Mission

To safely collect and treat wastewater in compliance with all regulatory requirements using state-ofthe-art technology in the most cost-effective manner in order to improve the environment and enhance the quality of life in Fairfax County.

Focus

The Wastewater Management Program includes wastewater collection and conveyance, wastewater treatment, and planning and monitoring program areas. The primary functions are to strategically plan, and efficiently operate and maintain the wastewater system in the best interest of the County



and its customers. Funding for Fund 69010, Sewer Operation and Maintenance, is financed by a transfer from Fund 69000, Sewer Revenue, which is used to credit all system revenues collected, including availability fees and sewer service charges associated with the program.

This program operates and maintains nearly 3,250 miles of sewer, 63 pump stations and 57 flow-metering stations. Treatment of wastewater generated is provided primarily through six regional wastewater collection and treatment plants. The regional treatment approach takes advantage of economies of scale in wastewater treatment and ensures the economical and efficient operation and management of the program.

One of the six regional plants is the County owned and operated Noman M. Cole, Jr. Pollution Control Plant

(NCPCP), which is currently permitted to treat 67 million gallons per day (mgd) of flow. Other regional facilities where the County has purchased treatment capacity include the District of Columbia Water's Blue Plains Treatment Plant with 31 mgd capacity; Alexandria Renew Enterprises Treatment Plant with 32.4 mgd capacity; Upper Occoquan Service Authority's Treatment Plant with 22.1 mgd capacity; Arlington County's Treatment Plant with 3 mgd capacity; and Loudoun Water's Broad Run Plant with 1 mgd capacity. Fairfax County utilizes all of these facilities to accommodate a total capacity of 156.5 mgd.

The Wastewater Management Program is funded by revenues generated by the customers of the sanitary sewer system and recorded in Fund 69000, Sewer Revenue. Sewer Service Charges support system operation and maintenance costs, debt service payments, and capital projects attributable to supporting and improving wastewater treatment services for existing customers. Availability Charges support a proportional share of system costs and capital projects attributable to growth of the system required to support new customers. Existing customers are defined as those who have paid an Availability Charge for access to the system and receive wastewater treatment services. New customers are those who have not paid the Availability Charge. Upon payment of the Availability Charge and connection to the system, a new customer becomes an existing customer. The County allocates expenses, interest income, bond proceeds, debt service payments, capital improvement project costs, and operating costs between existing and new users of the system. In accordance with the County's "Growth Pays for Growth Policy," both existing and new customers must pay for their share of the system's total annual revenue requirements.

A number of trends that may influence the operation and maintenance of the sanitary sewer system over the next two to five years include the following:

Chesapeake Bay Water Quality Program Requirements - The Chesapeake Bay water quality program requires reductions in the amount of nutrient pollutants discharged from wastewater treatment facilities. In December 2004, the state notified the County that the renewal of the County's Virginia Pollutant Discharge Elimination System (VPDES) permit includes a requirement that nutrient removal be performed using "State of the Art" technology and meet a waste load allocation (cap) for the nitrogen and phosphorous nutrients. A phased approach was used to renovate and upgrade current plant facilities to accommodate these more stringent nutrient discharge requirements. These renovations and upgrades were completed in FY 2015. Other regional plants serving the County are at various stages of upgrade for compliance with the new requirements.

<u>Capacity, Management, Operation, and Maintenance (CMOM)</u> - The United States Environmental Protection Agency (USEPA) has proposed sanitary sewer overflow (SSO) regulations, which require municipalities to develop and implement a Capacity, Management, Operation and Maintenance (CMOM) program to eliminate any sewer overflows and back-ups from the wastewater collection systems. The County has implemented the CMOM program that is featured on the USEPA's website at the following link - https://www3.epa.gov/npdes/pubs/sso_casestudy_fairfax.pdf.

<u>Capital Improvements</u> - Reinvestment in the sewer system infrastructure ensures optimum operation of all wastewater facilities. This initiative, closely related to CMOM endeavors for a quality sewer system, emphasizes capital improvements to wastewater collection and treatment facilities to meet the requirements of the sanitary sewer overflow regulations. The program continues to take a proactive stance toward infrastructure rehabilitation.

Integration of Information Technology - The Geographic Information System (GIS), the Supervisory Control and Data Acquisition (SCADA) system and the Infrastructure Computerized Maintenance Management System (ICMMS) require integration for optimal use. Computing and information technology are an integral part of every aspect of the Wastewater Management Program operations. Today's high customer expectations and increasing reliance on consistent 24-hour services lead to an increasing dependence on stable and reliable integrated information technologies that infuse the business process. Presently, the Enterprise Asset Management system (EAM) has successfully integrated with GIS and ICMMS to provide reports for the SCADA system. The EAM system and SCADA system are not yet integrated. Future customer service needs will require a full enterprise integration of the critical information technology systems to reduce the total cost of ownership, increase availability of critical business data in the right format, and improve the quality and delivery of services to sewer customers.

Asset Management Program - As a result of evaluating the program's financial management strategies, an Asset Management Program was developed. The first phase aligned the program's capital asset policies and procedures with the County's fixed asset policies and developed a process in which to evaluate the program's infrastructure. The second phase developed criteria to identify the program's critical assets. After the criteria were tested and accepted, they were applied to all program assets. The third phase will be the condition assessment of all assets beginning with the most critical assets. In FY 2021, the condition assessment continues on the large diameter pipes, 15-inches and larger, sewer lines that were sliplined in the 1990s and sewer lines with sags.

<u>Wastewater Collection Division (WCD)</u> - operates and maintains approximately 3,250 miles of collection system, 63 pumping stations, and 57 flow meter stations throughout the service area. The agency continues to take a very proactive approach toward maintenance and strives for continuous improvement in its daily functions. WCD maintains facilities at a high competence level.

<u>Wastewater Treatment Division (WTD)</u> - operates and maintains the Noman M. Cole, Jr. Pollution Control Plant. The agency has an exemplary record of producing high-quality clean water, which

surpasses regulatory requirements at a low unit cost relative to other advanced wastewater treatment plants in the region. Construction of facilities for the Enhanced Nutrient Removal upgrades at the plant is complete.

<u>Wastewater Planning and Monitoring Division (WPMD)</u> - establishes and manages the future requirements for the Wastewater Management Program in regards to expansion needs of facilities by reviewing and monitoring new and potential developments in the County. WPMD also analyzes the financial position of the Program in order to maintain competitive rates and high bond rating and achieve financial targets. WPMD and Fairfax County Department of Finance work together annually to create award winning Comprehensive Annual Financial Reports (CAFR) for the Integrated Sewer System. In addition, WPMD documents the high quality of the County's treated wastewater by analyzing an extensive number of water samples. While actively promoting outreach throughout the County, WPMD passes audits, confirms discharge quality, and runs a successful Industrial Pretreatment program to prevent damage to the collection system and the treatment processes, and to protect the health and safety of the employees and the public.

The table below reflects the Wastewater Management Program's projected fiscal health in FY 2021 and FY 2022. The financial planning process incorporates the following indicators that are interrelated and structured to identify the adequacy of rates from a cash flow, business, and compliance standpoint. These indicators are used by the bond rating agencies to determine the Program's credit rating.

Calculated Financial Indicators

Financial Indicator	Target	Achieved	FY 2021	FY 2022
Net Revenue Margin	37.0% to 50.0%	Yes	51.4%	52.0%
Days Working Capital ¹	150 to 200 days	Yes	198	196
Debt Coverage Senior	Min. 3.00x	Yes	4.54x	3.52x
Debt Coverage All-in	1.80x to 2.20x	Yes	2.25x	2.01x
Affordability (% of median income spent on sewer bill)	Less than 1.2%	Yes	0.6%	0.6%
Debt to Net Plant in Service	Below 40.0% Never above 50.0%	Yes	29.6%	31.9%
Outstanding Debt per Connection	Max \$3,000	Yes	\$1,421	\$1,568
Anticipated Sewer Bond Sales Through FY 2021			\$200 million	

¹ The Days Working Capital financial indicator is exclusive of Availability Charges in Fund 69000, Sewer Revenue, and Fund 69300, Sewer Construction Improvement. It is calculated based on Operating Expenses and 360 days.

The billing rates for both Sewer Service Charges and Base Charges are revised in FY 2021. The Base Charge increases from \$32.91 per quarter to \$35.50 per quarter. The Sewer Service Charge increases from \$7.28 to \$7.56 per 1,000 gallons of water consumed. Based on Fairfax County's winter quarter average consumption of 18,000 gallons, the average customer will see an annual cost increase of \$30.52 or 4.7 percent. In addition, as part of the FY 2020 Adopted Budget Plan, the Board of Supervisors approved the establishment of charges to recover a portion of the cost of disposal and treatment of hauled wastewater at the County's septage receiving facility (SRF), which is located at the NCPCP. The Department of Public Works and Environmental Services (DPWES) initially set the charges at a level comparable to the fees charged by the Upper Occoquan Service Authority (UOSA), the only other facility in the County that receives hauled wastewater. Since septic tank and restaurant grease waste has higher strength than portable toilet and landfill leachate waste, the charge for high strength waste will remain the same at \$27 per 1,000 gallons of the hauler's truck

capacity in FY 2021. The fee for low strength waste will increase from \$7.28 per 1,000 gallons of hauler truck capacity in FY 2020 to \$7.56 per 1,000 gallons of hauler truck capacity in FY 2021, which is based on the prevailing sewer service charge and will be modified as the sewer service charge is adjusted in the future. The projected FY 2021 revenue from charges for hauled wastewater is equal to \$165,000. For more information, please refer to Fund 69000, Sewer Revenue, in Volume 2 of the FY 2021 Advertised Budget Plan.

It is anticipated that these billing charges will support the County's ability to maintain high bond ratings (AAA by Fitch Investor Service and Standard and Poor's Corporation and Aaa by Moody's Investors Service, Inc.) from the rating agencies. These high credit ratings have enabled the County to sell bonds on behalf of the Program at interest rates lower than those obtained by most sewer authorities, thereby achieving savings throughout the life of the bonds.

Organizational Chart



Budget and Staff Resources

Category	FY 2019 Actual	FY 2020 Adopted	FY 2020 Revised	FY 2021 Advertised
FUNDING				
Expenditures:				
Personnel Services	\$30,658,789	\$33,475,645	\$33,475,645	\$36,985,211
Operating Expenses	68,563,413	71,300,120	73,280,104	73,961,108
Capital Equipment	693,462	2,193,989	3,922,058	2,547,200
Subtotal	\$99,915,664	\$106,969,754	\$110,677,807	\$113,493,519
Less:				
Recovered Costs	(\$682,619)	(\$598,010)	(\$598,010)	(\$598,010)
Total Expenditures	\$99,233,045	\$106,371,744	\$110,079,797	\$112,895,509
AUTHORIZED POSITIONS/FULL-TIME EQUIVA	LENT (FTE)			
Regular	324 / 324	328 / 328	329 / 329	335 / 335

FY 2021 Funding Adjustments

The following funding adjustments from the <u>FY 2020 Adopted Budget Plan</u> are necessary to support the FY 2021 program:

Employee Compensation

\$1,145,096

An increase of \$1,145,096 in Personnel Services includes \$647,224 for a 2.06 percent market rate adjustment (MRA) for all employees and \$497,872 for performance-based and longevity increases for non-uniformed merit employees, both effective July 2020.

Other Post-Employment Benefits

(\$201,626)

A decrease of \$201,626 in Personnel Services reflects required adjustments associated with providing Other Post-Employment Benefits (OPEBs) to retirees, including the Retiree Health Benefits Subsidy. For more information on Other Post-Employment Benefits, please refer to Fund 73030, OPEB Trust, in Volume 2 of the FY 2021 Advertised Budget Plan.

New Positions \$668,964

An increase of \$668,964 in Personnel Services is necessary to fund salary and Fringe Benefits requirements associated with 6/6.0 FTE new positions in FY 2021, including 1/1.0 FTE Chief Building Engineer, 1/1.0 FTE Engineering Technician I, 1/1.0 FTE Code Specialist I, 1/1.0 FTE Senior Engineer III, 1/1.0 FTE Public Works-Environmental Business Operations Manager and 1/1.0 FTE Instrumentation Technician I. The Chief Building Engineer position will support the efficient operation. of additional and more complex heating and ventilation equipment at the Noman M. Cole Pollution Control Plant. This equipment is needed to comply with new codes and regulations. In 2015, the plant had 57 buildings housing 507 HVAC systems. Since 2015, the plant has added two new chillers, a computerized climate control system, and a LEED certified green building. The Engineering Technician I position will respond to Miss Utility excavation requests (tickets) throughout Fairfax County, locating and marking underground wastewater utility lines in compliance with the Virginia Underground Utility Damage Prevention Act, commonly referred to as the Miss Utility law. The Code Specialist I position will lead or support multiple programs to assess and assure compliance with federal, state, and county pretreatment and sewage disposal regulations and increased Industrial Waste Section revenue. The Senior Engineer III position will help with the implementation of highly specialized engineering and project delivery services. This position will improve efficiency and effectiveness of facility processes, sustain compliance with current and upcoming environmental regulatory requirements, and more effectively address the infrastructure renewal needs of the facility. The Public Works-Environmental Business Operations Manager position will oversee the mechanical maintenance section, provide analysis and evaluate field operations and technical services. This position will be responsible for developing, recommending, and implementing long-term and shortterm improvements in operations based on the available metrics. The Instrumentation Technician I position will operate the camera functions of the new camera-flusher unit. This position will support the Sewer Maintenance Group with cleaning efficiency reviews, productivity assessments, backup investigations, and emergency response.

Capital Project Workload Positions

\$539,230

An increase of \$539,230 is associated with 4/4.0 FTE new positions that will be created in Agency 26, Office of Capital Facilities, including \$359,056 for salaries and \$180,174 for Fringe Benefits. These new positions include 1/1.0 FTE Engineer V, 1/1.0 FTE Senior Engineer III, 1/1.0 FTE Senior Construction Inspector, and 1/1.0 FTE Supervising Engineering Inspector. These positions will address growing workload requirements associated with the planned Wastewater projects in the Capital Improvement Program (CIP).

Personnel Services Adjustment

\$1,357,902

An increase of \$1,357,902 will support department-wide information technology, human resources, communications and business support functions and additional operating expenses within Agency 25, Business Planning and Support. These functions were consolidated in order to better support the Department of Public Works and Environmental Services' (DPWES) four core business areas and ensure that services are provided in an integrated, "one department" approach and that all resources are utilized in an efficient manner.

Operational Requirements

\$2,660,988

An increase of \$2,660,988 in Operating Expenses is necessary to fund increased chemical, electrical, and inter-jurisdictional costs. These expenses represent approximately 85 percent of the total Operating Expenses.

Capital Equipment \$353,211

Funding of \$2,547,200 in Capital Equipment, which is an increase of \$353,211 over the FY 2020 Adopted Budget Plan, includes \$2,505,000 for replacement vehicles and equipment that have outlived their useful life and are not cost effective to repair, and \$42,200 for new equipment. The replacement vehicles and equipment include: \$545,000 for two large flatbed trucks, two flatbed equipment trailers, four pickup trucks, and one skid steer to provide transportation for crews and their equipment; \$500,000 for one freightliner with specialized equipment to clean sewers and manholes; \$300,000 for one backhoe and one skid steer to repair sewer mains and manholes; \$175,000 for one four-door truck with a utility tool body to repair and maintain manholes; \$105,000 for three small SUVs to mark utility lines for Miss Utility calls; \$565,000 for the replacement of critical treatment equipment, including ten level transmitters, twelve blanket finders, a fire alarm, twenty airflow meters, four gates/card systems, four expansion joints and four chemical pumps; \$155,000 for the replacement of critical laboratory equipment, including a complete ammonia and phenol distillation system, a system with racks for storing samples, an isotemp incubator and an HVAC system; and \$160,000 for other replacement technical support equipment used for maintenance requirements. The new Capital Equipment includes \$35,000 for an ion chromatography upgrade to the automated ion analyzer, which will enable the determination of multiple ions from a single injection, and \$7,200 for an uninterrupted power supply system, which will support the laboratory equipment during a power failure.

Changes to
FY 2020
Adopted
Budget Plan

The following funding adjustments reflect all approved changes in the FY 2020 Revised Budget Plan since passage of the <u>FY 2020 Adopted Budget Plan</u>. Included are all adjustments made as part of the FY 2019 Carryover Review, and all other approved changes through December 31, 2019.

Carryover Adjustments

\$3,708,053

As part of the *FY 2019 Carryover Review*, the Board of Supervisors approved funding of \$3,708,053 due to encumbrances of \$1,979,984 in Operating Expenses, encumbrances of \$1,003,553 in Capital Equipment and an adjustment of \$724,516 in Capital Equipment. The adjustment includes \$201,516 to replace specialized vehicles that require an extended period of time to be procured, \$473,000 to replace vehicles that were approved after the FY 2020 budget was approved, and \$50,000 to replace a vehicle that experienced a major technical failure.

Consolidation of Wastewater Project Plan Review

\$0

Land development projects, including developer projects, Virginia Department of Transportation projects, Fairfax County Department of Transportation projects, and stormwater projects, are all reviewed for potential impacts on the wastewater system. In order to better coordinate these reviews, wastewater project plan review functions have been consolidated to Fund 69010, Sewer Operations and Maintenance. As part of this consolidation, 1/1.0 FTE position was transferred from Wastewater Design and Construction in Agency 26, Office of Capital Facilities, to Fund 69010, Sewer Operations and Maintenance. The transferred position was previously supported through cost recovery from Fund 69010, and there is no fiscal impact associated with the transfer.

Cost Centers

Wastewater Collection

The Wastewater Collection Division is responsible for the operation and maintenance of the collection system which includes the physical inspection of sewer lines, the rehabilitation of aging and deteriorated sewer lines, and pumping stations; raising manholes, sewer line location and marking for the Miss Utility Program. The division also responds to emergency repair of sewer lines and provides 24-hour hotline and service response to homeowners in the County.

Category	FY 2019 Actual	FY 2020 Adopted	FY 2020 Revised	FY 2021 Advertised
EXPENDITURES				
Total Expenditures	\$15,791,051	\$19,031,123	\$21,233,386	\$19,723,438
AUTHORIZED POSITIONS/FULL-TIME EQUIVA	LENT (FTE)			
Regular	137 / 137	139 / 139	139 / 139	142 / 142

Wastewater Treatment

The Wastewater Treatment Division includes a variety of activities to support the advanced treatment of wastewater, which includes regulatory requirements associated with the Chesapeake Bay, Clean Water Act and other environmental standards. The plant also provides enhanced odor control services, water and energy management, and water reuse.

Category	FY 2019 Actual	FY 2020 Adopted	FY 2020 Revised	FY 2021 Advertised
EXPENDITURES				
Total Expenditures	\$23,877,089	\$25,739,184	\$26,706,082	\$29,652,475
AUTHORIZED POSITIONS/FULL-TIME EQUIVA	LENT (FTE)			
Regular	134 / 134	135 / 135	134 / 134	136 / 136

Wastewater Planning and Monitoring

The Wastewater Planning and Monitoring Division assesses and monitors long-term planning needs for the Wastewater Management Program and conducts environmental monitoring for regulatory compliance and for protection of the wastewater system and the environment. The staff also determines and plans for infrastructure expansion requirements and financial demands for the entire wastewater system.

Category	FY 2019 Actual	FY 2020 Adopted	FY 2020 Revised	FY 2021 Advertised
EXPENDITURES				
Total Expenditures	\$59,564,905	\$61,601,437	\$62,140,329	\$63,519,596
AUTHORIZED POSITIONS/FULL-TIME EQUIVA	LENT (FTE)			
Regular	53 / 53	54 / 54	56 / 56	57 / 57

Position Detail

The <u>FY 2021 Advertised Budget Plan</u> includes the following positions:

WASTE	WATER COLLECTION - 142 Positions		
	on Program		
1	Director	1	Safety Analyst
1	Human Resources Generalist III	3	Administrative Assistants IV
1	Human Resources Generalist I	2	Administrative Assistants III
1	Management Analyst III		
Projects	s and Assets		
1	Public Works Env. Tech. Spec.	10	Engineering Technicians I [+1]
1	Engineer V	2	Environmental Services Supervisors
2	Engineers IV	7	Instrumentation Technicians II
1	Senior Engineer III	5	Instrumentation Technicians I
2	Engineers III	1	Project Manager II
2	Engineering Technicians III	2	Project Managers I
3	Engineering Technicians II	_	r reject managere r
	Sewers		
1	Public Works Env. Svcs. Mgr.	11	Senior Maintenance Workers
1	Public Works Env. Svcs. Specialist	5	Maintenance Workers
6	Senior Maintenance Supervisors	3	Environmental Services Supervisors
1	Vehicle Maintenance Coordinator	1	Engineer III
12	Heavy Equipment Operators	1	Engineering Technician II
14	Motor Equipment Operators	1	Industrial Electrician III
2	Truck Drivers	1	Instrumentation Technician I [+1]
	g Stations	'	instrumentation reclinician r [+1]
1	Public Works Env. Svcs. Mgr.	1	Public Works Env. Bus. Ops. Mgr. [+1]
1	Industrial Electrician Supervisor	7	Plant Mechanics III
1	Instrumentation Supervisor	7	Plant Mechanics II
2	Plant Maintenance Supervisors	3	Instrumentation Technicians III
2	Industrial Electricians III	2	Instrumentation Technicians II
3	Industrial Electricians II	3	Instrumentation Technicians I
J	Industrial Liectricians II	3	Instrumentation rechilicians i
WASTE	WATER TREATMENT - 136 Positions		
NCPCP			
1	Director	1	Heavy Equipment Supervisor
2	Senior Engineers III	3	Heavy Equipment Operators
1	Safety Analyst	1	Administrative Assistant IV
1	Management Analyst III		
IT Servi			
1	Info. Tech. Prog. Manager I	2	Network/Telecomm. Analysts I
1	Network/Telecomm. Analyst III	1	Programmer Analyst III
4	Network/Telecomm. Analysts II	1	Data Analyst I
Operation			
1	Public Works Env. Svcs. Mgr.	8	Plant Operators III
1	Chief Building Engineer [+1]	14	Plant Operators II
1	Senior Engineer III [+1]	23	Plant Operators I
1	Plant Operation Superintendent	1	Instrumentation Technician II
6	Plant Operations Supervisors		
	ering Support		
1	Engineer V	1	Engineering Technician III
1	Engineer IV	3	Assistant Project Managers
1	Engineer III	Ü	and the second second
	g501 III		

Mainter	nance		
1	Public Works Env. Svcs. Mgr.	5	Instrumentation Technicians II
1	Industrial Electrician Supervisor	5	Senior Maintenance Workers
1	Instrumentation Supervisor	6	Plant Mechanics III
2	Plant Maintenance Supervisors	8	Plant Mechanics II
1	Chief Building Maintenance	1	Painter II
5	Industrial Electricians III	2	Painters I
3	Industrial Electricians II	2	HVACs II
1	Industrial Electrician I	1	General Building Maint. Worker I
2	Welders II	2	Senior Environmental Specialists
3	Instrumentation Technicians III	1	Engineering Technician II
WASTE	WATER PLANNING AND MONITORING - 57 Pos	sitions	
	al Management and Planning	SILIUIIS	
1	Deputy Director, Wastewater/Stormwater	2	Administrative Assistants V
1	Director, Planning/Monitoring Division	1	Administrative Assistant IV
1	Finance Manager, Wastewater/Stormwater	4	Administrative Assistants III
1	Public Works Env. Business Ops. Mgr.	2	Inventory Managers
1	Management Analyst I	2	Material Mgmt. Specialists III
1	Financial Specialist IV	4	Material Mgmt. Specialists II
1	Financial Specialist III	1	Engineering Technician III
1	Financial Specialist II	2	Engineering Technicians II
Engine	ering Planning and Analysis		
1	Engineer V	1	Senior Engineer III
2	Engineers IV	3	Engineers III
Environ	mental Monitoring		
1	Chief, Environmental Monitoring	2	Environmental Technologists III
1	Pretreatment Manager	2	Environmental Technologists II
1	Env. Laboratory Manager	7	Environmental Technologists I
1	Code Specialist III	2	Management Analysts II
3	Code Specialists II	1	Management Analyst I
2	Code Specialists I [+1]	1	Administrative Assistant III
+	Denotes New Position(s)		
+	Deliutes Mem Losition(2)		

Performance Measurement Results

The Wastewater Management Program continues to maintain 100 percent compliance with Title V air permit and State water quality permit requirements.

When comparing average annual sewer service billings for the regional jurisdictions, Fairfax County has a below regional average annual sewer service billing at \$655.80. Other regional jurisdictions range from \$496 to \$1,164 (as of December 2019). The average sewer service billings for the other regional jurisdictions have been developed by applying each jurisdiction's sewer service rate to appropriate Single Family Residence Equivalent's (SFRE) water usage determined from an analysis of Fairfax Water's historical average water usage records for SFREs. Based on the latest rate comparison, Fairfax County ties with Arlington County for the third lowest annual sewer service charge out of the seven jurisdictions. The program is able to maintain its competitive rates while providing quality service to its customers, protecting the environment, and maintaining sufficient financial resources to fully fund the program's initiatives.

Indicator	FY 2017 Actual	FY 2018 Actual	FY 2019 Estimate/Actual	FY 2020 Estimate	FY 2021 Estimate
Compliance with Title V air permit and State water quality permit	100%	100%	100%/100%	100%	100%
Blockages causing sewer back-ups per year (5-yr. avg. = 15)	19	17	15/8	15	15
Average household sewer bill compared to other providers in the area	Below regional average	Below regional average	Below regional average/Below regional average	Below regional average	Below regional average
Debt Coverage Ratio: (Revenue - Operating Cost/Debt)	2.38	2.38	2.35/2.26	2.30	2.25

A complete list of performance measures can be viewed at https://www.fairfaxcounty.gov/budget/fy-2021-advertised-performance-measures-pm

FUND STATEMENT

Category	FY 2019 Actual	FY 2020 Adopted Budget Plan	FY 2020 Revised Budget Plan	FY 2021 Advertised Budget Plan
Beginning Balance	\$5,612,115	\$102,224	\$3,999,070	\$289,273
Transfer In:				
Sewer Revenue (69000)	\$100,470,000	\$109,220,000	\$109,220,000	\$115,500,000
Total Transfer In	\$100,470,000	\$109,220,000	\$109,220,000	\$115,500,000
Total Available	\$106,082,115	\$109,322,224	\$113,219,070	\$115,789,273
Expenditures:				
Personnel Services	\$30,658,789	\$33,475,645	\$33,475,645	\$36,985,211
Operating Expenses	68,563,413	71,300,120	73,280,104	73,961,108
Recovered Costs	(682,619)	(598,010)	(598,010)	(598,010)
Capital Equipment	693,462	2,193,989	3,922,058	2,547,200
Total Expenditures	\$99,233,045	\$106,371,744	\$110,079,797	\$112,895,509
Transfer Out:				
General Fund (10001) ¹	\$2,850,000	\$2,850,000	\$2,850,000	\$2,850,000
Total Transfer Out	\$2,850,000	\$2,850,000	\$2,850,000	\$2,850,000
Total Disbursements	\$102,083,045	\$109,221,744	\$112,929,797	\$115,745,509
Ending Balance ²	\$3,999,070	\$100,480	\$289,273	\$43,764

¹ Funding in the amount of \$2,850,000 is transferred to the General Fund to partially offset central support services supported by the General Fund, which benefit Fund 69010, Sewer Operation and Maintenance. These indirect costs include support services such as Human Resources, Purchasing, Budget and other administrative services.

² The Wastewater Management Program maintains fund balances at adequate levels relative to projected operation and maintenance expenses. These costs change annually; therefore, funding for sewer operations and maintenance is carried forward each fiscal year, and ending balances fluctuate, reflecting the carryover of these funds.