,690	\$61,134	\$61,256	\$63,814	\$63,814	\$63,814	\$63,814	\$63,814	\$63,814	\$685,909	\$685,909
LABOR													
													\$404,476
TOTAL CAPITAL BUDGETS													
	\$345,336	\$501,437	\$604,671	\$784,064	\$838,249	\$859,188	\$892,646	\$841,454	\$677,036	\$507,647	\$444,676	\$6,951,067	\$14,627,174

(\$ in thousands)

Prioritization Schedule

The Authority evaluates and prioritizes capital projects based on a specific criteria. These criterias are fundamental in developing a CIP based on demonstrated needs and are set forth in the following table and described below.

Approximately 14 percent of the current CIP ten-year disbursements are for large regulatory mandates which includes the Clean Rivers Project. As we progress closer to the completion of the mandated projects, DC Water is able to increase investments in upgrading its aging water and sewer infrastructure.

MEASURE OF PRIORITY

	1A		2A	2B	2C	2D	3A		3B	
	Mandates		Health & Safety	Board Policy	Potential Failure	High Profile Good Neighbor	Good Engineering High Payback		Good Engineering Lower Payback	
	Agreements, Regulatory standards, Court orders, Issues and Permits requirements, Stipulated Agreements, Etc.		Required to address Public Safety	Undertaken as a result of the Board's commitment to outside agencies	Related to Facilities in danger of failing, or critical to meeting permit requirements	Address Public concerns	Need to fulfill Mission and upgrade Facilities		Lower priority Projects	
FY 2023	\$106,715	21%	\$53,232	\$77,481	\$41,222	\$1,493	\$146,547	29%	\$74,747	\$501,437
FY 2024	\$100,452	17%	\$20,372	\$132,402	\$41,685	\$702	\$192,996	32%	\$116,062	604,671
FY 2025	\$135,645	17%	\$9,954	\$167,859	\$57,100	\$1,842	\$260,642	33%	\$151,021	784,064
FY 2026	\$172,452	21%	\$11,242	\$178,345	\$40,278	\$2,076	\$255,501	30%	\$178,355	838,249
FY 2027	\$136,585	16%	\$12,066	\$180,531	\$37,264	\$3,284	\$297,956	35%	\$191,502	859,188
FY 2028	\$146,829	16%	\$7,326	\$177,995	\$91,761	\$634	\$283,347	32%	\$184,753	892,646
FY 2029	\$132,388	16%	\$18,963	\$146,165	\$50,911	\$0	\$302,947	36%	\$190,080	841,454
FY 2030	\$33,847	5%	\$15,838	\$137,736	\$48,044	\$0	\$248,214	37%	\$193,356	677,036
FY 2031	\$0	0%	\$7,206	\$96,590	\$35,411	\$0	\$171,482	34%	\$196,957	507,647
FY 2032	\$0	0%	\$369	\$93,104	\$26,655	\$0	\$159,660	36%	\$164,889	444,676
Total	\$964,912		\$156,569	\$1,388,208	\$470,332	\$10,030	\$2,319,293		\$1,641,724	\$6,951,067
% of Total	13.9%		2.3%	20.0%	6.8%	0.1%	33.4%		23.6%	

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

FY 2022 Actual	FY 2023 - FY 2032 CIP Disbursement Plan										Lifetime Budget	
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032		10-yr Total
\$ 17,788	\$ 22,104	\$ 24,614	\$ 25,247	\$ 32,462	\$ 24,646	\$ 3,879	\$ 2,293	\$ 2,000	\$ 2,000	\$ 2,000	\$ 141,246	\$ 269,010



Non Process Facilities Sewer Building



Main Pumping Station



Fleet Maintenance Facility

Overview

The Non Process Facilities Service Area accommodates projects approved under the Non Process Facilities Master Plan (NPFMP) and related improvements necessary to support DC Water activities and critical operations. The goals of this service area are the same as those in the NPFMP, which are designed to:

- Optimize equity and wellness for the DC Water non-process facilities working environment.
- Maximize efficient use of existing DC Water land and facilities.
- Introduce state-of-the-art material management technologies that will enhance inventory security, storage, distribution, and transportation.
- Implement green strategies, and sustainable design within DC Water infrastructure and facility planning.
- Maximize flexibility throughout DC Water facilities to support management of future treatment needs, distribution system operations, and innovative opportunities.

PROGRAM AREAS

Facility Land Use – The primary objective of this service area is to implement the Non-Process Facilities Master Plan (NPFMP) and to ensure that we are meeting the wellness and equity needs of our workforce while efficiently maintaining facilities to support our operations. The facility land use budget provides for improvement projects to DC Water’s regularly occupied facilities. These projects directly contribute to the sustainability of DC Water facilities assets as well as the health and well-being of our employees and visitors in DC Water’s office and shop environments. Some of the projects included in this program are:

- **Renovations to Bryant Street Campus** – The 2013 NPFMP required the development of improved spaces for our Water Operations and expanding critical functions through the development of a proper Emergency Operations Center (EOC), while maintaining the Bryant Street Pump Station’s historic character. In addition to efficiently organizing the space vacated by personnel now located at HQO, this project consists of identifying a range of potential tasks, such as structural/building envelope analysis, energy efficiency and resiliency upgrades, improved parking and workspace planning and warehousing that will modernize and improve operations at the Bryant Street campus.
- **Ft Reno Pump Station-Field Ops Facility** – This project will start concept design in FY 2023 to renovate the non-process facilities at the Ft Reno campus to include a new/updated water lab facility, upgrades to the historic watchman’s tower and original pump station building. The project will also focus on improvements to the grounds and security fencing to provide a suitable working environment for DC Water employees and visitors as well as being a good neighbor in recognizing and maintaining the historic character of the campus buildings.
- **Main & O Redevelopment Efforts** – This project relocates Sewer and Fleet Operations from the Main & O Campus in order to accommodate the redevelopment plans for the District of Columbia in and around the Navy Yard. Costs associated with the acquisition of new land and construction of new facilities will be paid by the District of Columbia. The new Sewer Facility at Ames Place achieved occupancy in FY 2022, and the Fleet also achieved occupancy in FY 2023.
- **Renovations to Blue Plains Central Operations Facility** – The 2013 NPFMP called for utilizing the Central Operations Facility as the operations center for Blue Plains as originally intended, consolidating all Engineering staff except Clean Rivers. In addition to efficiently organizing the space vacated by administrative personnel now located at the Headquarters Office, this project consists of identifying a range of potential tasks, such as structural/building envelope analysis, energy efficiency and resiliency upgrades, and improved space planning and document storage that will modernize and improve operations at the facility. The concept design for this project will take place in FY 2023. Procurement of design is planned for FY 2024 with construction scheduled to start in FY 2026.
- **CMF Renovations and Consolidation** – This project will provide for renovation of the existing Blue Plains (SB-1) Supply Building One to allow for consolidation of the Facilities Department in the SB-1 space. This will provide space for consolidation of Wastewater Operations within the Central Maintenance Facility. Design for the SB-1 renovation was completed in FY 2023 Q2. Procurement and start of construction for SB-1 renovation are planned for FY 2024.

- **Floatable Debris Dock Replacement** – The existing docks are more 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. Future improvements include replacement of the docks, replacement of the on-site office facility, addition of solar to the site, updated fencing and lighting to further improve the working environment and efficiencies of skimmer boat operations.
- **Non-Process Heating, Ventilation, and Air Conditioning (HVAC) and Roofing Projects** – This project is meant to holistically address some of the HVAC and roofing/building envelope challenges that exist throughout DC Water facilities. This will include undertaking proper analysis of our needs given the characterization of the space (occupied versus non-occupied for example) and then developing remediation and renovation plans as identified by the assessment. Assessments started in FY 2022 and continue through FY 2023. As phases of assessments are completed, scoping for project design and construction will begin. The phasing of assessments by the Non-Process Program team prioritizes HVAC and roofing projects with immediate needs and beyond will implement an informed, proactive plan that considers the proper lifecycle costs of these assets to ensure that our facilities meet the needs of our operations and workforce.
- **Anacostia Pump Station-Field Ops Facility** – This project provides for planning, design and construction to renovate and repurpose the existing, historic Old Anacostia Pump Station. The existing Old Anacostia Pump Station was abandoned when the new Anacostia Pump Station was built on the same campus. The project will provide concept design in FY 2023, design starting in FY 2024 and construction planned to start in FY 2026. The project will provide a suitable field operations location for DC Water Operations as well as doing our part as a good neighbor to surrounding Ward 8 neighborhood.
- **Main & O Seawall Restoration** – This project provides for planning, design and construction to rebuild the existing seawall to the south of the new headquarters building. Planning and evaluation of the condition of the existing seawall is planned for FY 2023 with design projected to start in FY 2024 and construction start in FY 2025. The project will provide for continued protection by the seawall as well as doing our part as a good neighbor to support improvements to the Anacostia River waterfront area.
- **Main Pump Station Building Modifications** – This project is in place to ensure the historic Main Pump Station will continue to last and humbly represent DC Water’s lasting contributions to Washington DC’s growth and success. This funding will support restoration to the building’s exterior envelope and interior spaces to planning, design and for many years to come. The restoration requires planning, design and construction by historic building specialty companies. In addition to permitting with Department of Buildings (DOB) there will be extensive need for outreach and coordination with the State Historic Preservation Office (SHPO) and the U.S. Commission of Fine Arts (CFA). Concept design for this project will begin in FY 2023 Q2.

- **Solar Projects** – This project provides for planning, design, and construction for solar installations at multiple DC Water campuses. Planning includes Ft Stanton solar project to begin concept design in FY 2023 and solar projects at Bryant Street, Floatable Debris Dock, Fort Reno, Anacostia Pump Station, and Potomac Pump Station in FY 2024 through FY 2027. These projects will enhance the sustainability profile for DC Water and are intended to help support improvement of rates.

ACCOMPLISHMENTS

- The new Non-Process Facilities Program Management (NPFPM) contract was executed in late FY 2021 by McKissack & McKissack, a woman-owned professional design and construction firm. Their team has been working through the learning curve of adjusting as a prime consultant for DC Water. This contract provides for program management, planning, design, and construction management services to support land use/non-process capital projects (ALU). The Facilities Department and NPFPM continue to coordinate with the Department of Engineering and Technical Services on active land use projects while the NPFPM team is getting their arms around the full scope of the Program.
- The new Fleet facility at Walker Mill is expected to achieve occupancy and substantial completion in FY 2023 Q2/Q3 with final completion anticipated in FY 2023. The Fleet Department has vacated the old Fleet Building and moved into the new Fleet Facility in FY 2023. The new Fleet location provides state-of-the-art shop space and well organized, professional new office space to support the critical Fleet Department mission.
- DC Water is in the schematic design/program development phase for the renovations at Bryant Street. Bryant Street planning is advancing with interactions with State Historic Preservation Office (SHPO). Determination of Eligibility for the Distribution Building and the warehouse at 200 Bryant Street has been completed and concept design is moving forward in coordination with the determinations.
- Concept Design for the Floatable Debris Dock Upgrades is complete. Requests for proposals for this Design Build project will be advertised in Q2 of FY 2023.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Non-Process Facilities Program Management (NPFPM) – This program impacts all DC Water workers and visitors by providing a safe, healthy, well and equitable environment for all DC Water support services and operational team home-base locations. The successful execution of the program supports a comfortable and engaged workforce. The comfortable and engaged workforce will be able to carry out the DC Water mission of providing safe, healthy drinking water to the DC area and properly treated wastewater for the District, and surrounding counties in a sustainable working environment. Through this working environment, the Program supports reliable operations and resiliency as emergencies occur.



Non Process Facilities

(\$ in thousands)

FACILITY LAND USE	Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
DS New Headquarters Building	2008	Ongoing	\$131	\$1,464	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,480	\$76,764	2024
DU Water System Laboratory Facilities	2006	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	2021
HE Bryant Street Pump Station Building Mod.	2018	Ongoing	\$0	\$602	\$1,276	\$3,446	\$5,691	\$978	\$0	\$0	\$0	\$0	\$0	\$11,993	\$14,370	2027
HF Fort Reno Pump Station	2020	Ongoing	\$0	\$512	\$3,458	\$887	\$1,120	\$77	\$0	\$0	\$0	\$0	\$0	\$6,054	\$5,850	2027
HH Main & O Redevelopment Efforts	2015	Ongoing	\$15,862	\$9,249	\$233	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,482	\$52,129	2024
HJ Central Operations Facility Renovation	2019	Ongoing	\$488	\$302	\$336	\$2,789	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,428	\$7,214	2025
HK CMF Renovations And Consolidation	2020	Ongoing	\$252	\$299	\$5,403	\$3,489	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,190	\$11,270	2025
NZ Floatable Debris Dock Replacement	2020	Ongoing	\$57	\$242	\$564	\$1,323	\$2,532	\$634	\$0	\$0	\$0	\$0	\$0	\$5,295	\$5,402	2027
RV Non-Process Area - HVAC And Roofing Projects	2020	Ongoing	\$731	\$1,977	\$1,254	\$1,405	\$3,334	\$3,736	\$2,099	\$2,293	\$2,000	\$2,000	\$2,000	\$22,098	\$24,290	2032
SA Anacostia Pump Station - Field Ops East	2022	Ongoing	\$39	\$178	\$963	\$1,905	\$1,485	\$0	\$0	\$0	\$0	\$0	\$0	\$4,532	\$4,500	2026
SB Bryant Street Parking Modifications	2022	Ongoing	\$38	\$121	\$302	\$905	\$2,306	\$273	\$0	\$0	\$0	\$0	\$0	\$3,907	\$4,000	2027
SC Main & O Seawall Restoration (Phase 2 HQO)	2022	Ongoing	\$60	\$626	\$869	\$2,435	\$5,994	\$2,307	\$0	\$0	\$0	\$0	\$0	\$12,232	\$12,394	2027
SD Main PS Building Modifications - Historic Restoration	2022	Ongoing	\$67	\$855	\$115	\$363	\$3,132	\$8,869	\$1,687	\$0	\$0	\$0	\$0	\$15,021	\$15,000	2028
SE Non-Process Facilities Program Management	2022	Ongoing	\$62	\$3,263	\$1,137	\$595	\$499	\$62	\$0	\$0	\$0	\$0	\$0	\$5,557	\$5,334	2027
SF Solar Projects	2023	New	\$0	\$2,194	\$8,245	\$4,998	\$3,633	\$4,977	\$93	\$0	\$0	\$0	\$0	\$24,139	\$23,692	2028
SG Sewer Services Office and Garage Expansion	2023	New	\$0	\$219	\$443	\$708	\$2,735	\$2,732	\$0	\$0	\$0	\$0	\$0	\$6,837	\$6,800	2027
TOTAL FACILITY LAND USE BUDGETS			\$17,788	\$22,104	\$24,614	\$25,247	\$32,462	\$24,646	\$3,879	\$2,293	\$2,000	\$2,000	\$2,000	\$141,246	\$269,010	
TOTAL NON PROCESS FACILITIES BUDGETS			\$17,788	\$22,104	\$24,614	\$25,247	\$32,462	\$24,646	\$3,879	\$2,293	\$2,000	\$2,000	\$2,000	\$141,246	\$269,010	

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

FY 2022 Actual	FY 2023 - FY 2032 CIP Disbursement Plan										Lifetime Budget	
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032		10-yr Total
\$ 69,277	\$ 71,907	\$ 84,442	\$ 117,684	\$ 137,739	\$ 145,555	\$ 143,319	\$ 140,299	\$ 132,166	\$ 123,098	\$ 84,671	\$ 1,180,881	\$ 3,535,160



Blue Plains Filter Influent Pump Install



Blue Plains Gravity Thickener Phase 2



Blue Plains Clarification at Wet Weather Treatment Facility

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 biosolids product. DC Water’s current NPDES permit is effective from August 26, 2018, through August 25, 2023. This permit requires wastewater treatment to a level that meets one of the most stringent NPDES discharge permits in the United States.

Blue Plains Advanced Wastewater Treatment Plant treats an annual average flow of 320 million gallons per day (MGD) and has a design capacity of 384 MGD, with a peak wet weather design capacity to treat more than one billion gallons per day. Wastewater flows in from the District of Columbia, Montgomery and Prince George’s Counties in Maryland, and Fairfax and Loudoun counties in Virginia.

PROGRAM AREAS

Liquids 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 and ultimately discharge the treated effluents 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 beneficial reuse of biosolids. 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 nitrogen removal processes, pre-dewatering of blended thickened solids by centrifuge, pretreatment of solids by thermal hydrolysis, anaerobic digestion, and final dewatering of Class A biosolids by belt filter press.

Enhanced Nitrogen Removal Facilities – Provides facilities and upgrades to existing facilities needed at Blue Plains to meet the total nitrogen discharge limit assigned to DC Water. In addition to expansion of existing nitrification and denitrification processes, this program includes a new wet weather treatment facility that simultaneously treats combined stored sewage and reduces the peak flow through the biological treatment system. The necessary facilities to meet the current NPDES permit are in operation. An expansion will be required in the future to treat future increased influent loads to the Plant.

ACCOMPLISHMENTS

- Closeout of Filtrate Treatment Facility Contract - 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 of the TN/WW are the Nitrogen Removal Facilities (Project E9), which entails a new or expanded nitrogen removal process to lower the concentration of total nitrogen in the Blue Plains effluent to 3 mg/l.
- Closeout of Tunnel Dewatering Pump Station and Enhanced Clarification Facility Contract – The Tunnel Dewatering Pump Station (TDPS) 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 plant during and after a rain event. 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.
- Substantial completion of Raw Wastewater Pumping Station 2 (RWWPS2) – The pump station delivers wastewater from the wastewater collection system to the east preliminary treatment processes at Blue Plains. This project updated aging electrical equipment, both replacing equipment that is beyond its useful life and relocating sensitive electronic equipment to a less corrosive environment to reduce the rate of deterioration of the equipment. All nine (9) pumps in this station have been rehabilitated and placed in service.
- Completion of construction to replace thirteen (13) influent screens – This equipment screens all the wastewater influent to Blue Plains and removes rags and objects upstream of critical treatment processes protecting equipment and performance effectiveness. All thirteen (13) screens have been upgraded.
- Completion of Transfer Trip and Stuck Breaker Electrical Upgrades Project - This project implements a transfer trip scheme between PEPCO and the 69 kV primary circuit breakers at the Main Substation.

ACCOMPLISHMENTS CONTINUED

- Completed West Grit Chamber Effluent Structures Rehab under Miscellaneous Facilities Upgrades (MFU) Phase 6 Contract - These structures are subject to aggressive operating environments, which makes them vulnerable to accelerated deterioration. Failure of these structures could significantly impact treatment operations and/or pose public health and safety risks. The video inspections and non-invasive structural condition assessment of accessible surfaces were performed to observe the current conditions of the structures and the general extent and severity of deterioration during a rare shutdown of the West Primary Treatment Facility. Design was separated out from Headworks Influent Structures and Effluent Structures Rehabilitation (Project BC) for fast-track implementation.
- Ongoing construction for replacement of Filter Influent Pumps 1-10 – These pumps deliver nitrified and denitrified effluent to the filtration process at Blue Plains, which removes solids and phosphorus to meet permit limits. All ten (10) pumps have been upgraded.
- Ongoing construction for Gravity Thickener Upgrades – This project includes upgrading ten (10) gravity thickeners as well as the primary sludge de-gritting systems and associated electrical and instrumentation and control systems. All ten (10) gravity thickeners have been upgraded and placed in service. Primary sludge screening and de-gritting building is currently under operational demonstration.
- Ongoing construction for the Reclaimed Final Effluent Pump Station Upgrade – The Reclaimed Final Effluent (RFE) pump system is the source of water for the Process Service Water system (PSW) at Blue Plains. The project upgrades equipment for reliability as well as increasing capacity to meet the demand of facilities that have been added to the wastewater treatment plant in recent years. Ongoing construction under the Miscellaneous Facilities Upgrades Phase 7 project – This project commenced critical rehabilitation to the Filtration filter basins, concrete replacements throughout Blue Plains facility, and Steam line replacement serving Operational facilities.
- Ongoing design for Headworks Influent and Effluent Structural Rehabilitation – The final design for this project is underway. This project includes rehabilitation of the East Influent Sewer feeding Raw Wastewater Pump Station-1 is needed downstream due to the recent improvements done under the Blue Plains Influent Sewers Rehabilitation (BPISR) Contract. Rehabilitation within Blue Plains is needed for the East and West Outfall Relief Sewers feeding the East Process Screens Facility (EPSF) and Raw Wastewater Pump Station-2 (RWWPS-2) within Blue Plains.
- Ongoing design for Central Office Facilities/Information Technology Electrical Switchgear Upgrades – The final design for this project is underway. This project will upgrade the electrical distribution systems and miscellaneous improvements in the Central Operations Facility and Information Technology facility as required. This project replaces the unit substation, installed 1976, equipment in Central Operations Facility and changes the AC power feeder point for the Information Technology (IT) building.

ACCOMPLISHMENTS CONTINUED

- Ongoing design for Headworks Electrical Upgrades – The design for this project is underway. It includes HVAC improvements, miscellaneous concrete restorations, unit sub-stations 2 and 4 relocation and replacement, lightning protection improvements, Process Control System (PCS) improvements, relocation of disconnect switches and actuator replacements, grit bridge rehabilitation and upgrades, replacement of electrical control panels, combustible gas monitoring and plantwide alarm additions, camera replacements and PLC upgrades.
- Ongoing design for Pre-dewatering Centrifuges – The final design is underway. The equipment pre-selection for the centrifuges has been completed. This project restores to the biosolids program the last 2 of 12 planned pre-dewatering centrifuges (3 centrifuges each of the 4 Cambi trains) and connections to associated feed pumps, polymer pumps, solids chutes and odor control connections at the Main Process Train (MPT) pre-dewatering building.
- Ongoing design for Filter underdrain and Backwash System upgrades – The final design for this project is underway. This project includes the following -
 - Concrete restoration for the filter and gullet walls and the flume channels and conduits
 - Filter Underdrain system, which includes the underdrain, support gravel (if required), media, and air scour system, all of which are contained in the filter box.
 - Wash water system, including pumps, flow rate control meter and valves, and pressure reducing valves.
 - Air scour system, including blowers, discharge valves, and G&H valves which are shut-off valves for the north and south half of each filter, respectively.
 - Electrical system upgrades needed for the new mechanical equipment and to update the existing power distribution system, including the time synchronization system for all existing protective relays and Power Monitoring Transmitters (PMTs)
 - I&C system upgrades needed for the new mechanical equipment.
 - Demo and removal of obsolete, miscellaneous electrical and instrumentation
- Ongoing design for Biosolids Curing Pad – The final design for this project is underway. This project includes the design and construction of a Concrete Curing Facility located to the north of the biosolids blending facility for DC Water’s exceptional quality Class A biosolids branded as Bloom™.
- Continued planning for Blue Plains Micro-Grid/Electrical Power Monitoring and Control – Planning for Micro-Grid is underway. This project includes the implementation of an electrical power system management platform to manage the complex electrical power distribution and co-generation system Combined Heat and Power (CHP) Facility, and future Solar Power generation at the Blue Plains Advanced Wastewater Treatment Plant (AWTP).
- Ongoing planning for Blue Plains Floodwall Segments A, B, D – The design-build RFQ and RFP for this project are being finalized. Awaiting award of \$20M FEMA grant to partially fund this project. The project includes construction of a wall to prevent flooding of the DC Water Blue Plains Advanced Wastewater Treatment Plant (AWTP) 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.

- Ongoing planning for Upgrades to the Primary Treatment Facility – The planning for the 20-year replacement project is underway. It includes rehabilitation and upgrade of primary treatment facilities, specifically collector mechanisms and general facility upgrades.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Liquid Processing Program – Projects in this program enable DC Water to continue to produce excellent quality effluent into the Potomac River and meet NPDES permit requirements. Completion of RWWPS2 Upgrade improved system reliability and increased redundancy and has extended the useful life of assets in the station.

Plantwide Projects Program – Significant projects in this program upgrade the power distribution system at Blue Plains. These include investments in power monitoring and controls with a goal to establish a microgrid. This new equipment will be used to optimize the distributed energy system, which includes an on-site solar generation and a combined heat and power plant.

Plantwide Projects Program – Significant projects in this program upgrade the power distribution system at Blue Plains. These include investments in power monitoring and controls with a goal to establish a microgrid. This new equipment will be used to optimize the distributed energy system, which includes an on-site solar generation and a combined heat and power plant.



Wastewater Treatment

summary overview financial plan rates&rev

capital

financing departmental glossary

(\$ in thousands)

LIQUID PROCESSING		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
A2	Liquid Processing Program Management	2001	Ongoing	\$1,188	\$7,785	\$3,715	\$3,892	\$7,613	\$10,290	\$10,528	\$10,483	\$5,639	\$3,899	\$349	\$64,192	84,027	2035
B6	Primary Sedimentation Tank Covers	2026	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$581	\$1,766	\$132	\$2,690	\$5,169	43,598	2032
B7	Primary Sedimentation Tank Odor Scrubblers	2028	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,290	\$816	\$2,105	45,870	2032
BC	Headworks Influent Structures	2017	Ongoing	\$1,321	\$536	\$836	\$4,602	\$6,190	\$2,741	\$0	\$0	\$0	\$0	\$0	\$14,904	19,323	2027
BQ	Grit and Screenings and Primary	2018	Ongoing	\$1,224	\$1,293	\$2,118	\$12,716	\$20,427	\$6,645	\$0	\$0	\$0	\$0	\$0	\$43,199	55,698	2027
BR	Nitrification/Denitrification Facility	2006	Ongoing	\$0	\$672	\$912	\$296	\$171	\$42	\$0	\$0	\$0	\$0	\$0	\$2,094	54,803	2027
BT	Filtration/Disinfection Facility Phase II	2008	Ongoing	\$0	\$14	\$0	\$604	\$1,450	\$320	\$0	\$0	\$0	\$0	\$0	\$2,388	24,018	2027
BV	Raw Wastewater Pump Station No. 2 Upgrades	2013	Ongoing	\$2,661	\$341	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$341	46,898	2023
I4	Grit Removal Facilities - 20 Year Rebuild	2031	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,070	\$8,394	\$10,464	52,500	2033
I5	Raw Water Pump Stations I & 2 - 20 Year Rebuild	2024	Ongoing	\$0	\$0	\$0	\$541	\$918	\$3,859	\$9,770	\$6,310	\$0	\$0	\$0	\$21,398	29,000	2029
I7	Primary Treatment - 20 Year Rebuild	2023	Ongoing	\$0	\$0	\$333	\$732	\$2,858	\$2,049	\$11,406	\$11,427	\$10,583	\$5,400	\$0	\$44,787	54,600	2031
IY	Effluent Filter Upgrade	2017	Ongoing	\$3,945	\$17,877	\$10,065	\$8,733	\$16,910	\$24,430	\$18,872	\$12,948	\$5,826	\$8,110	\$7,969	\$131,740	169,842	2032
IZ	Replace/Upgrade Influent Screens	2016	Ongoing	\$6,559	\$3,304	\$0	\$0	\$0	\$234	\$2,451	\$2,038	\$4,513	\$17,824	\$19,765	\$50,128	81,490	2033
J2	Replace/Upgrade Primary Treatment Mechanisms	2018	Ongoing	\$209	\$2,878	\$4,027	\$3,869	\$4,337	\$3,259	\$839	\$0	\$0	\$0	\$0	\$19,209	29,190	2028
J6	Deammonification Project	2013	Ongoing	\$0	\$0	\$329	\$2,538	\$682	\$0	\$0	\$0	\$0	\$0	\$0	\$3,549	3,848	2026
JC	Secondary East and West - 20 Year Rebuild	2027	Ongoing	\$0	\$0	\$0	\$0	\$0	\$399	\$2,664	\$23,536	\$20,012	\$10,274	\$12,688	\$69,573	96,000	2034
LF	Nitrification Reactor/Sedimentation - 20 Year Rebuild	2023	Ongoing	\$0	\$0	\$513	\$1,595	\$7,838	\$9,460	\$201	\$0	\$0	\$2,930	\$7,445	\$29,982	139,980	2035
OZ	Grit Chambers I & 2 Upgrades	2017	Ongoing	\$42	\$0	\$0	\$2	\$423	\$533	\$3,754	\$4,289	\$27	\$0	\$0	\$9,029	15,130	2030
PD	Secondary East & West Upgrades	2016	Ongoing	\$0	\$0	\$0	\$0	\$214	\$541	\$2,290	\$4,112	\$161	\$0	\$0	\$7,318	9,685	2030
PE	Nitrification Reactor/Sedimentation Upgrades	2017	Ongoing	\$553	\$2,264	\$5,227	\$4,717	\$321	\$0	\$0	\$0	\$0	\$0	\$0	\$12,529	15,607	2026
RN	Liquids Processing Rehabilitation	2020	Ongoing	\$0	\$0	\$586	\$2,357	\$9,094	\$7,353	\$496	\$0	\$0	\$0	\$0	\$19,886	23,321	2028
RW	Long-term Concrete Rehabilitation Projects	2026	Ongoing	\$0	\$0	\$0	\$0	\$1,183	\$2,838	\$14,218	\$13,797	\$11,164	\$9,900	\$0	\$53,100	62,820	2031
UC	Filtration/Disinfection Facility	2000	Ongoing	\$9,399	\$4,086	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,086	96,786	2023
UF	Dual Purpose Sed Area Facilities 20yr Upgrade	2033	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	13,165	2033
UJ	FIP Wall Pipe Replacement	2024	New	\$0	\$0	\$316	\$534	\$2,678	\$567	\$0	\$0	\$0	\$0	\$0	\$4,095	4,884	2027
TOTAL LIQUID PROCESSING BUDGETS				\$27,103	\$41,050	\$28,977	\$47,726	\$83,307	\$75,562	\$77,488	\$89,520	\$59,692	\$61,829	\$60,116	\$625,266	\$1,272,081	



Wastewater Treatment

summary overview financial plan rates&rev

capital

financing departmental glossary

(\$ in thousands)

PLANTWIDE	Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
AL Plantwide Project Program Management	2001	Ongoing	\$4,245	\$2,877	\$6,148	\$4,305	\$3,078	\$2,113	\$2,119	\$2,621	\$2,547	\$2,159	\$0	\$27,968	\$65,973	2031
BY Additional Chemical Systems Phase III	2024	Ongoing	\$0	\$0	\$0	\$116	\$105	\$826	\$1,708	\$348	\$0	\$0	\$0	\$3,102	\$3,822	2029
CH Miscellaneous Facility Projects	2004	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,039	2022
CV Laboratory Upgrades	2006	Ongoing	\$147	\$456	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$456	\$9,291	2023
CW Security at Blue Plains	2005	Ongoing	\$396	\$434	\$559	\$93	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,086	\$6,617	2025
EI Plantwide Painting of Steel Pipes	2012	Ongoing	\$0	\$0	\$1,008	\$3,397	\$1,022	\$0	\$0	\$0	\$0	\$0	\$0	\$5,427	\$5,570	2026
GP Instrumentation & Control & Electric Program Management	2009	Ongoing	\$1,041	\$396	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$396	\$6,373	2023
GW Control Systems Replacement	2022	Ongoing	\$0	\$0	\$526	\$241	\$958	\$1,085	\$3,976	\$10,258	\$8,946	\$4,830	\$152	\$30,972	\$37,000	2032
HL DWT - Process and Operations Jobs	2011	Ongoing	\$1,010	\$305	\$640	\$575	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,520	\$9,213	2025
IC Electrical Monitoring Systems	2015	Ongoing	\$0	\$725	\$974	\$207	\$5,291	\$11,934	\$2,904	\$0	\$0	\$0	\$0	\$22,034	\$26,130	2028
IT Hauled Waste Receiving Facility	2020	Ongoing	\$0	\$0	\$101	\$168	\$1,346	\$1,936	\$0	\$0	\$0	\$0	\$0	\$3,551	\$5,000	2027
IU Solar Photovoltaic System	2020	Ongoing	\$47	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9	\$960	2023
IV Blue Plains IT Backbone Fibre-Optic Cables Tubes	2016	Ongoing	\$0	\$190	\$1,962	\$1,108	\$14	\$0	\$0	\$0	\$0	\$0	\$0	\$3,273	\$5,899	2026
JF Construction of Flood Seawall	2019	Ongoing	\$271	\$51	\$7,091	\$12,067	\$6,650	\$1,966	\$0	\$0	\$0	\$0	\$0	\$27,825	\$36,564	2027
LS Miscellaneous Facility Projects FY 2013	2013	Ongoing	\$256	\$689	\$621	\$645	\$581	\$581	\$511	\$307	\$78	\$0	\$0	\$4,014	\$17,582	2030
LX Process Control System Upgrade	2021	Ongoing	\$552	\$1,219	\$2,092	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,311	\$4,000	2024
OD Plantwide Paving	2015	Ongoing	\$0	\$0	\$24	\$680	\$594	\$162	\$2,805	\$1,605	\$0	\$0	\$0	\$5,870	\$8,240	2029
OE Plantwide Drainage & Runoff	2016	Ongoing	\$95	\$942	\$7,538	\$5,875	\$2,074	\$0	\$0	\$0	\$0	\$0	\$0	\$16,428	\$19,112	2026
OG City Water & Sewer Upgrades at Wastewater Treatment Plant	2022	Ongoing	\$0	\$0	\$36	\$679	\$421	\$0	\$0	\$0	\$0	\$0	\$0	\$1,136	\$1,403	2026
OH Plantwide Demolition	2026	Ongoing	\$0	\$0	\$0	\$84	\$2,320	\$3,054	\$1,299	\$0	\$1,596	\$1,502	\$143	\$9,998	\$11,100	2032
OP Plantwide Sump Pump Rehabilitation	2020	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	2022
OQ Plantwide Roofing Upgrades	2022	Ongoing	\$0	\$454	\$300	\$636	\$3,671	\$4,032	\$0	\$0	\$0	\$0	\$0	\$9,093	\$10,000	2027
OS Plantwide Lighting Upgrades	2017	Ongoing	\$0	\$484	\$129	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$613	\$3,723	2024
PF Chemical System/Building Upgrades	2015	Ongoing	\$0	\$686	\$617	\$2,103	\$2,584	\$5,585	\$3,417	\$174	\$0	\$0	\$0	\$15,166	\$26,660	2029
TZ Electric Power System - Power Gear	2001	Ongoing	\$410	\$2,424	\$1,378	\$10,378	\$5,512	\$9,584	\$12,755	\$3,172	\$0	\$0	\$0	\$45,203	\$71,666	2029
U2 Wastewater Thermal Energy	2020	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$397	\$899	\$2,222	\$2,845	\$0	\$6,363	\$18,430	2032
US Main Substation Hardening	2024	New	\$0	\$0	\$20	\$507	\$411	\$3,010	\$3,514	\$67	\$0	\$0	\$0	\$7,530	\$9,279	2029
VI MFU8 - Rehabilitation and Emergency Response VIII	2023	Ongoing	\$0	\$1,412	\$4,905	\$3,405	\$366	\$311	\$0	\$0	\$0	\$0	\$0	\$10,399	\$10,280	2027
V2 MFU9 - Rehabilitation and Emergency Response IX	2023	Ongoing	\$0	\$270	\$1,830	\$2,444	\$2,203	\$2,161	\$872	\$0	\$0	\$0	\$0	\$9,780	\$10,280	2028
V3 MFU10 - Rehabilitation and Emergency Response - Plantwide X	2023	Ongoing	\$0	\$205	\$1,233	\$1,224	\$1,097	\$1,098	\$66	\$0	\$0	\$0	\$0	\$4,923	\$5,120	2028
YD Miscellaneous Projects	1999	Ongoing	\$260	\$366	\$107	\$302	\$612	\$745	\$447	\$274	\$0	\$0	\$0	\$2,852	\$51,630	2029
XP Efficiency Improvements	2029	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$3,150	\$6,165	\$6,165	\$6,030	\$0	\$21,510	\$25,000	2031
TOTAL PLANTWIDE BUDGETS			\$8,732	\$14,596	\$39,838	\$51,239	\$40,909	\$50,182	\$39,544	\$25,388	\$20,231	\$16,742	\$3,140	\$301,809	\$530,955	



Wastewater Treatment

summary overview financial plan rates&rev

capital

financing departmental glossary

(\$ in thousands)

SOLIDS PROCESSING		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
AM	Solids Processing Program Management	2001	Ongoing	\$2,715	\$611	\$630	\$1,481	\$1,743	\$1,682	\$1,526	\$1,700	\$2,206	\$1,668	\$311	\$13,557	\$26,630	2035
BX	Gravity Thickener Upgrades Phase II	2010	Ongoing	\$23,493	\$10,119	\$4,803	\$84	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,005	\$83,993	2025
EV	Area Substation No. 6	2008	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,106	2022
I3	Biosolids Blending Development Center	2015	Ongoing	\$134	\$750	\$4,969	\$5,087	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,805	\$12,093	2025
LD	Pre-Dewatering Additional Centrifuges	2020	Ongoing	\$108	\$314	\$312	\$2,455	\$4,405	\$866	\$0	\$0	\$0	\$0	\$0	\$8,352	\$10,051	2027
LE	High Strength Waste Receiving Facility (Includes Fats, Oils & Grease)	2026	Ongoing	\$0	\$0	\$0	\$0	\$111	\$318	\$1,614	\$2,708	\$0	\$0	\$0	\$4,752	\$6,008	2029
RM	Biosolids Rehabilitation	2021	Ongoing	\$0	\$0	\$404	\$1,182	\$1,293	\$1,659	\$4,818	\$2,834	\$18,909	\$23,321	\$11,325	\$65,744	\$79,996	2033
TH	THP/Digestion Facilities 20 yr Upgrade	2033	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34,084	2036
XA	New Digestion Facilities	1999	Ongoing	\$85	\$0	\$63	\$456	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$536	\$552,905	2026
XD	Rehabilitation of Dewatered Sludge Loading Facility	2024	New	\$0	\$0	\$917	\$1,735	\$2,288	\$11,518	\$9,830	\$1,379	\$0	\$0	\$0	\$27,666	\$31,700	2029
XZ	Solids Processing Building / Dewatered Sludge Loading Facility	1999	Ongoing	\$465	\$941	\$1,096	\$3,670	\$1,934	\$432	\$0	\$0	\$0	\$0	\$0	\$8,074	\$25,357	2027
XY	Process Control & Computer Sys	2028	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$7,019	\$9,350	\$9,350	\$9,350	\$9,375	\$44,443	\$54,000	2033
V4	MFU10 - Rehabilitation and Emergency Response - Biosolids X	2023	Ongoing	\$0	\$205	\$1,233	\$1,224	\$1,097	\$1,098	\$66	\$0	\$0	\$0	\$0	\$4,923	\$5,120	2028
TOTAL SOLIDS PROCESSING BUDGETS				\$26,999	\$12,939	\$14,427	\$17,374	\$12,887	\$17,573	\$24,873	\$17,971	\$30,464	\$34,339	\$21,011	\$203,857	\$944,041	
ENHANCED NITROGEN REMOVAL		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
BI	Enhanced Nitrogen Removal (ENR) North	2008	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$77,086	2022
E8	Enhanced Clarification Facilities	2009	Ongoing	\$5,078	\$1,386	\$1,201	\$1,346	\$637	\$54	\$0	\$0	\$0	\$0	\$0	\$4,623	\$180,487	2027
E9	Nitrogen Removal Facilities	2008	Ongoing	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$272,998	2022
EE	Filtrate Treatment Facilities	2009	Ongoing	\$41	\$641	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$641	\$108,294	2023
FG	Secondary Treatment Upgrades for Total Nitrogen	2013	Ongoing	\$291	\$223	\$0	\$0	\$0	\$2,184	\$1,414	\$7,420	\$21,779	\$10,188	\$405	\$43,612	\$57,168	2032
FR	Blue Plains Tunnel Dewatering Pumping Station	2010	Ongoing	\$1,011	\$228	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$228	\$35,657	2023
FS	Bolling Overflow & Diversion	2010	Ongoing	\$0	\$844	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$844	\$56,391	2023
TOTAL ENHANCED NITROGEN REMOVAL BUDGETS				\$6,443	\$3,322	\$1,201	\$1,346	\$637	\$2,238	\$1,414	\$7,420	\$21,779	\$10,188	\$405	\$49,949	\$788,082	
TOTAL WASTEWATER TREATMENT BUDGETS				\$69,277	\$71,907	\$84,442	\$117,684	\$137,739	\$145,555	\$143,319	\$140,299	\$132,166	\$123,098	\$84,671	\$1,180,881	\$3,535,160	

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

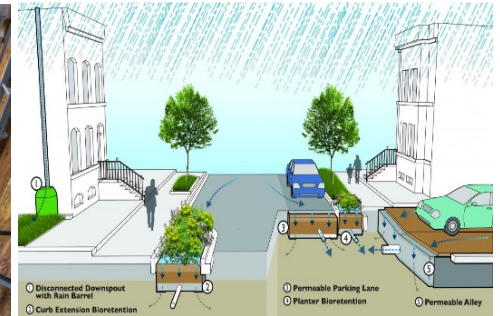
FY 2022 Actual	FY 2023 - FY 2032 CIP Disbursement Plan										Lifetime Budget	
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-yr Total	
\$ 117,675	\$ 108,031	\$ 110,256	\$ 148,064	\$ 188,379	\$ 149,410	\$ 157,261	\$ 138,385	\$ 46,029	\$ 12,465	\$ 4,593	\$ 1,062,875	\$ 3,216,072



DCCR NEBT B Street



DDCR Mt Olivet Road Approach Channel



Rock Creek Project B Green Infrastructure

Overview

Similar to more than 700 older communities primarily 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. Combined sewers convey both stormwater runoff and sanitary sewage from homes and businesses in a single pipe. In dry weather, the system delivers wastewater to the Blue Plains Advanced Wastewater Treatment Plant. In wet weather, stormwater runoff 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 to prevent surface flooding and basement backups. This discharge is called Combined Sewer Overflow (CSO). Approximately one-third of the system is combined, mostly in the downtown and older parts of the city. There are 48 potentially active CSO outfalls in the District.

DC Water has made substantial progress in the implementation of its CSO Long Term Control Plan (LTCP), called the DC Clean Rivers Project, to reduce CSOs that discharge to the Anacostia and Potomac Rivers, as well as Rock Creek. The first phase of the Anacostia River tunnel system was completed and all structures south of Robert F. Kennedy (RFK) stadium placed into operation as of March 2018. From March 20, 2018, through February 28, 2023, the system has performed exceptionally well, capturing over 14.8 billion gallons of CSO and removing more than 9,267 tons of trash and debris, preventing it from being discharged to the Anacostia River.

DC Water continues to implement the remaining project for the Anacostia River (currently under construction), as well as future projects for the Potomac River (currently under construction and procurement) and Rock Creek (currently under construction and planning). When fully implemented, CSOs will be reduced by a projected 96 percent city-wide during an average year (98 percent on the Anacostia River), resulting in improved water quality and significantly reducing debris in our nation’s capital waterways.

PROGRAM AREAS

DC Clean Rivers – The plan includes a variety of improvements throughout portions of the District served by combined sewers, including a series of massive tunnels and diversion facilities to control CSOs and relieve surface flooding, and a tunnel dewatering pumping station and wet weather treatment facility at Blue Plains. The controls for the Anacostia River are scheduled to be complete by 2023, ahead of the 2025 Consent Decree deadline. The Potomac River and Rock Creek controls are scheduled to be complete in 2030. The Potomac River controls include the Potomac Tunnel, which is currently in procurement phase for a Design Builder and CSO 025/026 sewer separation is under construction. The Rock Creek controls include a hybrid mix of green infrastructure (GI) and gray storage optimizing the benefits provided by each technology. The hybrid approach comprises constructing GI to manage 92 impervious acres and a 4.2-million-gallon storage facility to control CSO 049 overflows in Piney Branch.

Program Management – The CSO Program Manager is responsible for evaluation of combined sewer systems, as well as management for sewer pumping station replacement and other sewer infrastructure projects.

Combined Sewer – Projects within the Combined Sewer Program Area include rehabilitation and/or relocation of combined sewers and upgrades to pumping stations. Most projects in this Program Area include planned upgrades to facilities based on our facilities plan.

ACCOMPLISHMENTS

- DC Water's tunnel boring machine completed mining the five-mile-long Northeast Boundary Tunnel (NEBT). Work on the shaft and diversion sites is ongoing and the tunnel is planned to be placed in operation in 2023.
- Completed 100% Request for Proposal (RFP) documents for the Potomac River Tunnel Contract B—Tunnel System Construction Project. The Potomac River Tunnel design-build contract is scheduled to be awarded in late 2023 and the tunnel will be placed in operation by the Consent Decree deadline of February 8, 2030.
- The Advance Utility Construction contract to provide electrical services and relocate utilities in advance of the Potomac River Tunnel construction was awarded on August 25, 2021, and construction is underway.
- Construction is underway for separation of CSO 025/026 which is scheduled for completion in March 2023.
- For Rock Creek Green Infrastructure, the construction contract for the second Rock Creek project (RC-B) was awarded on December 1, 2021, and construction is underway.
- Continued the deployment of Clean Rivers' assets into DC Water's enterprise asset management system.
- Continued the coordination of preventive maintenance of Clean Rivers assets.

ACCOMPLISHMENTS CONTINUED

- Continued maintenance of the Green Infrastructure facilities.
- Began National Environmental Policy Act (NEPA) Studies for Rock Creek CSO control facilities.
- Complied with regulatory requirements to implement project per specified schedule.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

DC Clean Rivers – This project aims to control CSOs to the Anacostia and Potomac Rivers and Rock Creek to meet the District’s water quality standards, while improving the health of the Chesapeake Bay and addressing flooding in Northeast Boundary. This ongoing project includes green infrastructure initiatives that will divert stormwater runoff prior to entering the sewer system. The first portion of the Anacostia River Tunnel System, between Blue Plains and CSO 019 area is complete. All structures south of RFK Stadium have been in operation since March 20, 2018. As of February 2023, the first portion of the Anacostia River Tunnel system had captured approximately 14.8 billion gallons of combined sewer overflows and 9,343 tons of trash, debris, and other solids. The system is achieving nearly 92% CSO capture rate, exceeding the projected 80% capture rate at this stage of implementation. The tunnel system will improve operational flexibility by providing alternate means of transferring flow to Blue Plains, thereby allowing temporary diversion of flows to the tunnel to facilitate operation, maintenance, and rehabilitation throughout the combined sewer system.



Combined Sewer Overflow

summary overview financial plan rates&rev

capital

financing departmental glossary

(\$ in thousands)

Combined Sewer Overflow

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

DC CLEAN RIVERS			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion	
Start	Status																
CY	Anacostia Long Term Control Plan Projects	2005	Ongoing	\$83,317	\$76,471	\$1,334	\$907	\$795	\$560	\$462	\$432	\$429	\$0	\$0	\$81,390	\$1,927,896	2030
CZ	Potomac Long Term Control Plan Projects	2010	Ongoing	\$26,750	\$17,703	\$84,509	\$120,364	\$151,723	\$125,932	\$128,206	\$89,961	\$21,645	\$0	\$0	\$740,043	\$860,727	2030
DZ	Rock Creek CSS LTCP Project	2010	Ongoing	\$6,032	\$10,384	\$14,487	\$14,348	\$19,934	\$10,093	\$18,161	\$41,995	\$11,773	\$0	\$0	\$141,174	\$203,734	2030
TOTAL DC CLEAN RIVERS BUDGETS				\$116,099	\$104,558	\$100,329	\$135,619	\$172,452	\$136,585	\$146,829	\$132,388	\$33,847	\$0	\$0	\$962,607	\$2,992,358	
COMBINED SEWER			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion	
Start	Status																
BA	DC Water Low Impact Development Projects	2002	Ongoing	\$10	\$170	\$122	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$318	\$2,870	2025	
EJ	Potomac Pumping Station - Phase III Rehabilitation	2010	Ongoing	\$754	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18	\$36,098	2023	
EK	Long Term Rehabilitation - Main & O Pump Station	2021	Ongoing	\$0	\$144	\$362	\$1,208	\$1,413	\$9,022	\$10,388	\$5,947	\$12,131	\$12,417	\$4,554	\$57,585	\$78,725	2032
EQ	Potomac Pumping Station-Phase IV Rehabilitation	2020	Ongoing	\$0	\$41	\$166	\$451	\$469	\$190	\$0	\$0	\$0	\$0	\$1,316	\$2,616	2027	
FQ	Main & O Street PS Intermediate Upgrade	2010	Ongoing	\$812	\$2,543	\$6,972	\$431	\$0	\$0	\$0	\$0	\$0	\$0	\$9,947	\$37,419	2025	
FX	Rehabilitation Northeast Boundary Sewer - Phase I	2015	Ongoing	\$0	\$8	\$6	\$15	\$29	\$44	\$44	\$51	\$51	\$48	\$39	\$336	\$4,628	2032
FZ	Tiber Creek Sewer Lining - Phase I	2016	Ongoing	\$0	\$0	\$0	\$947	\$2	\$0	\$0	\$0	\$0	\$0	\$950	\$1,000	2026	
G7	Combined Sewers Under Buildings	2009	Ongoing	\$0	\$203	\$487	\$1,712	\$7,756	\$891	\$0	\$0	\$0	\$0	\$11,050	\$21,885	2027	
IH	Combined Sewer Rehabilitation 2	2013	Ongoing	\$0	\$122	\$853	\$2,250	\$6,246	\$2,678	\$0	\$0	\$0	\$0	\$12,149	\$31,798	2027	
OB	FY 2024 - Inflatable Dams Replacement	2022	Ongoing	\$0	\$223	\$958	\$5,404	\$12	\$0	\$0	\$0	\$0	\$0	\$6,598	\$6,675	2026	
TOTAL COMBINED SEWER BUDGETS				\$1,576	\$3,473	\$9,927	\$12,445	\$15,927	\$12,825	\$10,432	\$5,997	\$12,182	\$12,465	\$4,593	\$100,267	\$223,714	
TOTAL COMBINED SEWER OVERFLOW BUDGETS				\$117,675	\$108,031	\$110,256	\$148,064	\$188,379	\$149,410	\$157,261	\$138,385	\$46,029	\$12,465	\$4,593	\$1,062,875	\$3,216,072	

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

FY 2022 Actual	FY 2023 - FY 2032 CIP Disbursement Plan											Lifetime Budget
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-yr Total	
\$ 2,168	\$ 7,509	\$ 12,839	\$ 8,319	\$ 7,571	\$ 5,837	\$ 3,812	\$ 4,305	\$ 7,162	\$ 8,682	\$ 6,205	\$ 72,241	\$ 216,779



City Street Catch Basin



Stormwater Overflow Control Room



Stormwater Catch Basin

Overview

Stormwater runoff occurs when precipitation travels as surface water rather than evaporating back into the atmosphere or absorbing into the ground. The District is required to meet certain regulatory requirements in managing its separate stormwater system under the District’s Municipal Separate Storm Sewer System (MS4) permit issued by the federal government.

The stormwater system has approximately 580 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 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. DC Water owns, maintains, and operates 16 stormwater pumping stations that serve underpasses through the District.

PROGRAM AREAS

Local Drainage – This category includes several projects for investigation, design, and rehabilitation of local sewers to relieve local flooding and to address short term needs for improvements to storm sewers located in the separate and combined sewer areas.

On-Going – These include storm sewer rehabilitation projects carried out by DC Water’s Department of Pumping and Sewer Operations. These annual projects also provide funding to assist in immediate storm sewer construction to alleviate flooding.

Pumping Facilities – DC Water’s 16 stormwater pump stations serve critical areas of the District and are integral to maintaining the road network where roadway stormwater runoff that does not drain without the assistance of mechanical means. DC Water has projects to upgrade these stormwater pump stations by replacing aging equipment and improving reliability and safety and addressing code compliance issues.

Program Management – Provides engineering program management services for the stormwater service area capital projects and required technical assessments and hydraulic studies required to assess problems in the stormwater system. It also provides engineering services for condition assessment of the storm sewer system.

Interceptor Trunk/Force Sewers – Provides design and construction services for stormwater 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 program area to remediate system problems.

ACCOMPLISHMENTS

- Construction continued for the rehabilitation and improvement of the Watts Branch Storm Sewer Phase 3.
- Construction contracts were awarded for several stormwater pump stations, including 1st and D Stormwater Pump Station, Kenilworth Stormwater Pump Station, 12th and Maine Street SW Stormwater Pump Station, and Portland Street Stormwater Pump Station.
- SCADA control system upgrades are planned for all 16 stormwater pump stations. Upgrades have been completed for 12 stormwater pump stations. This work is partially funded by a grant from FEMA.
- Rehabilitation to multiple stormwater outfalls area included in several sewer rehabilitation projects.
- Design for Storm Sewer Rehabilitation Phase 11 has begun.
- Inspected 51 MS4 outfalls.
- Design started for 26th & K and Scott Circle Pump Station Upgrades.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Stormwater Pump Stations Rehabilitation – This project implements the highest priority rehabilitation or upgrades, addresses issues related to health and safety and station reliability, and will reduce maintenance needs.



Stormwater

(\$ in thousands)

LOCAL DRAINAGE			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
GY	Storm Sewer Rehabilitation at Various Location	2013	Ongoing	\$0	\$0	\$14	\$84	\$128	\$15	\$0	\$0	\$0	\$0	\$241	\$5,908	2027
IE	Storm Sewer Rehabilitation 3	2020	Ongoing	\$8	\$342	\$1,016	\$809	\$241	\$78	\$0	\$0	\$0	\$0	\$2,486	\$6,271	2027
RR	Local Storm Sewer Rehabilitation	2025	Ongoing	\$0	\$312	\$656	\$1,012	\$308	\$354	\$236	\$201	\$150	\$167	\$3,515	\$17,645	2032
WB	Local Storm Sewer Rehab 2	2026	New	\$0	\$0	\$0	\$9	\$406	\$579	\$772	\$767	\$667	\$640	\$3,840	\$44,345	2034
ZJ	Local Storm Sewer Assessment I	2026	New	\$0	\$0	\$0	\$48	\$124	\$150	\$190	\$149	\$83	\$95	\$838	\$8,591	2033
TOTAL LOCAL DRAINAGE BUDGETS				\$8	\$654	\$1,686	\$1,905	\$735	\$977	\$965	\$1,163	\$1,067	\$916	\$853	\$10,921	\$82,760

ON-GOING			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
JH	FY2020 - DSS Stormwater Projects	2020	Closed	\$144	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$820	2022
LO	FY2021 - DSS Stormwater Projects	2021	Ongoing	\$748	\$69	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100	\$923	2024
M8	FY2022 - DSS Stormwater Projects	2022	Ongoing	\$117	\$357	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$357	\$820	2023
MG	FY2023 - DSS Stormwater Projects	2023	Ongoing	\$0	\$655	\$247	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$901	\$845	2024
NV	FY2024 - DSS Stormwater Projects	2024	Ongoing	\$0	\$0	\$665	\$238	\$0	\$0	\$0	\$0	\$0	\$0	\$903	\$870	2025
PI	FY2025 - DSS Stormwater Projects	2025	Ongoing	\$0	\$0	\$0	\$281	\$615	\$0	\$0	\$0	\$0	\$0	\$896	\$896	2026
QA	FY2026 - DSS Stormwater Projects	2026	Ongoing	\$0	\$0	\$0	\$0	\$260	\$570	\$0	\$0	\$0	\$0	\$831	\$923	2027
T7	FY2028 - DSS Stormwater Projects	2028	Ongoing	\$0	\$0	\$0	\$0	\$0	\$501	\$380	\$0	\$0	\$0	\$881	\$979	2029
T9	FY2027 - DSS Stormwater Projects	2027	Ongoing	\$0	\$0	\$0	\$0	\$272	\$583	\$0	\$0	\$0	\$0	\$855	\$950	2028
U6	FY2029 - DSS Stormwater Projects	2029	New	\$0	\$0	\$0	\$0	\$0	\$0	\$907	\$0	\$0	\$0	\$907	\$1,008	2029
U8	FY2030 - DSS Stormwater Projects	2030	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$935	\$0	\$0	\$935	\$1,039	2030
TOTAL ON-GOING BUDGETS				\$1,009	\$1,081	\$942	\$519	\$876	\$842	\$1,084	\$1,287	\$935	\$0	\$7,566	\$10,072	

PUMPING FACILITIES			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion	
NG	Stormwater Pumping Station Rehabilitation	2017	Ongoing	\$960	\$4,829	\$8,692	\$4,161	\$4,126	\$3,732	\$1,417	\$1,579	\$4,948	\$7,642	\$4,957	\$46,083	\$64,227	2032
TOTAL PUMPING FACILITIES BUDGETS				\$960	\$4,829	\$8,692	\$4,161	\$4,126	\$3,732	\$1,417	\$1,579	\$4,948	\$7,642	\$4,957	\$46,083	\$64,227	

PROGRAM MANAGEMENT			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
AT	Stormwater Program Management	2001	Ongoing	\$149	\$173	\$437	\$497	\$264	\$0	\$0	\$0	\$0	\$0	\$1,371	\$11,678	2026
RQ	Storm Water Program Management	2025	Ongoing	\$0	\$0	\$0	\$19	\$212	\$286	\$346	\$275	\$212	\$0	\$1,352	\$1,500	2030
ZT	Stormwater PM FY30	2031	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$124	\$395	\$0	\$520	\$2,000	2035
PROGRAM MANAGEMENT BUDGETS				\$149	\$173	\$437	\$517	\$476	\$286	\$346	\$275	\$212	\$124	\$395	\$3,243	\$15,178



Stormwater

(\$ in thousands)

TRUNK/FORCE SEWERS		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
BO	Future Stormwater Projects	2005	Ongoing	\$42	\$143	\$28	\$170	\$138	\$0	\$0	\$0	\$0	\$0	\$0	\$478	\$15,510	2026
VJ	Major Storm Sewer Rehab I	2026	New	\$0	\$0	\$0	\$0	\$103	\$0	\$0	\$0	\$0	\$0	\$0	\$103	\$15,816	2033
WV	MS4 Outfall Sewer Rehab I	2025	New	\$0	\$0	\$0	\$48	\$218	\$0	\$0	\$0	\$0	\$0	\$0	\$266	\$3,217	2033
XS	Inspection of Stormwater Trunk Sewers	2023	New	\$0	\$628	\$1,055	\$999	\$899	\$0	\$0	\$0	\$0	\$0	\$0	\$3,581	\$10,000	2033
TOTAL TRUNK/FORCE SEWERS BUDGETS				\$42	\$772	\$1,082	\$1,216	\$1,358	\$0	\$0	\$0	\$0	\$0	\$0	\$4,428	\$44,543	
TOTAL STORMWATER BUDGETS				\$2,168	\$7,509	\$12,839	\$8,319	\$7,571	\$5,837	\$3,812	\$4,305	\$7,162	\$8,682	\$6,205	\$72,241	\$216,779	

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

FY 2022 Actual	FY 2023 - FY 2032 CIP Disbursement Plan										Lifetime Budget	
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032		10-yr Total
\$ 31,056	\$ 68,031	\$ 118,457	\$ 185,109	\$ 168,564	\$ 222,916	\$ 277,735	\$ 271,002	\$ 222,140	\$ 143,246	\$ 118,914	\$ 1,796,116	\$ 2,727,733



Sewer Rehab (Watts Branch)



Rock Creek Stem Sewers (Condition Assessment)



Sewer Rehab (Pinehurst Sewer)

Overview

DC Water is responsible for wastewater collection in the District of Columbia, including operation and maintenance of the sanitary sewer system. The sewer system includes approximately 1,320 miles of large interceptor sewers and smaller gravity collection sewers, for a total of approximately 1,900 miles of combined, separate and stormwater sewers, 50,000 manholes and 25,000 catch basins, 16 stormwater pump stations, and 9 wastewater pump stations. In addition, DC Water is responsible for the 50-mile-long Potomac Interceptor System, which provides conveyance of wastewater from Dulles International Airport, and areas in Virginia and Maryland, to the Blue Plains AWWTP.

PROGRAM AREAS

Sanitary Collection System – Projects to rehabilitate sanitary sewer pipes based on the findings of inspection and assessment conducted on these assets.

On-Going – Urgent 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 pump 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, developing design scopes of work, preparing cost estimates, preparing task orders or agreements, and reviewing design documents.

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

ACCOMPLISHMENTS

- Progressive design-build contractor for the rehabilitation of Potomac Interceptor between Manhole 31 and Manhole 30 finalized 60 percent design. Phase 2 contract was submitted for Board approval, and construction is scheduled to start in FY 2022.
- Construction for Soapstone Sewer rehabilitation project has begun.
- Major Potomac Interceptor projects currently in design:
 - Phase 1 Rehabilitation at Clara Barton Parkway
 - Phase 2 Rehabilitation at Potomac River Crossing
 - Phase 4 Rehabilitation at Fairfax and Loudoun Counties
 - Phase 6 Rehabilitation at Clara Barton Parkway and I-495
 - Cabin John Rehabilitation
 - Manhole Rehabilitation
- Nicholson Sewer System Evaluation Study (SSES)
 - The Study has been completed and DC Water have started implementing recommendations to improve the operation of the local sewer system including a CIP project to rehab and replace sanitary sewers and installing level sensors to monitor water level at selected locations.
- Northeast sewer system evaluation survey draft study has been prepared.
- September 10, 2020 Flooding Response
 - Reviewed 591 applications for backwater valve rebates.
 - Processed and reimbursed over 189 rebates.
- Other major sewer projects currently in design include:
 - Fenwick Branch Sewer Rehabilitation
 - Normanstone Sewer Rehabilitation
 - Spring Place Sewer Rehabilitation
 - Glover Archbold Park Sewer Rehabilitation
 - Piney Branch Sewer Rehabilitation
 - Rock Creek Main Interceptor and Beach Drive Sewers Rehabilitation
 - Northeast Boundary Trunk Sewer Rehabilitation
 - Oxon Run Sewer Rehabilitation
 - Upper East Side Interceptor Rehabilitation Phase 1
 - Creekbed Sewer Rehabilitation Oregon Ave at St. Johns
 - Creekbed Sewer Rehabilitation Rock Creek Sherill Drive & Beach Drive
- Local sewer projects currently in design:
 - Service Life Restoration Program Phase 2, 4 and 5
 - Local Sewer Rehab 5-2
 - Local Sewer Rehab 5-3

ACCOMPLISHMENTS CONTINUED

- Completed the following major sewer condition assessment projects:
 - Upper Potomac Interceptor Sewer – inspection completed (5.3 miles)
 - Little Falls Trunk Sewer – inspection completed (1.1 miles)
 - Sewers Under Buildings – inspection completed (1.6 miles)
 - Anacostia Main Interceptor – inspection completed (4.9 miles)
 - Easby Point Trunk Sewer – inspection in progress.
 - Potomac Interceptor (MH28 to MH29) - inspection in progress
 - Northwest Boundary Trunk sewer – inspection in progress
 - East & West Outfall Sewers – inspection in progress
 - East & West Outfall Relief Sewers – inspection in progress
 - North & South Interconnecting Branch Sewers – inspection in progress
- Completed inspection of 45 miles of local sewers (>12-inch and <60-inch diameter) under the Local Sewer Inspection Program.
- Completed visual inspection of about 39 miles of pipe crossings under the Creek Bed Inspections. The Annual Creek Bed Inspection included 816 sewer pipes and 752 manholes, and the Post-Rainfall Creek Bed Inspection included 64 sewer pipes and 42 manholes.
- Heavy cleaning projects currently in progress:
 - Anacostia Main Interceptor Siphons
 - Anacostia Main Interceptor (571 LF by WMATA Garage)
 - B St New Jersey Ave Trunk Sewer Siphon
 - Potomac Interceptor (~2.2 miles)
 - Local Sewers (>12-inch and <60-inch diameter) (~3 miles)
- Extensive coordination continues with DDOT’s South Capitol Street Bridge project to protect critical sewer assets
- Extensive coordination with DDOT Benning Road Reconstruction and Streetcar project:
 - Review of DDOT design drawings to identify possible conflicts with existing sewer assets
 - Conduct hydraulic modeling analysis and evaluate proposed relocation and abandonment of sewer mains
 - Conduct CCTV sewer inspections and condition assessments of existing sewer assets impacted by proposed streetcar
 - Ensure that DC Water facilities are adequately monitored and protected both during and after construction
- Extensive coordination with DDOT South Capitol Street Circulator Facility project:
 - Review of DDOT design drawings to identify possible conflicts with existing sewer assets and technical information for proposed sliplining of West Outfall Sewer
 - Conduct inspections and condition assessments of existing sewer assets impacted by proposed circulator facility building
 - Review of structural calculations to ensure adequate protection of the East and West Outfall Sewers

ACCOMPLISHMENTS CONTINUED

- Reviewed ninety-three design reviews for twenty-five DDOT Public Space projects varying in size, complexity, and design phase. Identified and established an agreement to rehabilitate one sewer main through participation in a DDOT project. The total amount of sewer pipe to be rehabilitated is 201 feet.
- Completed the following:
 - Potomac Interceptor Erosion Impact and Access Road Assessment Phase 1.
 - Rock Creek Stem Sewers Report
 - Technical Memo 18 DC Water Sewer shed Characterization and Wastewater Flow Estimates Update
 - Local Sewer Rehab Dashboard
 - Completed design and material procurements of the safety platforms for bar screens and valve actuators at Potomac Pump Station
 - Completed design and started construction of O Street Pump station loading dock ramp and sluice gate actuator replacement.
 - Started installation of valve actuators replacements and screen lighting at Potomac pump station

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Pump Stations – Continued improvements and other upgrades will ensure proper operations of the pump stations to improve reliability and maintain compliance with regulatory requirements and customer expectations.

Ongoing and Local Sewer Rehabilitation – Renewal of small diameter sewer infrastructure will reduce emergency rehabilitations and maintenance demands for these neighborhood sewers.

Major Sewer Rehabilitation – Renewal of major sewers will reduce emergency rehabilitation and maintenance demands for these sewers.



Sanitary Sewer

(\$ in thousands)

SANITARY COLLECTION SYSTEM			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion	
G1	Small Local Sewer Rehabilitation I	2010	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,172	2022	
J3	Sewer Upgrade - City Wide	2000	Ongoing	\$319	\$206	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$206	\$18,391	2023	
JX	Sanitary Sewer Rehabilitation 10	2016	Ongoing	\$148	\$150	\$2,202	\$9,251	\$4,085	\$0	\$0	\$0	\$0	\$0	\$15,687	\$13,607	2026	
QS	Local Sewer Rehabilitation 5	2020	Ongoing	\$1,119	\$991	\$8,477	\$25,810	\$16,410	\$2,181	\$0	\$0	\$0	\$0	\$53,869	\$45,954	2027	
QT	Local Sewer Rehabilitation 6	2024	Ongoing	\$0	\$0	\$92	\$3,895	\$8,062	\$23,011	\$11,291	\$0	\$0	\$0	\$46,352	\$63,846	2028	
QU	Local Sewer Rehabilitation 7	2026	Ongoing	\$0	\$0	\$0	\$1,622	\$5,717	\$17,691	\$25,026	\$7,982	\$0	\$0	\$58,038	\$82,355	2030	
QW	Local Sewer Rehabilitation 8	2028	Ongoing	\$0	\$0	\$0	\$0	\$218	\$3,853	\$13,012	\$38,980	\$43,570	\$19,625	\$119,258	\$145,705	2036	
QX	Local Sewer Assessment I	2020	Ongoing	\$200	\$2,330	\$6,807	\$5,157	\$647	\$0	\$0	\$0	\$0	\$0	\$14,940	\$12,212	2026	
QY	Local Sewer Rehabilitation 2	2023	Ongoing	\$0	\$906	\$2,275	\$1,730	\$0	\$0	\$0	\$0	\$0	\$0	\$4,911	\$4,000	2025	
QZ	Local Sewer Assessment 3	2026	Ongoing	\$0	\$0	\$5,209	\$3,288	\$7,533	\$4,471	\$4,086	\$4,975	\$5,251	\$1,142	\$35,955	\$40,616	2031	
RG	Local Sewer Rehabilitation 9	2024	Ongoing	\$0	\$0	\$155	\$2,350	\$7,793	\$16,532	\$17,179	\$11,249	\$1,407	\$0	\$56,665	\$78,345	2030	
T4	District Energy Buzzard Point	2025	Ongoing	\$0	\$0	\$0	\$6,660	\$13,679	\$9,531	\$0	\$0	\$0	\$0	\$29,870	\$30,000	2027	
UQ	Local Sewer Rehab 10	2025	New	\$0	\$0	\$0	\$475	\$424	\$252	\$0	\$25	\$1,900	\$4,297	\$33,559	\$57,015	2033	
UR	Local Sewer Rehab 11	2028	New	\$0	\$0	\$0	\$0	\$0	\$0	\$229	\$295	\$973	\$3,359	\$9,880	\$76,918	2035	
VQ	Local Sewer Assessment 4	2031	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,475	\$7,163	\$12,638	\$30,078	2035	
TOTAL SANITARY COLLECTION SYSTEM BUDGETS				\$1,787	\$4,582	\$25,217	\$58,615	\$60,253	\$61,914	\$54,330	\$54,582	\$56,493	\$57,843	\$58,000	\$491,829	\$728,214	
ON-GOING			FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion	
H6	FY2018 - DSS Sanitary Sewer Projects	2018	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,335	2022	
HN	FY2019 - DSS Sanitary Sewer Projects	2019	Closed	\$72	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,200	2022	
J1	FY2020 - DSS Sanitary Sewer Projects	2020	Ongoing	\$3,716	\$358	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$358	\$12,568	2023	
LN	FY2021 - DSS Sanitary Sewer Projects	2021	Closed	\$2,223	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,945	2022	
M9	FY2022 - DSS Sanitary Sewer Projects	2021	Ongoing	\$6,695	\$4,161	\$453	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,614	\$13,335	2024	
MF	FY2023 - DSS Sanitary Sewer Projects	2023	Ongoing	\$0	\$9,577	\$1,926	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,504	\$13,735	2024	
NW	FY2024 - DSS Sanitary Sewer Projects	2024	Ongoing	\$0	\$0	\$14,972	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,972	\$14,225	2024	
OX	FY2025 - DSS Sanitary Sewer Projects	2025	Ongoing	\$0	\$0	\$0	\$14,650	\$0	\$0	\$0	\$0	\$0	\$0	\$14,650	\$14,650	2025	
PZ	FY2026 - DSS Sanitary Sewer Projects	2025	Ongoing	\$0	\$0	\$0	\$17	\$15,073	\$0	\$0	\$0	\$0	\$0	\$15,090	\$15,090	2026	
Q3	FY2003 - DSS Sanitary Sewer Projects	2003	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,784	2022	
T6	FY2028 - DSS Sanitary Sewer Projects	2027	Ongoing	\$0	\$0	\$0	\$0	\$9	\$16,011	\$0	\$0	\$0	\$0	\$16,020	\$16,020	2028	
T8	FY2027 - DSS Sanitary Sewer Projects	2026	Ongoing	\$0	\$0	\$0	\$17	\$15,533	\$0	\$0	\$0	\$0	\$0	\$15,550	\$15,550	2027	
U7	FY2029 - DSS Sewer Sanitary Projects	2028	Ongoing	\$0	\$0	\$0	\$0	\$0	\$9	\$16,492	\$0	\$0	\$0	\$16,501	\$16,501	2029	
U9	FY2030 - DSS Stormwater Projects	2029	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$8	\$15,289	\$0	\$0	\$15,297	\$16,997	2030	
UH	FY2031 - DSS Sewer Sanitary Projects	2029	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8	\$15,289	\$0	\$15,297	\$16,997	2031	
V5	FY2032 DSS Sewer Sanitary Projects	2032	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,756	\$15,756	2033		
TOTAL ON-GOING BUDGETS				\$12,706	\$14,096	\$17,352	\$14,667	\$15,091	\$15,542	\$16,020	\$16,500	\$15,297	\$15,289	\$15,756	\$155,610	\$233,439	



Sanitary Sewer

(\$ in thousands)

PUMPING FACILITIES		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
CX	Sewer Facilities Security Upgrades	2010	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,429	2022
GZ	Sewer Instrumentation & Control	2012	Ongoing	\$35	\$719	\$1,455	\$1,392	\$1,012	\$0	\$0	\$0	\$0	\$0	\$0	\$4,578	\$12,518	2026
LY	Sewer Facilities Security Upgrades	2020	Ongoing	\$0	\$117	\$97	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$215	\$2,000	2024
MB	3rd Street & Constitution Ave NW - Pumping Station	2014	Ongoing	\$16	\$0	\$73	\$97	\$1,226	\$291	\$44	\$486	\$1,038	\$693	\$349	\$4,297	\$7,501	2032
MC	Additional Sewer SCADA System Sites	2015	Ongoing	\$184	\$672	\$465	\$331	\$1,363	\$423	\$0	\$0	\$0	\$0	\$0	\$3,254	\$8,120	2027
PM	East Side Pumping Station	2019	Ongoing	\$0	\$194	\$354	\$506	\$2,071	\$325	\$0	\$0	\$0	\$0	\$0	\$3,450	\$4,356	2027
PT	Existing Sewer Facilities Building Optimization	2020	Ongoing	\$0	\$10	\$68	\$204	\$379	\$0	\$0	\$0	\$0	\$0	\$0	\$661	\$705	2026
RH	Sewer Pump Stations Upgrades	2020	Ongoing	\$143	\$642	\$3,803	\$1,695	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$6,143	\$8,100	2026
RS	Sewer Pump Station Upgrades 2	2026	Ongoing	\$0	\$0	\$0	\$0	\$3,853	\$5,470	\$19,729	\$28,514	\$36,164	\$21,429	\$7,066	\$122,224	\$150,720	2032
RT	Sewer Pump Station Upgrades 3	2027	Ongoing	\$0	\$0	\$0	\$34	\$348	\$999	\$1,889	\$5,359	\$7,725	\$4,136	\$16	\$20,505	\$25,271	2035
RU	Sewer Pump Station Upgrades - Pumps & VFDs	2022	Ongoing	\$0	\$730	\$2,119	\$4,553	\$5,917	\$8,503	\$6,089	\$3,209	\$0	\$0	\$0	\$31,120	\$35,950	2029
SS	Sewer SCADA Replacement	2028	New	\$0	\$0	\$0	\$0	\$0	\$0	\$270	\$71	\$295	\$1,117	\$2,799	\$4,552	\$8,380	2033
TOTAL PUMPING FACILITIES BUDGETS				\$361	\$3,085	\$8,434	\$8,813	\$16,171	\$16,011	\$28,020	\$37,639	\$45,222	\$27,375	\$10,231	\$201,000	\$265,049	
PROGRAM MANAGEMENT		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
AU	Sanitary Sewer Program Management	2001	Ongoing	\$2,236	\$4,904	\$5,834	\$3,409	\$1,937	\$0	\$0	\$0	\$0	\$0	\$0	\$16,084	\$65,441	2026
AV	Combined Sewer Overflow Program Management	2001	Ongoing	\$470	\$1,383	\$2,273	\$2,744	\$2,595	\$1,833	\$1,801	\$1,796	\$1,221	\$1,105	\$1,108	\$17,860	\$57,756	2032
DN	Sewer Inspection Program	2010	Ongoing	\$1,570	\$2,800	\$1,505	\$1,485	\$207	\$207	\$208	\$207	\$28	\$0	\$0	\$6,649	\$27,903	2030
QH	Sanitary Sewer Program Management FY26-30	2026	Ongoing	\$0	\$0	\$0	\$0	\$2,900	\$3,717	\$4,725	\$4,010	\$2,900	\$469	\$0	\$18,720	\$20,800	2031
RP	CSO Program Management	2026	Ongoing	\$0	\$0	\$0	\$0	\$0	\$2,877	\$3,786	\$4,675	\$3,778	\$2,877	\$8	\$18,000	\$20,000	2032
TOTAL PROGRAM MANAGEMENT BUDGETS				\$4,276	\$9,087	\$9,612	\$7,638	\$7,640	\$8,634	\$10,520	\$10,688	\$7,927	\$4,451	\$1,116	\$77,313	\$191,900	



Sanitary Sewer

summary overview financial plan rates&rev **capital** financing departmental glossary

(\$ in thousands)

INTERCEPTOR/TRUNK FORCE	Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
A4 Future Sewer System Upgrades	2004	Ongoing	\$224	\$2,640	\$3,329	\$1,145	\$927	\$0	\$0	\$0	\$0	\$0	\$0	\$8,041	\$46,035	2026
DR Low Area Trunk Sewer Rehabilitation	2007	Ongoing	\$218	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$23,112	2023
FW Rehab Piney Branch Trunk Sewer	2011	Ongoing	\$371	\$1,015	\$6,371	\$9,817	\$4,047	\$0	\$0	\$0	\$0	\$0	\$0	\$21,249	\$30,596	2026
G2 Sewer Structure Rehabilitation I	2010	Ongoing	\$0	\$260	\$541	\$618	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,419	\$9,325	2025
G5 Sewer Rehab Near Creek Beds	2010	Ongoing	\$3,061	\$4,775	\$3,646	\$2,440	\$2,053	\$909	\$3,264	\$14,473	\$13,323	\$4,408	\$0	\$49,290	\$75,065	2031
G6 Sanitary Sewers Under Buildings I	2010	Ongoing	\$0	\$0	\$126	\$408	\$2,332	\$274	\$0	\$0	\$0	\$0	\$0	\$3,141	\$6,805	2027
GH Large Sewer Rehabilitation 3	2012	Ongoing	\$337	\$288	\$4,643	\$11,880	\$4,113	\$0	\$0	\$0	\$0	\$0	\$0	\$20,923	\$24,332	2026
HS Rehabilitation of Influent Sewers	2022	Ongoing	\$0	\$1,457	\$486	\$0	\$619	\$1,770	\$6,069	\$16,887	\$4,093	\$0	\$0	\$31,381	\$37,430	2030
HT Rehabilitation of Anacostia Force Main	2012	Ongoing	\$25	\$796	\$283	\$0	\$0	\$0	\$148	\$286	\$190	\$339	\$0	\$2,042	\$11,376	2032
IF Sanitary Sewer Rehabilitation 2	2015	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,594	2022
IK Potomac Force Main Rehabilitation	2012	Ongoing	\$150	\$130	\$63	\$208	\$111	\$192	\$264	\$1,036	\$1,495	\$103	\$0	\$3,603	\$6,127	2031
IL Creekbed Sewer Rehabilitation 2	2013	Ongoing	\$1,127	\$1,938	\$1,517	\$5,232	\$5,458	\$3,653	\$935	\$4,204	\$1,208	\$0	\$0	\$24,145	\$63,832	2030
IM Creekbed Sewer Rehabilitation 3	2013	Ongoing	\$2	\$223	\$899	\$879	\$1,558	\$6,908	\$3,127	\$286	\$1,307	\$2,510	\$0	\$17,696	\$25,040	2031
IN Upper East Side Trunk Sewer Rehabilitation	2012	Ongoing	\$5	\$411	\$580	\$811	\$1,320	\$8,539	\$3,539	\$0	\$0	\$0	\$0	\$15,201	\$19,044	2028
JO B Street New Jersey Avenue Trunk Sewer Rehab	2004	Ongoing	\$28	\$664	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$664	\$18,074	2023
LZ Potomac Interceptor Projects - Rehab. Phase 2	2015	Ongoing	\$4,895	\$17,885	\$17,818	\$29,553	\$28,864	\$52,419	\$42,384	\$15,530	\$8,442	\$757	\$0	\$213,651	\$274,123	2031
PJ Re-Activation of Anacostia Force Main/Gravity Main as Relief to Anacostia Force Main	2018	Ongoing	\$10	\$199	\$654	\$1,038	\$1,103	\$7,210	\$7,012	\$0	\$0	\$0	\$0	\$17,217	\$20,001	2028
RA Major Sewer Assessment and Heavy Cleaning 1	2021	Ongoing	\$948	\$2,663	\$1,927	\$3,134	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$7,783	\$15,800	2026
RB Major Sewer Assessment and Heavy Cleaning 2	2026	Ongoing	\$0	\$0	\$3,398	\$5,771	\$0	\$0	\$3,625	\$155	\$0	\$0	\$0	\$12,950	\$14,100	2029
RC Major Sewer Rehabilitation 1	2020	Ongoing	\$508	\$1,195	\$9,636	\$18,885	\$5,427	\$3,158	\$18,715	\$11,033	\$5,136	\$256	\$0	\$73,442	\$83,298	2031
RD Major Sewer Rehabilitation 2	2021	Ongoing	\$0	\$540	\$1,224	\$2,150	\$4,536	\$20,613	\$33,028	\$2,443	\$0	\$0	\$0	\$64,534	\$75,783	2029
RE Major Sewer Rehabilitation 3	2024	Ongoing	\$0	\$0	\$0	\$0	\$1,074	\$3,679	\$14,363	\$37,118	\$16,317	\$1,291	\$0	\$73,842	\$88,255	2031
RJ Creekbed Sewer Rehabilitation 4	2028	Ongoing	\$0	\$102	\$674	\$1,256	\$3,542	\$890	\$2,392	\$6,011	\$3,316	\$0	\$0	\$18,183	\$22,000	2030
RL Potomac Interceptor Projects - Rehab Phase 3	2029	Ongoing	\$0	\$0	\$29	\$151	\$182	\$5,197	\$20,222	\$28,266	\$29,299	\$18,306	\$10,133	\$111,785	\$128,483	2032
WI Major Sewer Rehab 4	2028	New	\$0	\$0	\$0	\$0	\$0	\$0	\$87	\$1,509	\$3,100	\$5,017	\$17,086	\$26,800	\$126,700	2035
WP Major Sewer Assessment and Heavy Cleaning 3	2026	New	\$0	\$0	\$0	\$0	\$694	\$1,856	\$3,377	\$4,339	\$3,450	\$1,898	\$2,169	\$17,784	\$21,736	2033
WQ Major Sewer Assessment	2026	New	\$0	\$0	\$0	\$0	\$1,390	\$3,547	\$6,441	\$8,153	\$6,430	\$3,552	\$4,084	\$33,597	\$41,063	2033
TOTAL INTERCEPTOR/TRUNK FORCE SEWER BUDGETS			\$11,909	\$37,182	\$57,842	\$95,377	\$69,410	\$120,816	\$168,845	\$151,593	\$97,201	\$38,289	\$33,811	\$870,364	\$1,309,131	
TOTAL SANITARY SEWER BUDGETS			\$31,056	\$68,031	\$118,457	\$185,109	\$168,564	\$222,916	\$277,735	\$271,002	\$222,140	\$143,246	\$118,914	\$1,796,116	\$2,727,733	

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

FY 2022	FY 2023 - FY 2032 CIP Disbursement Plan											Lifetime Budget
Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-yr Total	
\$ 71,316	\$108,909	\$188,371	\$238,506	\$242,278	\$247,009	\$242,826	\$221,357	\$203,725	\$154,341	\$164,479	\$ 2,011,801	\$ 3,572,035



Soldier's Home Reservoir Upgrades



Small Diameter Water Main Rehab



Small Diameter Water Main Florida Avenue & Sherman Avenue NW

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 distributes drinking water through roughly 1,300 miles of interconnected pipes to more than 700,000 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 flow rate 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.

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 that 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 District’s most vulnerable populations. DC Water operates two mobile laboratories that allow technicians to conduct on-site water quality tests and respond to emergencies. The Drinking Water division also distributes hundreds of lead test kits each year to residents and assists residents with identifying lead sources.

PROGRAM AREAS

Distribution Systems – Provides for the rehabilitation, replacement or extension of the water distribution system through several projects. The distribution system program area is the largest program for the water service area and includes three primary elements: small diameter water main renewal, large diameter water main rehabilitation, and DDOT project relocation needs.

Lead Free DC Program – This program is for the removal of all lead service lines in public and private right of way with copper piping by 2030. The replacement continues throughout the water distribution system as part of water main renewal projects, emergency rehabilitation of water service lines, and for customers that request full replacement as part of the Voluntary Lead Service Replacement (LSR) Program.

On-Going – Includes small projects for urgent rehabilitation of water main breaks, valves and fire hydrants, water service connections, and other minor water main rehabilitation work.

Pumping Facilities – Rehabilitate or upgrade water-pumping stations in the system. All four water pump stations have completed major upgrades within the last fifteen years, and only minor projects are anticipated for the near future.

Storage Facilities – Rehabilitation or upgrade of elevated tanks and reservoirs. Studies to the system have identified the need for upgrades and/or new storage facilities to support changing development patterns, for regulatory compliance, to provide additional water pressure to certain areas of the District, and to provide redundant service during unplanned outages.

Program Management – Provides engineering program management services for the drinking water system capital improvements program, including asset management, developing facilities plans, advancement of the smart infrastructure program, conceptual designs, design scopes of work, cost estimates, and design document review.

ACCOMPLISHMENTS

- Continued installation of small diameter water mains to meet the DC Water Board goal of renewing one percent of the system annually. This renewal includes a combination of replacement with new water mains to reduce water quality degradation from tuberculation, reduce the likelihood of water main breaks and increase the service life of the water distribution system.
- Replaced approximately eight miles of small diameter water mains.
- Completed design and started construction for the rehabilitation of the N Street 66/72-inch Prestressed Concrete Cylinder Pipe (PCCP).
- The following major projects are in design:
 - Dead Ends Large Diameter Water Main Elimination
 - Rehabilitation of Water Mains on Bridges Contract 2
 - Fort Reno Pump Station Upgrades
 - 4th High Reno WSSC Interconnections Project
 - Critical Valve Replacement, Year 1
 - Rehabilitation of Elevated Water Storage Tanks- Good Hope Tank and Boulevard Tank
 - Fort Stanton Reservoir No. 1 Rehabilitation
 - Fort Stanton Reservoir No.2 Abandonment
 - Fort Reno Elevated Tank No. 2 Abandonment
- Extensive coordination continues with DDOT’s South Capitol Street Bridge project to relocate water mains and protect critical transmission mains.
- Reviewed ninety-three design reviews for twenty-five DDOT Public Space projects varying in size, complexity, and design phase. Identified and established agreements to have several water mains replaced through participation in five DDOT projects. The total amount of water main to be rehabilitated is approximately 4,014 lf.
- Completed construction of upgrade and rehabilitation of the Soldiers Home Reservoir. This project corrected several deficiencies identified during an EPA annual sanitary survey ahead of EPA’s deadline and made several other improvements to the reservoir which was originally constructed in 1939.
- Released the Lead-Free DC Plan in June 2021 which outlines a phased in approach to eliminate all lead service lines by 2030.
- Completed Phase 1 (November 2021 – January 2023) of the Capital Improvement Program Emergency Rehabilitation and Replacement (CIPERR) which is a major component of DC Water’s Lead-Free DC plan to replace over 28,000 lead lines prior to 2030. Phase 1 accomplishments include:
 - Installed over 1,300 lead service line replacements. This saved those customers over \$5,200,000.
 - Performed over 3,900 test pits on private and public test pits to strengthen DC Water's Lead Inventory Database.
 - Selected and began design and permitting for over 250 blocks across the city. Blocks selected for replacement activities used an equity-based model that prioritizes replacements for vulnerable populations and under-resourced areas.
 - Developed permit documents and obtained permits for 160 of those blocks through DDOT and DOEE.

ACCOMPLISHMENTS CONTINUED

- Developed and implemented a Communications Playbook that allowed us to achieve an 81% participation level with customers. The Playbook will be used in subsequent phases of the program.
- Developed construction details, data collection protocol, invoicing protocol, field inspection processes, and monthly KPI reporting that will be used for additional phases of the work.
- Completed the following studies:
 - Fort Reno Elevated Tank No. 2 Mothballing Study
 - Fort Stanton Reservoir No. 2 Abandonment Study
 - Fort Reno Pumping Station Condition Assessment and Preliminary Engineering Report
 - Bryant Street Pumping Station West and East Venturi Meter Flow Analyses and Condition Assessment
- Completed Boulevard Tank Inspections which led to critical rehabilitation efforts.
- Commenced emergency restorations at Anacostia Storage Tank No. 02 under the Miscellaneous Facilities Upgrades Phase 7 Project.
- Successfully completed a Contract Action to execute the Upgrades at Anacostia Storage Tank No. 1 & 2 under the Miscellaneous Facilities Upgrade Phase 7 project (FEMA Grant).

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Water Mains – The capital improvement program for linear assets will help to:

- Reduce customer impacts due to pipe breaks.
- Decrease reactive maintenance due to breaks and other unscheduled rehabilitations thereby lowering maintenance costs over time.
- Improve water quality in the distribution system.
- Reduce lead service pipes inventory thereby reducing lead exposure.

Water Pumping and Storage – The upgrades completed in FY 2021 to the Soldiers Home Reservoir ensure regulatory compliance and a number of operational improvements. The Bryant Street Spill Header Improvement project is under design and will provide major operational improvements for the pump station. We are continuing with minor pump station and storage facilities upgrades and improvements which will reduce maintenance costs and avoid the need for major upgrades later.



Water

summary overview financial plan rates&rev

capital

financing departmental glossary

(\$ in thousands)

DISTRIBUTION SYSTEMS	Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
B0 B0 FY 2010 - DDOT Water Projects	2010	Closed	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	2022
BN FY 2011 - DDOT Water Projects	2011	Closed	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	2022
C9 Large Diameter Water Mains I	2014	Ongoing	\$802	\$1,114	\$1,266	\$490	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,870	\$20,532	2025
CJ FY2012 - DDOT Water Projects	2012	Ongoing	\$8	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13	\$6,474	2023
CM FY2013 - DDOT Water Projects	2013	Ongoing	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,549	2022
DE Small Diameter Water Main Rehabilitation 12	2014	Ongoing	\$465	\$1,453	\$4,038	\$12	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,503	\$46,018	2025
F1 Small Diameter Water Main Rehabilitation 13	2014	Ongoing	\$7,237	\$2,731	\$198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,928	\$41,565	2024
F2 Small Diameter Water Main Rehabilitation 14	2017	Ongoing	\$15,753	\$5,921	\$7,873	\$5,365	\$774	\$462	\$85	\$0	\$0	\$0	\$0	\$20,481	\$59,466	2028
F6 Steel Water Main Rehabilitation - Rehabilitation I	2009	Ongoing	\$0	\$164	\$364	\$3,683	\$783	\$0	\$0	\$0	\$0	\$0	\$0	\$4,994	\$12,139	2026
FT Water Mains Rehabilitation Phase II	2014	Ongoing	\$470	\$3,285	\$8,440	\$8,192	\$887	\$0	\$0	\$0	\$0	\$0	\$0	\$20,804	\$35,772	2026
GQ Fire Hydrant Replacement Program - Phase II	2010	Ongoing	\$1,133	\$259	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$278	\$29,120	2024
GR Small Diameter Water Main Rehabilitation 15	2018	Ongoing	\$3,226	\$6,028	\$14,823	\$9,260	\$7,387	\$3,861	\$328	\$0	\$0	\$0	\$0	\$41,688	\$61,300	2028
HX Small Diameter Water Main Rehabilitation 16	2018	Ongoing	\$655	\$1,238	\$11,158	\$17,981	\$9,451	\$1,558	\$30	\$0	\$0	\$0	\$0	\$41,416	\$58,700	2028
I8 Large Valve Replacement (Contract 11-13)	2012	Ongoing	\$52	\$221	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$241	\$19,701	2024
JZ Large Diameter Water Main Replacement 3 - 4 & 5	2021	Ongoing	\$22	\$3,386	\$9,686	\$15,239	\$20,612	\$21,505	\$3,469	\$251	\$200	\$74	\$0	\$74,422	\$98,674	2031
K7 Large Diameter Water Main Replacement 6 - 7 & 8	2024	Ongoing	\$0	\$0	\$31	\$792	\$2,368	\$3,526	\$15,521	\$28,380	\$12,178	\$1,988	\$0	\$64,783	\$89,140	2031
K8 Large Diameter Water Main Replacement 9 - 10 & 11	2027	Ongoing	\$0	\$0	\$0	\$0	\$0	\$447	\$1,502	\$8,079	\$14,936	\$16,188	\$14,619	\$55,770	\$76,400	2033
KE Small Diameter Water Main Rehabilitation 18	2020	Ongoing	\$121	\$1,218	\$3,427	\$7,932	\$11,796	\$6,236	\$1,245	\$0	\$0	\$0	\$0	\$31,855	\$48,147	2028
KF Small Diameter Water Main Rehabilitation 19	2022	Ongoing	\$141	\$712	\$1,935	\$7,783	\$15,423	\$13,091	\$6,654	\$2,773	\$0	\$0	\$0	\$48,373	\$59,950	2029
KG Small Diameter Water Main Rehabilitation 20	2022	Ongoing	\$18	\$138	\$828	\$2,240	\$3,272	\$3,892	\$6,086	\$12,422	\$11,593	\$8,738	\$5,244	\$54,453	\$68,039	2032
KH Small Diameter Water Main Rehabilitation 21	2022	Ongoing	\$2	\$1,026	\$3,490	\$4,070	\$12,046	\$22,316	\$16,032	\$5,845	\$0	\$0	\$0	\$64,824	\$81,153	2029
KI Small Diameter Water Main Rehabilitation 22	2023	Ongoing	(\$11)	\$1,302	\$3,711	\$2,966	\$2,641	\$10,321	\$21,859	\$22,635	\$8,619	\$0	\$0	\$74,054	\$94,788	2030
KJ Small Diameter Water Main Rehabilitation 23	2024	Ongoing	\$0	\$0	\$130	\$1,304	\$3,335	\$22,147	\$42,521	\$10,510	\$0	\$0	\$0	\$79,948	\$104,270	2029
KK Small Diameter Water Main Rehabilitation 24	2025	Ongoing	\$0	\$0	\$0	\$123	\$1,500	\$3,402	\$2,381	\$16,536	\$32,703	\$19,640	\$10,498	\$86,782	\$108,102	2032
KL Small Diameter Water Main Rehab 25	2027	Ongoing	\$0	\$0	\$0	\$0	\$0	\$1,051	\$2,755	\$4,900	\$30,287	\$44,808	\$7,985	\$91,786	\$117,475	2032
MV Small Diameter Water Main Rehabilitation 3	2006	Ongoing	\$1	\$52	\$132	\$872	\$882	\$0	\$0	\$0	\$0	\$0	\$0	\$1,938	\$15,677	2026
O2 Small Diameter Water Main Rehabilitation 10	2013	Ongoing	\$59	\$455	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$455	\$38,877	2023
O3 Small Diameter Water Main Rehabilitation 11	2014	Ongoing	\$169	\$99	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$104	\$42,399	2024
QF District Metering	2023	Ongoing	\$0	\$0	\$257	\$405	\$655	\$273	\$440	\$813	\$976	\$1,071	\$1,223	\$6,113	\$9,930	2032
S3 Large Valve Replacement (Contract 3-7)	1999	Ongoing	\$261	\$127	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$127	\$23,207	2024
U5 WSSC Interconnection Project	2022	Ongoing	\$22	\$44	\$553	\$575	\$3,558	\$3,538	\$890	\$0	\$0	\$0	\$0	\$9,158	\$11,949	2028
KM Small Diameter Water Main Rehab 26	2027	Ongoing	\$0	\$0	\$0	\$0	\$0	\$822	\$2,889	\$5,672	\$6,309	\$13,622	\$35,429	\$64,743	\$119,312	2033
KN Small Diameter Water Main Rehab 27	2028	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$334	\$1,749	\$2,592	\$4,973	\$17,342	\$26,988	\$121,667	2032
K9 Large Diameter Water Main Replacement 12 - 13 & 14	2031	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$435	\$1,747	\$10,812	\$12,994	\$83,480	2032	
KP Small Diameter Water Main Rehab 28	2029	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$153	\$712	\$2,813	\$9,465	\$13,143	\$120,435	2032	
KC Large Valve Replacement Contracts 26 - 27 & 28	2027	Ongoing	\$0	\$0	\$0	\$0	\$0	\$71	\$326	\$2,793	\$4,738	\$4,569	\$3,288	\$15,785	\$20,980	2032
KD Large Valve Replacement Contracts 29 - 30 & 31	2030	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70	\$380	\$3,738	\$4,188	\$22,970	2032
LV Small Diameter Water Main Rehab 29	2030	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150	\$1,997	\$7,141	\$9,288	\$133,052	2038
TOTAL DISTRIBUTION SYSTEMS BUDGETS			\$30,621	\$30,986	\$72,384	\$89,285	\$97,369	\$118,521	\$125,347	\$123,510	\$126,497	\$122,606	\$126,784	\$1,033,289	\$2,102,409	



Water

(\$ in thousands)

LEAD PROGRAM			Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
BW	Lead Free DC Program	2003	Ongoing	\$7,872	\$9,170	\$10,823	\$15,853	\$19,568	\$15,947	\$15,137	\$12,681	\$17,578	\$0	\$0	\$0	\$116,759	\$302,760	2030
ST	Lead Free DC Project	2022	Ongoing	\$10,044	\$33,307	\$66,680	\$92,091	\$90,270	\$75,423	\$59,660	\$50,290	\$27,193	\$0	\$0	\$0	\$494,912	\$513,558	2030
TOTAL LEAD PROGRAM BUDGETS					\$17,917	\$42,477	\$77,504	\$107,944	\$109,838	\$91,370	\$74,797	\$62,971	\$44,771	\$0	\$0	\$611,672	\$816,318	
ON-GOING			Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
D5	FY 2014 - DWS Water Projects	2014	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,248	2022
HY	FY 2019 - DWS Water Projects	2019	Ongoing	\$0	\$230	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$267	\$9,631	2023
JA	FY 2020 - DWS Water Projects	2020	Ongoing	\$95	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53	\$15,070	2023
KW	FY 2021 - DWS Water Projects	2021	Ongoing	\$3,252	\$141	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$141	\$11,830	2023
KX	FY 2022 - DWS Water Projects	2022	Ongoing	\$13,968	\$3,426	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,496	\$15,930	2024
KY	FY 2023 - DWS Water Projects	2023	Ongoing	\$0	\$13,954	\$148	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,102	\$13,150	2024
KZ	FY 2024 - DWS Water Projects	2024	Ongoing	\$0	\$0	\$15,173	\$36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,209	\$14,452	2025
L1	FY 2025 - DWS Water Projects	2025	Ongoing	\$0	\$0	\$0	\$14,750	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,780	\$14,780	2026
L2	FY 2026 - DWS Water Projects	2026	Ongoing	\$1	\$0	\$0	\$0	\$15,890	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,890	\$15,890	2026
L6	FY 2027 - DWS Water Projects	2027	Ongoing	\$0	\$0	\$0	\$0	\$0	\$18,250	\$0	\$0	\$0	\$0	\$0	\$0	\$18,250	\$18,250	2027
L7	FY2028 - DWS Water Projects	2028	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$17,818	\$0	\$0	\$0	\$0	\$0	\$17,818	\$19,575	2028
QJ	DDCS Water Pumping and Storage Projects FY19-21	2020	Ongoing	\$0	\$475	\$1,864	\$2,039	\$1,858	\$1,101	\$1,098	\$1,191	\$1,101	\$1,098	\$0	\$0	\$11,826	\$11,701	2031
L8	FY2029 - DWS Water Projects	2029	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,500	\$0	\$0	\$0	\$0	\$19,500	\$21,000	2029
L9	FY2030 - DWS Water Projects	2030	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,500	\$0	\$0	\$20,500	\$22,000	2030
LA	FY2031 - DWS Water Projects	2031	Ongoing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,781	\$2,219	\$22,000	\$23,500	2032
LW	FY2032 - DWS Water Project	2032	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,404	\$20,404	\$24,200	2033
TOTAL ON-GOING BUDGETS					\$17,316	\$18,280	\$17,292	\$16,825	\$17,779	\$19,351	\$18,915	\$20,691	\$21,601	\$20,879	\$22,623	\$194,235	\$261,206	
PUMPING FACILITIES			Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
AY	Upgrades to Fort Reno Pumping Station	2002	Ongoing	\$402	\$369	\$81	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$496	\$14,473	2025
FD	Water Facility Security System Upgrades	2010	Closed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,137	2021
HI	Bryant Street Pump Station Phase III	2027	Ongoing	\$0	\$0	\$0	\$209	\$228	\$979	\$3,397	\$347	\$0	\$0	\$0	\$0	\$5,160	\$6,620	2029
HR	Anacostia Pump Station Improvements Phase II	2025	Ongoing	\$0	\$20	\$150	\$220	\$424	\$2,561	\$339	\$0	\$0	\$0	\$0	\$0	\$3,715	\$4,700	2028
HV	Bryant Street Pump Station - Spill Header Flow Control	2013	Ongoing	\$528	\$3,143	\$5,376	\$494	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,028	\$11,658	2026
JB	Bryant Street PS Improvements - Phase II	2012	Ongoing	\$1	\$326	\$1,901	\$4,233	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,461	\$12,185	2025
LT	Water System SCADA	2014	Ongoing	\$331	\$1,073	\$1,130	\$696	\$1,396	\$841	\$16	\$0	\$0	\$0	\$0	\$0	\$5,153	\$8,406	2028
LU	Water Facilities Security System Upgrades 2	2016	Ongoing	\$0	\$19	\$52	\$61	\$34	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$193	\$2,000	2027
OR	Fort Reno Pump Station Improvements Phase II	2023	Ongoing	\$0	\$181	\$330	\$495	\$3,545	\$568	\$0	\$0	\$0	\$0	\$0	\$0	\$5,119	\$6,430	2027
OV	16th & Alaska Pump Station Improvements	2027	New	\$0	\$0	\$0	\$0	\$0	\$89	\$323	\$1,730	\$271	\$0	\$0	\$0	\$2,412	\$3,082	2030
OW	Water System Sensor Program (WaSSP)	2022	Ongoing	\$71	\$760	\$980	\$863	\$752	\$753	\$739	\$62	\$0	\$0	\$0	\$0	\$4,907	\$5,800	2029
PS	Existing Water Facilities Building Optimization	2023	Ongoing	\$0	\$18	\$75	\$508	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$601	\$695	2025
S6	West Venturi Meter - Bryant Street Pumping Station	2023	New	\$0	\$0	\$125	\$158	\$1,340	\$574	\$0	\$0	\$0	\$0	\$0	\$0	\$2,197	\$2,404	2027
S7	Water Pumping Station Upgrade	2028	New	\$0	\$0	\$0	\$0	\$0	\$0	\$2,216	\$2,408	\$2,408	\$2,408	\$2,408	\$2,414	\$11,854	\$14,984	2033
TOTAL PUMPING FACILITIES BUDGETS					\$1,332	\$5,910	\$10,202	\$7,983	\$7,734	\$6,391	\$7,029	\$4,547	\$2,678	\$2,408	\$2,414	\$57,295	\$95,574	



Water

(\$ in thousands)

STORAGE FACILITIES		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
FA	Water Storage Facility Upgrades	2009	Ongoing	\$1,250	\$2,923	\$539	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,462	\$37,933	2024
HW	Rehabilitation of Elevated Water Tanks	2023	Ongoing	\$7	\$1,497	\$363	\$412	\$691	\$1,323	\$783	\$238	\$0	\$0	\$0	\$5,308	\$7,000	2029
MA	Saint Elizabeth Water Tank	2002	Ongoing	\$426	\$1,350	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,562	\$47,511	2024
MQ	2MG 4th High Storage Tank	2004	Ongoing	\$0	\$191	\$3,634	\$5,672	\$2,376	\$492	\$0	\$0	\$0	\$0	\$0	\$12,365	\$20,266	2027
MR	2nd High Water Storage	2009	Ongoing	\$0	\$3	\$101	\$78	\$741	\$1,642	\$6,727	\$2,340	\$0	\$0	\$0	\$11,633	\$17,043	2029
QG	Anacostia First and Second High Storage	2019	Ongoing	\$1	\$483	\$1,962	\$5,592	\$468	\$0	\$0	\$0	\$0	\$0	\$706	\$9,210	\$19,171	2032
RX	Water Storage Facility Upgrades Phase II	2026	Ongoing	\$0	\$0	\$0	\$0	\$163	\$377	\$1,877	\$2,348	\$3,241	\$2,211	\$1,590	\$11,808	\$17,800	2036
SW	Water SCADA Replacement	2028	New	\$0	\$0	\$0	\$0	\$0	\$0	\$270	\$71	\$295	\$1,117	\$2,799	\$4,552	\$8,380	2034
TOTAL STORAGE FACILITIES BUDGETS				\$1,682	\$6,447	\$6,811	\$11,754	\$4,438	\$3,834	\$9,658	\$4,997	\$3,536	\$3,328	\$5,096	\$59,899	\$175,104	
PROGRAM MANAGEMENT		Start	Status	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total	Lifetime Budget	Completion
KV	Water Program Management Services 2F	2020	Ongoing	\$2,432	\$4,584	\$3,677	\$1,163	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,424	\$30,610	2025
LB	Water Program Management Services 2G	2025	Ongoing	\$0	\$0	\$0	\$3,433	\$5,120	\$7,542	\$7,080	\$4,641	\$1,551	\$0	\$0	\$29,368	\$35,480	2030
ME	Water System Program Management Services	1999	Ongoing	\$15	\$226	\$501	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$847	\$19,854	2025
NU	Water Program Management Services 2H	2030	New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,090	\$5,120	\$7,563	\$15,773	\$35,480	2035
TOTAL PROGRAM MANAGEMENT BUDGETS				\$2,448	\$4,809	\$4,179	\$4,716	\$5,120	\$7,542	\$7,080	\$4,641	\$4,641	\$5,120	\$7,563	\$55,412	\$121,424	
TOTAL WATER BUDGETS				\$71,316	\$108,909	\$188,371	\$238,506	\$242,278	\$247,009	\$242,826	\$221,357	\$203,725	\$154,341	\$164,479	\$2,011,801	\$3,572,035	

(\$ in thousands)

Below are the annual total disbursements for the various projects within this service area.

	FY 2022	FY 2023 - FY 2032 CIP Disbursement Plan											Lifetime Budget	
	Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-yr Total		
CAPITAL EQUIPMENT	\$ 21,373	\$ 47,421	\$ 30,535	\$ 31,654	\$ 31,776	\$ 34,334	\$ 34,334	\$ 34,334	\$ 34,334	\$ 34,334	\$ 34,334	\$ 34,334	\$ 347,390	\$ 347,390
WASHINGTON AQUEDUCT	\$ 14,683	\$ 67,523	\$ 35,155	\$ 29,480	\$ 29,480	\$ 29,480	\$ 29,480	\$ 29,480	\$ 29,480	\$ 29,480	\$ 29,480	\$ 29,480	\$ 338,518	\$ 338,518
ADDITIONAL CAPITAL PROJECTS	\$ 36,056	\$ 114,944	\$ 65,690	\$ 61,134	\$ 61,256	\$ 63,814	\$ 63,814	\$ 63,814	\$ 63,814	\$ 63,814	\$ 63,814	\$ 63,814	\$ 685,909	\$ 685,909



Fleet Truck



Fleet Skimmer Boat



WAD McMillan North Clearwell

Overview

Additional Capital Programs is a subset of DC Water’s Capital Improvement Program (CIP) and is comprised of Capital Equipment and the Washington Aqueduct.

Capital Equipment – This category accounts for approximately 51% of the Additional Capital Programs budget and includes capital equipment purchases, refurbishment, replacement and enhancement of operational facilities, vehicle equipment, office renovations, mechanical equipment, and Information Technology (IT) software/hardware needs. The current capital equipment disbursement budget includes the following cluster groups:

- **Wastewater Operations** – This cluster is comprised of Wastewater Operations, Wastewater Process Engineering, and Maintenance Services. The capital equipment activities/purchases support work attributable to rehabilitation, replacement, and continuous improvements or enhancements for pumps, screens, large motors, centrifuges, process control systems, and actuators.
- **Water Operations** – The capital equipment activities/purchases for this department include water service replacements, backflow preventers, hydrant locks, and valve replacements.
- **Pumping and Sewer Operations** – these purchases support Supervisory Control and Data Acquisition (SCADA) hardware, flow meters, major build rebuilds, and sewer equipment.
- **Engineering** – purchases for this department support engineering and technical services miscellaneous equipment needs.
- **Finance and Procurement** – This cluster includes the departments of Finance, and Procurement & Compliance. The activities/purchases are primarily for reserve funds to support additional capital equipment needs for new facilities, unplanned emergencies, and capital equipment requiring long-lead times. This also funds the purchases of payroll time clocks, and miscellaneous finance related equipment.
- **Customer Care** – these activities/purchases support the enhancements, replacements, and upgrades of residential and commercial water meters.

- **Information Technology** – This department is comprised of the following clusters: IT Infrastructure and IT Project Management. The IT activities are for equipment purchases for infrastructure and projects, which include laptops, cabling, radios, servers, telephones, and software applications.

- **Shared Services** – Capital equipment within this cluster is primarily for the departments of Office of Emergency Management, Facilities Management, Fleet Management, Security, and Safety. The activities/purchases include, plumbing, elevators, photocopiers, appliances, furniture, vehicles, loaders, dump trucks, vacuum trucks, boats, backhoes, cranes, trailers, forklifts, fire suppression system equipment, renovations, cameras, utility carts, and sensors.

Washington Aqueduct – The Washington Aqueduct, managed by the U.S. Army Corps of Engineers (USACE), provides wholesale water treatment services to DC Water and wholesale customers in Northern Virginia, (Arlington County and Fairfax County Water Authority). DC Water purchases approximately 74 percent of the water produced by the Aqueduct’s two treatment facilities, the Dalecarlia and McMillan Treatment Plants, and thus is responsible for approximately 74 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 inherited a much greater role in oversight of the Aqueduct’s operations and its Capital Improvement Program, than prior to 1997.

The USACE, 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 USACE/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 USACE 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 their National Pollutant Discharge Elimination System (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 USACE 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 committee acted on the proposal.

The Washington Aqueduct continues 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 USACE on this critical issue.

DC Water’s share of Washington Aqueduct’s infrastructure improvements to achieve established service levels for FY 2023 – FY 2032 is \$338.5 million. The increased investments funds Washington Aqueduct’s risk-based asset management CIP, except the following projects: Federally Owned Water Mains, Travilah Quarry Acquisition Outfitting, and Advanced Treatment.



Additional Capital Programs

(\$ in thousands)

	FY 2022 Actual	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	10-Yr Total
WASTEWATER OPERATIONS												
810600	Clean Water Quality & Technology	\$0	\$50	\$50	\$80	\$80	-	-	-	-	-	\$260
810006	Wastewater Operations	\$38	-	-	-	-	-	-	-	-	-	\$0
812003	Wastewater Process Engineering	\$4	\$400	\$625	\$625	\$625	-	-	-	-	-	\$2,275
811003	Maintenance Services	\$1,939	\$4,000	\$4,000	\$4,000	\$4,000	-	-	-	-	-	\$16,000
	Subtotal	\$1,981	\$4,450	\$4,675	\$4,705	\$4,705	-	-	-	-	-	\$18,535
WATER OPERATIONS												
813003	Water Operations	\$139	\$1,050	\$1,195	\$1,195	\$1,195	-	-	-	-	-	\$4,635
	Subtotal	\$139	\$1,050	\$1,195	\$1,195	\$1,195	-	-	-	-	-	\$4,635
PUMPING AND SEWER OPERATIONS												
815000	Pumping Services	\$1,277	\$1,765	\$1,550	\$1,550	\$1,550	-	-	-	-	-	\$6,415
814000	Sewer Operations	\$270	\$210	\$280	\$280	\$280	-	-	-	-	-	\$1,050
	Subtotal	\$1,547	\$1,975	\$1,830	\$1,830	\$1,830	-	-	-	-	-	\$7,465
ENGINEERING												
801000	Engineering & Technical Services	\$42	\$25	\$25	\$25	\$25	-	-	-	-	-	\$100
	Subtotal	\$42	\$25	\$25	\$25	\$25	-	-	-	-	-	\$100
FINANCE & PROCUREMENT												
300003	Finance, Accounting & Budget	\$0	\$10	-	-	-	-	-	-	-	-	\$10
300003	Reserve Fund	\$0	\$10,776	\$5,550	\$5,920	\$5,920	\$30,437	\$30,437	\$30,437	\$30,437	\$30,437	\$210,788
	Subtotal	\$0	\$10,786	\$5,550	\$5,920	\$5,920	\$30,437	\$30,437	\$30,437	\$30,437	\$30,437	\$210,798
CUSTOMER CARE												
600018	On-Going Replacement	\$423	\$2,900	\$2,900	\$2,900	\$2,900	\$3,697	\$3,697	\$3,697	\$3,697	\$3,697	\$33,782
600018	SDWM Meter Program	\$0	\$200	\$698	\$954	\$1,013	\$200	\$200	\$200	\$200	\$200	\$4,066
	Subtotal	\$423	\$3,100	\$3,598	3,854	\$3,913	\$3,897	\$3,897	\$3,897	\$3,897	\$3,897	\$37,848
INFORMATION TECHNOLOGY												
601003	IT Infrastructure	\$2,645	\$3,349	\$2,142	\$2,502	\$2,565	-	-	-	-	-	\$10,558
601012	IT Project Management	\$7,490	\$3,520	\$3,145	\$3,145	\$3,145	-	-	-	-	-	\$12,955
	Subtotal	\$10,135	\$6,869	\$5,287	\$5,647	\$5,710	-	-	-	-	-	\$23,513
SHARED SERVICES												
204000	Facilities Management	\$1,575	\$1,966	\$1,775	\$1,878	\$1,878	-	-	-	-	-	\$7,497
205003	Security	\$1,224	\$800	\$600	\$600	\$600	-	-	-	-	-	\$2,600
202006	Fleet Management	\$4,308	\$16,400	\$6,000	\$6,000	\$6,000	-	-	-	-	-	\$34,400
201006	Office of Emergency Management	\$0	-	-	-	-	-	-	-	-	-	\$0
	Subtotal	\$7,107	\$19,166	\$8,375	\$8,478	\$8,478	-	-	-	-	-	\$44,497
TOTAL CAPITAL EQUIPMENT		\$21,374	\$47,421	\$30,535	\$31,654	\$31,776	\$34,334	\$34,334	\$34,334	\$34,334	\$34,334	\$347,390
WASHINGTON AQUEDUCT		\$14,683	\$67,523	\$35,155	\$29,480	\$29,480	\$29,480	\$29,480	\$29,480	\$29,480	\$29,480	\$338,518
TOTAL ADDITIONAL CAPITAL PROGRAMS		\$36,057	\$114,944	\$65,690	\$61,134	\$61,256	\$63,814	\$63,814	\$63,814	\$63,814	\$63,814	\$685,909