

Quality of Water = Quality of Life

COMPREHENSIVE ANNUAL FINANCIAL REPORT

For the Fiscal Year Ended June 30, 2022



INTEGRATED SEWER SYSTEM An Enterprise Fund of the County of Fairfax, Virginia

Published November, 2022

INTEGRATED SEWER SYSTEM

AN ENTERPRISE FUND OF THE COUNTY OF FAIRFAX, VIRGINIA

FAIRFAX COUNTY WASTEWATER MANAGEMENT



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Annual Comprehensive

FINANCIAL REPORT

For the Fiscal Year Ended June 30, 2022

DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 Government Center Parkway, Suite 358 Fairfax, Virginia 22035 (703) 324-5030, TTY 711 www.fairfaxcounty.gov



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Integrated Sewer System • County of Fairfax, Virginia Annual Comprehensive Financial Report

For the Fiscal Year Ended June 30, 2022

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Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

Integrated Sewer System An Enterprise Fund of the County of Fairfax, Virginia

For its Annual Comprehensive Financial Report For the Fiscal Year Ended

June 30, 2021

Christophen P. Monill

Executive Director/CEO

County of Fairfax, Virginia



To protect and enrich the quality of life for the people, neighborhoods and diverse communities of Fairfax County

November 17, 2022

The Board of Supervisors County of Fairfax Commonwealth of Virginia

Honorable Chairman and Members of the Board:

We are pleased to submit the Annual Comprehensive Financial Report (ACFR) for the County of Fairfax, Virginia (the County) Integrated Sewer System (the System) for the fiscal year ended June 30, 2022. The financial statements included in this report conform to U.S. generally accepted accounting principles (GAAP) as promulgated by the Governmental Accounting Standards Board (GASB). Responsibility for both the accuracy of the presented data and completeness and fairness of the presentation, including all disclosures, rests with management. To the best of our knowledge and belief, the enclosed data are accurate in all material respects and are reported in a manner that presents fairly the financial position and results of operations of the System. All necessary disclosures have been included to enable the reader to gain the maximum understanding of the System's financial affairs.

The General Bond Resolution dated July 29, 1985, governing the issuance of sewer revenue bonds, as modified through July 2009, requires an annual audit of the financial records and transactions of the System by independent certified public accountants. The System's financial statements for the year ended June 30, 2022, were audited by the accounting firm of Cherry Bekaert LLP. The independent auditors concluded, based upon the audit, that there was a reasonable basis for rendering their opinion that the financial statements are fairly presented in conformity with GAAP. The report of independent auditor is presented in the financial section of this ACFR.

This ACFR consists of management's representations concerning the finances of the System. To provide a reasonable basis for making these representations, the System's accounting system is dependent upon a strong foundation of internal accounting controls to ensure that financial information generated is both accurate and reliable; however, because the cost of a control should not exceed the benefits to be derived, the objective is to provide reasonable, rather than absolute assurance that the financial statements are free of any material misstatements. GAAP requires that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of the Management's Discussion and Analysis (MD&A). This letter of transmittal is designed to complement the MD&A and should be read in conjunction with it. The System's MD&A can be found immediately following the report of independent auditor.

PROFILE OF THE SYSTEM

The Fairfax County, Virginia Integrated Sewer System is operated as the Wastewater Management Program (WWM), one of four major activities of the Department of Public Works and Environmental Services, and governed by the County of Fairfax, Board of Supervisors. The System handles approximately 98 million gallons of wastewater per day (MGD) generated mostly from approximately 954,000 County residents. More than 88 percent of the 424,100 County housing units and virtually all businesses in the County are connected to the public sewer system.



The System consists of over 3,250 miles of sewer lines and force mains ranging in size from 8 inches to 72 inches, 63 pump stations ranging in capacity from 0.1 to 37 MGD, and 57 metering stations. The total System workforce is 330 employees. The sewer service area covers approximately 234 square miles in the Potomac River Watershed, a tributary shed of the Chesapeake Bay Basin.

Nearby counties, cities, and towns served by the System receive service through sales of service agreements. The System currently has agreements with the Counties of Loudoun and Arlington, Fort Belvoir, the Cities of Fairfax and Falls Church, and the Towns of Herndon and Vienna. As prescribed by each service agreement, each entity shares in the cost of operating the System. Each entity's share is determined on the basis of actual wastewater flows or reserved treatment capacity.

To treat the wastewater flows generated, the System operates and maintains one advanced wastewater treatment plant, the 67 MGD Noman M. Cole, Jr. Pollution Control Plant, and has 89.50 MGD of purchased capacity entitlement at five non-County facilities, all of which are advanced wastewater treatment facilities. Purchased capacity entitlements are managed through treatment by contract agreements with the District of Columbia Water and Sewer Authority (the Blue Plains Advanced Water Treatment Facility), Loudoun County, Alexandria Renew Enterprises (ARE), Upper Occoquan Sewage Authority (UOSA), and Arlington County. In addition, the System has purchased 0.1 MGD of capacity from the Prince William County Service Authority. As prescribed by each agreement, the System pays its share of the operating, capital, and/or debt costs of each entity's system based on actual wastewater flows and allocated capacity.

FACTORS AFFECTING FINANCIAL CONDITION

Local Economy

Business, Professional, and Occupational License (BPOL) and Sales Taxes are two revenue sources that are good indicators of economic activity in the County. In FY 2022, overall BPOL tax receipts increased 7.6 percent over the previous fiscal year. FY 2022 Sales Tax receipts increased 15.1 percent. The unemployment rate in the County as of June 2022 was 2.5 percent. Residential sewer connections in the system, which are a measure of system growth, grew 0.3 percent in fiscal year 2022.

Debt Management

To finance major capital projects, the System borrows money by issuing sewer revenue bonds or sharing in debt issued by other service authorities. Authorization to issue any debt or share in any debt service rests with the County's Board of Supervisors. As of June 30, 2022, the System had \$489.2 million in Sewer revenue bonds, \$20.1 million in EDA bonds, and \$220.9 million in UOSA debt outstanding. The System continues to maintain its status as a top-rated bond issuer: AAA from Fitch Investor Service (Fitch) and Standard and Poor's Corporation (S&P) and AAA from Moody's Investors Service, Inc (Moody's).

Note (8) to the Financial Statements provides information pertaining to future debt service payments. Table 3 in the Statistical Section provides historical information regarding debt coverage and debt service requirements of the System.

Relevant Financial Policies

VI

SSewer rates are reviewed and revised annually as part of the County's annual strategic planning and budgeting process in order to minimize the annual cost impact on customers due to increases in funding needs for Wastewater Program funding.

Major Initiatives and Accomplishments

Nutrient Removal at Area Treatment Plants - In August 2004, the Virginia Department of Environmental Quality proposed reduced nutrient waste load allocations for Virginia wastewater treatment facilities as amendments to the Water Quality Management Regulation (9VAC25-720). These load allocations were then incorporated into the Virginia's Phase I Watershed Implementation Plan for meeting the EPA Chesapeake Bay Total Maximum Daily Loads (TMDL). To meet the load allocations, enhanced nutrient removal was required of all wastewater treatment plants serving Fairfax County to meet more stringent Chesapeake Bay water quality standards by January 1, 2011. Significant capital funding has been needed to bring treatment facilities into compliance. At the Noman M. Cole, Jr. Pollution Control Plant, a new Moving Bed Bioreactor was constructed and brought on line in 2012 to comply with the new waste load allocation. As a result of the new facility, the Noman M. Cole, Jr. Pollution Control Plant was under its new waste load allocation by more than 50 percent. In fiscal year 2022, total nitrogen discharges from the County's Noman M. Cole, Jr. Pollution Control Plant averaged less than 2.4 mg/1.

Solid Stabilization and Disposal - The Noman M. Cole, Jr. Pollution Control Plant initiated a Biosolids Program in fiscal year 2014 to meet the new EPA Clean Air Act regulations. Phase I includes replacement of the Venturi Scrubbers on the incinerators to provide compliance with the new Clean Air Act Maximum Available Control Technology requirements that went into effect in March 2016. Phases I & II have been completed. Construction on Phase III of the program focuses on the rehabilitation of the existing incineration system and supporting biosolids processing infrastructure. It commenced in fiscal year 2020. Phase IV is expected to commence construction in fiscal year 2027.

Primary and Secondary Renewal Program - In fiscal year 2016, the Noman M. Cole, Jr. Pollution Control Plant initiated a renewal program of the facility's primary and secondary process areas. The goal of the program is to renew facilities to address current and future process, technological, and capacity needs. The program currently has two major phases, interim sustaining improvements and the major program renewal which includes piloting of technologies. Assessment and design of the interim sustaining improvement is in progress and construction is scheduled to start in fiscal year 2023. Depending on the results of piloting and technologies selected construction on the first phase of the major program is estimated to start in fiscal year 2030.

Major Sustaining Program - In fiscal year 2020, WTD initiated a Major Sustaining Study to evaluate infrastructure throughout the facility, include portions of the advanced water treatment, reclaimed water, and preliminary treatment systems. It is expected that this evaluation will be completed in fiscal year 2021. Upon completion, appropriate projects and schedules will be created to address findings of the study, both in terms of scope and timing. It is anticipated that findings of the evaluation will result in multiple design and construction packages with some their implementation occurring within the next five fiscal years.

Awards

GFOA Certificate of Achievement for Excellence in Financial Reporting - For the nineteenth consecutive year, the Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the System for its Annual Comprehensive Financial Report for the fiscal year ended June 30, 2021. In order to be awarded a Certificate of Achievement, a government entity must publish an easily readable and efficiently organized annual comprehensive financial report. This report must satisfy both GAAP and applicable financial reporting requirements.

A Certificate of Achievement is valid for one year only. We believe our current ACFR continues to meet Certificate of Achievement Program's requirements, and we are submitting it to the GFOA to determine its eligibility for another certificate. The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards of state and local government financial reports.

NACWA Platinum Peak Performance Award - The System's Noman M. Cole, Jr. Pollution Control Plant received the Peak Performance Award from the National Association of Clean Water Agencies (NACWA), recognizing the facility's accomplishments in protecting water quality in the County. The award recognizes plants that obtain permit compliance of federal standards for preventing pollution. The System's Noman M. Cole, Jr. Pollution Control Plant has received NACWA awards for permit compliance since 1984. The plant has protected the water quality of the County's streams and watersheds, as well as the Chesapeake Bay.

Extraordinary Environmental Enterprise - The Wastewater Management program has received the designation of Extraordinary Environment Enterprise (E4) from the Virginia Department of Environmental Quality (DEQ) Virginia Environmental Excellence Program (VEEP) for its Environmental Management System (EMS). Currently approximately 276 public and private organizations participate in the VEEP EMS certification program at the E2, E3, and E4 levels. Of these 276 organizations, approximately 44 facilities within the State have reached the E4 level of certification. This designation recognizes facilities that have fully implemented an EMS emphasizing pollution prevention, continual improvement, environmental outreach, and sustainability. This program encourages facilities to surpass compliance with federal and local regulations and engage in environmental stewardship and sustainability practices.

Utility of the Future Recognition (UOTF) - The Wastewater Management Program retained the Utility of the Future Today recognition by the Water Environment Federation, National Association of Clean Water Agencies, Water Environment & Reuse Foundation and Water Reuse Association. The UOTF concept was introduced in 2016 to guide utilities of all sizes toward smarter, more efficient operations and a progression to full resource recovery with enhanced productivity, sustainability, and resiliency. Fairfax County Wastewater Management was one of the sixty-five utilities were honored to receive the UOTF Award.

ACKNOWLEDGMENTS

We express our sincere appreciation to all staff who contributed to this ACFR, especially the members of the System's Wastewater Planning and Monitoring Division of the Department of Public Works and Environmental Services and the Financial Reporting Division of the Department of Finance, who prepared and compiled this report. We commend them for their professionalism, hard work, and continued efforts to improve this report.

This ACFR reflects our continued commitment to the citizens of Fairfax County, the Board of Supervisors, and all interested readers of this report to provide information in conformance with the highest standards of financial reporting.

Respectfully,

County Executive

Christina C. Jackson Chief Financial Officer

Anand Goutam Financial Manager Integrated Sewer System

INTEGRATED SEWER SYSTEM County of Fairfax, Virginia

Urban County Executive Form of Government As of June 30, 2022

BOARD OF SUPERVISORS

Jeffrey C. McKay, Chairman Penelope A. Gross, Vice Chairman James R. Walkinshaw Daniel G. Storck John W. Foust Dalia A. Palchik Walter L. Alcorn Patrick S. Herrity Rodney L. Lusk Kathy L. Smith At-large Mason District Braddock District Mount Vernon District Dranesville District Providence District Hunter Mill District Springfield District Lee District Sully District

COUNTY EXECUTIVE Bryan J. Hill

DEPUTY COUNTY EXECUTIVE Rachel Flynn

DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES Christopher S. Herrington, Director

WASTEWATER COLLECTION DIVISION Shwan Fatah, Director

WASTEWATER TREATMENT DIVISION Michael McGrath, Director

W. D

WASTEWATER PLANNING AND MONITORING DIVISION Shahram Mohsenin, Director

DEPARTMENT OF MANAGEMENT AND BUDGET Christina C. Jackson, Chief Financial Officer

> **DEPARTMENT OF FINANCE** Christopher J. Pietsch, Director

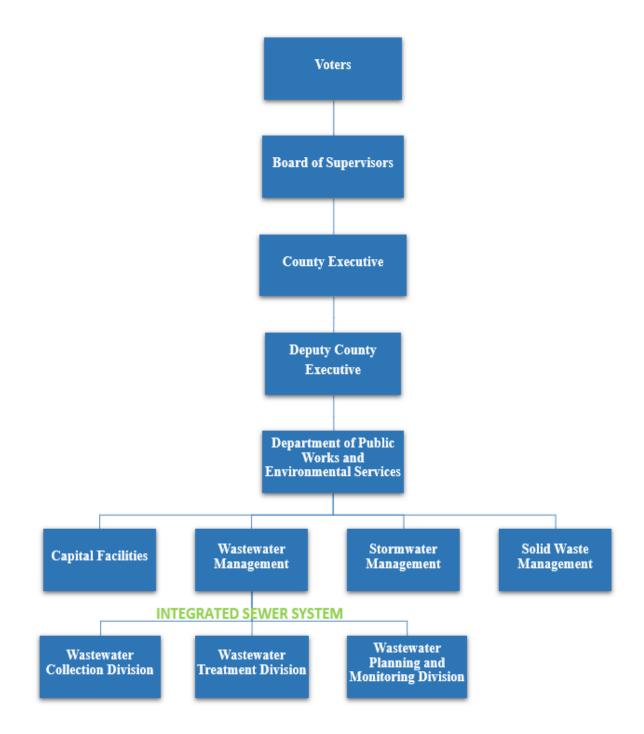
OFFICE OF THE COUNTY ATTORNEY

Elizabeth D. Teare, County Attorney



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Organization of the Integrated Sewer System · County of Fairfax, Virginia



This report was prepared by:

COUNTY OF FAIRFAX, VIRGINIA WASTEWATER MANAGEMENT PROGRAM AND DEPARTMENT OF FINANCE

12000 Government Center Parkway, Suite 358 Fairfax, Virginia 22035 (703) 324-5030, TTY 711 www.fairfaxcounty.gov

WASTEWATER MANAGEMENT PROGRAM

Anand Goutam, CPA, Financial Manager Hal Lambert Mersedeh Katouzian Yvonne T. Sullivan

DEPARTMENT OF FINANCE

Christopher J. Pietsch, Director Richard Modie Jr., Chief, Financial Reporting Division Jennifer Rosales, Financial Reporting Manager Jennifer Minix, CPA Xuan Wang



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Report of Independent Auditor

To the Board of Supervisors County of Fairfax, Virginia

Report on the Audit of the Financial Statements

Opinion

We have audited the accompanying financial statements of the Integrated Sewer System (the "System") an enterprise fund of the County of Fairfax, Virginia, as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the System as of June 30, 2022, and the changes in its financial position and cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are required to be independent of the County of Fairfax, Virginia and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Emphasis of Matter

As discussed in Note 1a, the financial statements present only the System and do not purport to, and do not, present fairly the financial position of the County of Fairfax, Virginia, as of June 30, 2022, the changes in its financial position, or, where applicable, its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to this matter.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and the required supplemental information section, as listed in the table of contents, be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Management is responsible for the other information included in the annual report. The other information comprises the Introductory and Statistical Sections but does not include the basic financial statements and our auditor's report thereon. Our opinion on the basic financial statements does not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated November 17, 2022, on our consideration of the System's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the System's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the System's internal control over financial reporting and compliance.

Cherry Bekaert LLP

Tysons Corner, Virginia November 17, 2022



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INTEGRATED SEWER SYSTEM · COUNTY OF FAIRFAX, VIRGINIA MANAGEMENT'S DISCUSSION AND ANALYSIS (unaudited) June 30, 2022

This section of the County of Fairfax, Virginia Integrated Sewer System's (the System) Annual Comprehensive Financial Report presents a discussion and analysis of the System's financial performance for the fiscal year that ended on June 30, 2022.

The System is a County of Fairfax, Virginia (the County) business-type activity, which is funded separately from other County activities. The System is accounted for separately in an enterprise fund and it is included in the County's Annual Comprehensive Financial Report.

We encourage readers to consider the information presented here in conjunction with the System's financial statements and notes to the financial statements to enhance their understanding of the System's financial performance.

FINANCIAL HIGHLIGHTS

The System's total net position was \$1,378.1 million as of June 30, 2022, compared to \$1,324.4 million as of June 30, 2021.

Operating revenues of \$231.2 million exceeded operating expenses of \$171.0 million, which include depreciation and amortization of \$67.4 million, by \$60.2 million, for the year ended June 30, 2022. After factoring in non-operating revenues and expenses (availability fees, investment revenue, interest expense, and capital contributions), the result was a \$53.7 million increase in net position for fiscal year 2022.

The System's cash and cash equivalents decreased by \$39.1 million, which is primarily due to the cash outflow of capital expenditure during fiscal year 2022. This decrease compares to a \$200.3 million increase in the prior fiscal year, which was primarily due to the sale of Series 2021A Sewer revenue bonds and Series 2021B Sewer revenue refunding bonds during fiscal year 2021.

OVERVIEW OF THE FINANCIAL STATEMENTS

The financial section of this annual report consists of (1) the report of independent auditor, (2) this management's discussion and analysis, and (3) the financial statements of the System. The financial statements, which include notes to explain information presented in the financial statements and to provide more detailed data, report information about the System using the economic resources measurement focus and the accrual basis of accounting, which are similar to those used by private sector companies. The following required financial statements provide both short-term and long-term information about the System's overall financial status.

STATEMENT OF NET POSITION

The Statement of Net Position presents information on all of the System's assets, liabilities, and deferred inflows and outflows of resources, with assets and deferred outflows of resources less liabilities and deferred inflows of resources reported as net position. This statement provides information about the nature and the amounts of investments in resources (assets) and the obligations to the System's creditors (liabilities). It provides a basis for evaluating the capital structure of the System and assessing the liquidity and financial flexibility of the System.

Statement of Revenues, Expenses, and Changes in Net Position

All of the revenues and expenses for the fiscal year are accounted for in the Statement of Revenues, Expenses, and Changes in Net Position. This statement measures the results of the System's operations for the fiscal year and can be used to determine whether the System has successfully recovered all of its expenses through its user fees and charges and its other revenues.

Statement of Cash Flows

The Statement of Cash Flows reports all cash receipts, cash payments, and changes in cash from operating, investing, and capital and related financing activities. This statement provides information about all the sources and uses of cash and the net change in the balance of cash and cash equivalents for the fiscal year.

FINANCIAL ANALYSIS OF THE SYSTEM

Net Position

Net position may serve as a useful indicator of an entity's financial position. The following table presents a summary of the Statements of Net Position for the System as of June 30, 2022 and 2021:

Summary of Net Position As of June 30 (\$ in millions)						
		2022	\$ Change	% Change		2021
Assets:				ge		
Current assets:						
Unrestricted	\$	221.0	50.7	29.8	\$	170.3
Restricted		222.2	(64.3)	(22.4)		286.5
Noncurrent assets:						
Capital assets (net)		1,803.0	59.7	3.4		1,743.3
Other non-current assets		1.5	0.7	87.5		0.8
Total assets		2,247.7	46.8	2.1		2,200.9
Deferred outflows of resources		48.5	(2.4)	(4.7)		50.9
Liabilities:						
Current liabilities		75.4	(0.8)	(1.0)		76.2
Noncurrent liabilities		820.7	(21.6)	(2.6)		842.3
Total liabilities		896.1	(22.4)	(2.4)		918.5
Deferred inflows of resources		22.1	13.1	145.6		9.0
Net position:						
Net investment in capital assets		1,181.5	(26.3)	(2.2)		1,207.8
Restricted		48.5	30.6	170.9		17.9
Unrestricted		148.1	49.4	50.1		98.7
Total net position	\$	1,378.1	53.7	4.1	\$	1,324.4

Nearly 85.7 percent and 91.2 percent of the System's total net position for the fiscal years 2022 and 2021, respectively, is represented by its investment in capital assets (e.g. treatment plants, sewer lines, and equipment) net of depreciation and amortization, less the outstanding debt that was issued to acquire these assets. The \$13.1 million increase in deferred inflows of resources in fiscal year 2022 is primarily attributable to a \$13.4 million increase in deferred inflows of resources related to the pension and OPEB plans. Deferred inflows of resources related to the pension plan increased by \$12.5 million in fiscal year 2022. See Note 6 to the financial statements for more information related to the pension plan and detailed information on the related deferred inflows of resources. The OPEB plan deferred inflows of resources increased by \$0.9 million in fiscal year 2022. Further information regarding the OPEB plan can be found in Note 7 to the financial statements. Excluding the deferred inflows of resources related to the pension and OPEB plans, the total deferred inflows of resources decreased by

\$0.3 million due to decreases in deferred gain on refunding of debt. The \$2.4 million decrease in deferred outflows of resources is primarily the result of a \$3.0 million decrease in deferred loss on refunding of debt. Although the System's investment in its capital assets is reported net of related debt, it should be noted that the resources to pay this debt must be provided from other resources, since the capital assets themselves are not intended to be used to liquidate these liabilities. The \$53.7 million increase in net position in fiscal year 2022 was primarily the result of revenue exceeding expenses due to increased revenue from sales of service and capital contributions.

The restricted portion of net position represents resources that are subject to external restrictions on how they may be used. Certain assets are restricted for capital projects and for debt service. See Note 4 to the financial statements for detailed information pertaining to the restricted net position.

The unrestricted portion of net position represents resources that are not subject to any external restrictions as to use; hence, they are available for future operations. The \$49.4 million increase of unrestricted net position for fiscal year 2022 was primarily due to increases in operating revenues.

Changes in Net Position

The following table summarizes the Statements of Revenues, Expenses, and Changes in Net Position for the System for the fiscal years ended June 30, 2022 and 2021:

Summary of Revenues, Expenses, and Changes in Net Position For the Fiscal Years Ended June 30 (\$ in millions)						
		\$	%			
	2022	Change	Change	2021		
Operating revenues - sales of service	\$ 231.2	14.8	6.8	\$ 216.4		
Less operating expenses:						
Personnel services	36.7	(3.2)	(8.0)	39.9		
Materials and supplies	16.3	(0.6)	(3.6)	16.9		
Contractual services and other	50.6	(1.8)	(3.4)	52.4		
Depreciation and amortization	67.4	1.8	2.7	65.6		
Total operating expenses	171.0	(3.8)	(2.2)	174.8		
Operating income	60.2	18.6	44.7	41.6		
Nonoperating revenues (expenses):						
Availability fees	16.4	(18.3)	(52.7)	34.7		
Investment and other revenues	0.5	(0.3)	(37.5)	0.8		
Interest and other expenses	(25.7)	(5.3)	26.0	(20.4)		
Total nonoperating revenues (expenses), net	(8.8)	(23.9)	(158.3)	15.1		
Income before contributions	51.4	(5.3)	(9.3)	56.7		
Capital contributions	2.3	0.8	53.3	1.5		
Change in net position	53.7	(4.5)	(7.7)	58.2		
Total net position at beginning of year	1,324.4	58.2	4.6	1,266.2		
Total net position at end of year	\$ 1,378.1	53.7	4.1	\$ 1,324.4		

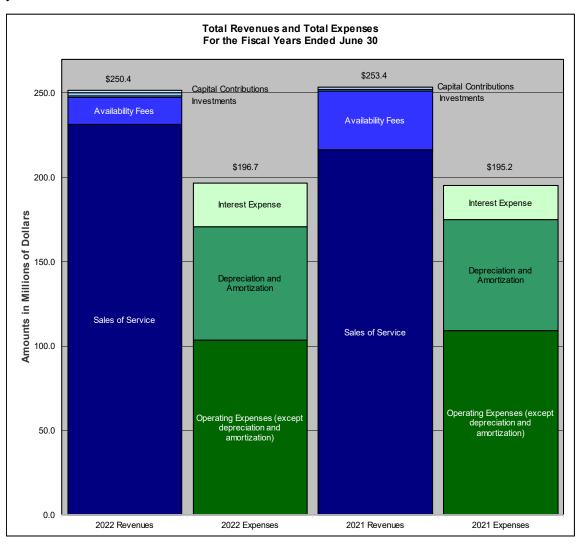
The System's operating revenues consist of volumetric service charges and a service base charge to County users and to neighboring jurisdictions, which reflects a 7.0 percent rate increase during fiscal year 2022. Operating income in fiscal year 2022 increased 44.7 percent compared to prior year, which is consistent with the increase in operating revenues. Operating expenses decreased \$3.8 million in fiscal year 2022. This was primarily due to decreases in personnel and contractual services.

Sewer rates are established by the County Board of Supervisors (the Board) pursuant to Chapter 67.1 of the County Code. Rates and code language are reviewed annually as part of the County's annual strategic planning and budgeting processes and are revised as necessary to ensure that rates generate revenues equitably from new and existing customers, based on the allocation of capital and operating costs, so that growth pays for growth.

System operations and upgrades are funded primarily through sewer service charges to existing customers based on water consumption, in 1,000 gallons, as measured by a water service meter. System expansion and increased treatment capacity is funded primarily through availability fees, one-time charges collected from new sewer customers prior to connection to the System.

The System owns and operates one treatment facility rated at 67.0 million gallons of wastewater per day (MGD), has a 22.1 MGD capacity entitlement in a joint venture facility, and has acquired capacity entitlements totaling 67.5 MGD at five facilities owned by neighboring jurisdictions. The System's share of renovation, upgrade, and expansion costs at non-System-owned facilities is reported as purchased capacity and amortized over ninety-nine years.

A graphic comparison of total revenues, including capital contributions, to total expenses for fiscal years 2022 and 2021 is shown below:



CAPITAL ASSETS AND LONG-TERM DEBT

Capital Assets

As of June 30, 2022, the System's gross investment in capital assets amounted to \$3,155.1 million, or \$1,803.0 million after deducting accumulated depreciation and amortization, as summarized in the table below:

Capital Assets As of June 30 (\$ in millions)							
\$ %							
	2022	Change	Change	2021			
Land	\$ 24.5	7.1	40.8	\$ 17.4			
Easement	0.7	-	-	0.7			
Construction in progress	180.6	(104.6)	(36.7)	285.2			
Buildings and improvements	92.1	0.3	0.3	91.8			
Infrastructure	1,667.3	205.9	14.1	1,461.4			
Equipment and vehicles	17.0	(0.1)	(0.6)	17.1			
Purchased capacity	1,172.9	18.1	1.6	1,154.8			
Gross capital assets	3,155.1	126.7	4.2	3,028.4			
Accumulated depreciation and							
amortization	(1,352.1)	(67.0)	5.2	(1,285.1)			
Total capital assets, net	\$ 1,803.0	59.7	3.4	\$ 1,743.3			

The \$126.7 million increase in gross capital assets during fiscal year 2022 reflects the following major capital asset additions, which were funded with available resources:

- The ongoing improvement costs of the System's wastewater treatment facilities at its Noman M. Cole Pollution Control Plant amounted to \$60.9 million.
- The System's share of the ongoing upgrade costs of the Alexandria Sanitation Authority, the District of Columbia's wastewater treatment facilities, and Arlington County's wastewater treatment facilities, which provide services to certain County residents, were \$11.3 million, \$9.1 million, and \$0.4 million, respectively.
- Improvements to sewer lines and pumping stations in the System, other than donations from developers, totaled \$42.7 million.
- Developers contributed sewer lines and manholes valued at \$2.3 million.

Additional information relative to the System's capital assets can be found in Note 5 to the financial statements.

Long-term Debt

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The following is a summary of the System's gross outstanding long-term debt as of June 30, 2022 and 2021:

Gross Outstanding Debt As of June 30 (\$ in millions)						
		2022	\$ Change	% Change	:	2021
Sewer revenue bonds, net of premiums Subordinated bonds:	\$	489.2	(11.7)	(2.3)	\$	500.9
EDA revenue bonds		20.0	20.0	100.0		-
Sewer revenue bonds		-	(3.3)	(100.0)		3.3
System's share of UOSA's debt		220.9	(17.1)	(7.2)		238.0
Total outstanding debt	\$	730.1	(12.1)	(1.6)	\$	742.2

The \$489.2 million of outstanding sewer revenue bonds and sewer revenue refunding bonds, issued by the System in 2021, 2017, 2016, and 2014, are currently rated AAA by Fitch and S&P and AAA by Moody's. These credit ratings are higher than those obtained by most sewer authorities and they have enabled the County to sell bonds on behalf of the System at lower interest rates, thereby achieving savings throughout the life of the bonds.

The System did not issue any Sewer revenue bonds or Sewer revenue refundng bonds in fiscal year 2022.

In November 2021, the Fairfax County Economic Development Authority (EDA) issued \$74.6 million of Series 2021A EDA Revenue Bonds to fund the costs of construction of a joint Stormwater/Wastewater facility and to pay the issuance costs of the Series 2021A bonds. Of the total par value in the amount of \$74.6 million, Wastewater's component share is \$20.0 million.

In June 2002, the System issued 20-year subordinated sewer revenue bonds in the amount of \$50 million at an interest rate of 3.8 percent to the Virginia Water Facilities Revolving Fund, acting by and through the Virginia Resources Authority (VRA), to fund its share of the ongoing expansion costs of the Alexandria Renew Enterprises' (AlexRenew) wastewater treatment facilities, which provide service to certain County residents. In September 2012, the System executed a rate reduction agreement with VRA, reducing the interest rate on this bond to 2.4 percent. In May 2016, the System executed another rate reduction agreement with VRA, reducing the interest rate on this bond to 0.95 percent. In February 2022, the June 2002 subordinated sewer revenue bonds reached final maturity. As of June 30, 2022, there was no outstanding balance for the VRA subordinated sewer revenue bonds.

The Upper Occoquan Service Authority (UOSA), a joint venture that operates a regional sewage facility, issued regional sewer system revenue refunding bonds in November 2013, May 2013, November 2004, and February 2007 to advance refund certain of its outstanding bonds. In December 2010 and 2007, UOSA issued regional sewer system revenue bonds to fund certain capital improvements. In fiscal year 2012, UOSA entered into VRA loans 2011A and 2011B to fund costs related to the Energy Service project and Phase 1 of the Nutrient Compliance Improvement project (P1NR), respectively. In fiscal year 2015, UOSA advance refunded a portion of the total Series 2007A and 2007B bonds. Of the outstanding balance, \$93,175,291 was advance refunded into the Series 2014 bonds. In fiscal year 2016, UOSA advance refunded the \$19,015,689 remaining outstanding balance of the Series 2007B bonds into the Series 2016B bonds. In fiscal year 2020, UOSA issued regional sewer system revenue bonds to fund improvements to UOSA's regional advanced wastewater treatment system. In fiscal year 2021, UOSA advance refunded the \$91,146,092 remaining outstanding balance of the Series 2014 bonds into the Series 2020 bonds. As of June 30, 2022, the System's share of UOSA's outstanding debt was \$220.9 million.

The System is required by the covenants of the 2009 General Bond Resolution to generate net revenues at least equal to the debt service on its sewer revenue bonds each year. Net revenues are defined as all revenues, except grants and contributed assets, less operating expenses, except depreciation and amortization. The ratio of net revenues to debt service for the senior sewer revenue bonds was 4.33 and 4.30 for fiscal years 2022 and 2021, respectively. The fiscal year 2022 ratio is more favorable than the fiscal year 2021 ratio. Taking all long-term debt into account, the ratio is 2.43 and 2.16 for fiscal year 2021 ratio.

Additional information related to the debt coverage ratios is contained in Table 3.2 of the statistical section of this report. Additional information relative to the System's long-term debt can be found in Note 8 to the financial statements.

ECONOMIC FACTORS AND NEXT YEAR'S BUDGET AND RATES

The following factors, decisions, and conditions are expected to have a significant effect on the financial position and the results of operations for fiscal year 2023 and beyond:

The sewer service charge rate to System users will increase from \$7.72 to \$8.09 per 1,000 gallons of water consumption and the sewer service base charge will increase from \$36.54 to \$40.14 per quarter for residential customers for fiscal year 2023. Subsequent rate increases for the sewer service charge to \$8.41, \$8.73, \$9.21, \$9.67, along with increases to the sewer service base charge to \$44.43, \$49.09, \$51.79, and \$54.38 for fiscal years 2024, 2025, 2026, and 2027, respectively, have also been approved. The base charge for commercial customers is based on the meter size.

Sewer availability fees will increase in fiscal year 2023. Rates for single family homes will increase from \$8,507 to \$8,592, rates for townhouses and apartments will increase from \$6,806 to \$6,874, and rates for hotels and motels will increase from \$2,127 to \$2,148. Nonresidential rates will increase from \$425 per fixture unit to \$430 per fixture unit. Subsequent rate increases for availability fees have been adopted for fiscal years 2024, 2025, 2026, and 2027. The individual rate for each year can be found in Board Item attachments 1a and 1b. Unit sales of sewer availability taps averaged 61 per month during the first quarter of fiscal year 2022, compared to 148 per month during the comparable period of fiscal year 2021.

Fiscal year 2022 revenue decreased approximately 1.5% mainly as a result of a combination of a 52.9% decrease in Availability Charges and a 7.3% increase in Sewer Service Charge. Revenue from Availability Charges is directly linked to construction in the county and can fluctuate from one year to the next. The large percentage decrease in Availability Charges in fiscal year 2022 is a result of amount collected in fiscal year 2021 being the most collected in a single year. Management expects Availability Charges to stabilize in fiscal year 2023.

Delinquent accounts decreased to under 2.0 percent in fiscal year 2022, partially due to the use of the American Rescue Plan ACT (ARPA) funds to reduce outstanding delinquent account balances. This relatively low delinquency rate did not have a significant financial impact on the System. The delinquency rate is expected to be relatively stable in future years. Interest rates on the County's investments through the first quarter of fiscal year 2023 have been approximately 2.1 percent, an increase from fiscal year 2022 rates.

The System's adopted budget for operating expenses, excluding depreciation and amortization, for fiscal year 2023 is \$119.4 million. The System's adopted budget for capital asset acquisitions for fiscal year 2023 is \$89.0 million, to be funded with available resources and bond proceeds. This budget includes \$52.0 million for the rehabilitation and renovation of the System's sewer lines, \$37.0 million for upgrades to the county-owned treatment plant, to be funded with available resources. This budget also includes \$72.8 million for renovations to the county-owned treatment plant, \$18.2 million for upgrades to the county-owned treatment plant, and \$20.0 million, \$1.5 million, and \$23.0 million for the System's share of the upgrade costs of the Alexandria Renew Enterprises, Arlington, and District of Columbia wastewater treatment facilities, respectively, to be funded with bond proceeds.

CONTACTING THE SYSTEM'S FINANCIAL MANAGEMENT

This financial report is designed to provide the System's customers, investors, and creditors with a general overview of the System's finances and to demonstrate the System's accountability for the money it receives. If you have questions about this report or need additional financial information, please contact the County of Fairfax, Virginia, Department of Finance, 12000 Government Center Parkway, Fairfax, Virginia, 22035.

FAIRFAX COUNTY
WASTEWATER MANAGEMENTImage: Constraint of the second s

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INTEGRATED SEWER SYSTEM · COUNTY OF FAIRFAX, VIRGINIA STATEMENT OF NET POSITION June 30, 2022

June 30, 2022	2022
Assets	
Current assets:	
Cash and cash equivalents	\$ 159,797,206
Due from other governmental entities (Note 2):	
Service charges	28,708,291
Unbilled service charges	31,491,526
Accounts receivable	519,256
Inventories	502,716
Total unrestricted assets	221,018,995
Restricted assets (Note 4):	
Cash and cash equivalents	141,372,177
Temporary investments with fiscal agent (Note 3)	48,522,726
Investments with fiscal agent (Note 3)	32,319,929
Total restricted assets	222,214,832
Total current assets	443,233,827
Long-term assets:	
Capital assets (Note 5):	
Non-depreciable:	
Land	24,477,054
Easement	699,856
Construction in progress	180,601,998
Depreciable/amortizable:	
Building and improvements	92,099,752
Infrastructure	1,667,343,110
Equipment and vehicles	16,948,926
Purchased capacity	1,172,904,039
Gross capital assets	3,155,074,735
Accumulated depreciation and amortization	(1,352,055,398)
Total capital assets, net	1,803,019,337
Other non-current assets:	
Accounts receivable	448,239
Net other postemployment benefits asset (Note 7)	1,014,287
Total long-term assets	1,804,481,863
Total assets	2,247,715,690
Deferred Outflows of Resources	17 717 704
Deferred outflows related to pensions (Note 6)	12,713,391
Deferred outflows related to other postemployment benefits (Note 7) Deferred loss on refunding of debt	2,564,080
Total deferred outflows of resources	32,996,246
	48,273,717
Total assets and deferred outflows of resources	\$ 2,295,989,407
	continued

		2022
Liabilities		
Current liabilities:		
Accrued salaries and wages	\$	2,346,063
Accounts payable and accrued liabilities		4,841,183
Contracts payable		23,900,075
Accrued interest payable		10,075,630
Compensated absences (Note 8)		1,610,874
Bonds payable (Note 8)		32,626,090
Total current liabilities		75,399,915
Long-term liabilities:		
Net pension liability (Note 6)		27,987,014
Compensated absences (Note 8)		1,540,971
Bonds payable and related premiums (Note 8)		791,187,099
Total long-term liabilities		820,715,084
Total liabilities		896,114,999
Deferred Inflows of Resources		
Deferred inflows related to pensions (Note 6)		13,154,793
Deferred inflows related to other postemployment benefits (Note 7)		4,186,041
Defermed as in an unformation of data		4,454,669
Deferred gain on refunding of debt		
Total deferred inflows of resources	_	21,795,503
		21,795,503
Total deferred inflows of resources Total liabilities and deferred inflows of resources		
Total deferred inflows of resources Total liabilities and deferred inflows of resources Net Position		917,910,502
Total deferred inflows of resources Total liabilities and deferred inflows of resources Net Position Net investment in capital assets		
Total deferred inflows of resources Total liabilities and deferred inflows of resources Net Position Net investment in capital assets Restricted for (Note 4):		917,910,502 1,181,439,831
Total deferred inflows of resources Total liabilities and deferred inflows of resources Net Position Net investment in capital assets Restricted for (Note 4): Debt service		917,910,502 1,181,439,831 48,522,726
Total deferred inflows of resources Total liabilities and deferred inflows of resources Net Position Net investment in capital assets Restricted for (Note 4):		917,910,502 1,181,439,831

INTEGRATED SEWER SYSTEM · COUNTY OF FAIRFAX, VIRGINIA STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION For the Fiscal Year Ended June 30, 2022

	2022
Operating Revenues	
Sales of service	\$ 231,214,007
Total operating revenues	231,214,007
Operating Expenses	
Personnel services	36,692,825
Materials and supplies	16,235,691
Contractual services	48,993,834
Depreciation and amortization	67,411,472
Professional fees	1,623,269
Total operating expenses	170,957,091
Operating income	60,256,916
Nonoperating Revenues (Expenses)	
Availability fees	16,355,051
Interest income	479,834
Interest expense	(25,737,037)
Gain on disposal of capital assets	70,862
Total nonoperating expenses, net	(8,831,290)
Income before contributions	51,425,626
Capital Contributions	
Grants	618
From developers	2,282,658
Total capital contributions	2,283,276
Change in net position	53,708,902
Total net position at beginning of year	1,324,370,003
Total net position at end of year	\$ 1,378,078,905

See accompanying notes to financial statements.

INTEGRATED SEWER SYSTEM · COUNTY OF FAIRFAX, VIRGINIA STATEMENT OF CASH FLOWS For the Fiscal Year Ended June 30, 2022

		2022
Cash Flows from Operating Activities		
Receipts from customers and users	\$	235,569,368
Payments to employees		(38,465,363)
Payments to suppliers and contractors		(63,627,239)
Net cash provided by operating activities		133,476,766
Cash Flows from Capital and Related Financing Activities		
Capital grants received		618
Decrease in contracts payable		(4,057,190)
Availability fees received		16,355,051
Principal payments on revenue bonds		(29,136,770)
Interest payments on revenue bonds		(23,659,110)
Purchase of capital assets other than purchased capacity		(106,689,117)
Acquisition of purchased capacity		(20,737,917)
Proceeds from the sale of capital assets	_	70,862
Net cash used in capital and related financing activities		(167,853,573)
Cash Flows from Investing Activities		
Sale of restricted investments		29,626,795
Purchase of restricted investments		(34,826,329)
Interest received		457,126
Net cash used in investing activities		(4,742,408)
Net Decrease in Cash and Cash Equivalents		(39,119,215)
Cash and cash equivalents at beginning of year, unrestricted and restricted		340,288,598
Cash and cash equivalents at end of year, unrestricted and restricted	\$	301,169,383

Reconciliation of Operating Income to Net Cash Provided by Operating Activities

Operating income	\$ 60,256,916
Adjustments to reconcile operating income to net cash provided by operating activities:	
Depreciation and amortization expense	67,411,472
Changes in assets and liabilities:	
Decrease in due from other governmental entities	4,355,361
Decrease in inventories and other assets	347,117
Increase in accounts payable and accrued liabilities, net of interest	2,833,766
Decrease in pension and OPEB related deferred outflows, deferred	
inflows, and change in liabilities	 (1,727,866)
Total adjustments	 73,219,850
Net cash provided by operating activities	\$ 133,476,766
Noncash Investing, Capital, and Financing Activities Capital contributions - sewer lines, manholes, etc.	\$ 2,282,658
Capital contributions - sewer lines, manholes, etc.	\$ 2,282,658
Increase in long-term debt resulting from the	
issuance of loans/revenue bonds by Fairfax County	25,100,076
Decrease in long-term debt resulting from the issuance	
of loans/revenue bonds by UOSA	(2,388,948)
Amortization of bond premium	4,505,000
Increase in fair value of investments not classified as cash and cash equivalents	32,999
Removal of purchased capacity through credit of UOSA debt	237,841
UOSA adjustment to bond payments	55,045
Decrease in long-term debt resulting from the sale of purchased capacity	(418,535)
See accompanying notes to the financial statements.	



INTEGRATED SEWER SYSTEM · COUNTY OF FAIRFAX, VIRGINIA NOTES TO THE FINANCIAL STATEMENTS June 30, 2022

(1) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

(a) Basis of Presentation

The County of Fairfax, Virginia Integrated Sewer System (the System) is an enterprise fund of the County of Fairfax, Virginia (the County), and provides sewer services to approximately 1.0 million residents through a County-wide sewer system of over 3,300 miles of sewer lines. The sewer service area, approximately 234 square miles, is defined and controlled through the County of Fairfax Board of Supervisors. The System is governed by the Board and managed and operated separately as the Wastewater Management Program, one of five major activities of the County's Department of Public Works and Environmental Services.

As a County business-type activity, System financial information is separately accounted for in an enterprise fund and is included in the County's Annual Comprehensive Financial Report (ACFR).

These financial statements are only of the operations of the System and are not intended to present the financial position, changes in financial position, or, where applicable, cash flows of the County.

(b) Basis of Accounting

The System is required to recover the costs of providing services, including capital costs, through user charges. Accordingly, the System uses enterprise fund accounting, an economic resources measurement focus, and the accrual basis of accounting. Consequently, revenues are recognized when earned and expenses are recorded as incurred. The System defines operating revenues and expenses as those directly related to providing sewer services. Operating revenues consist of charges to System users. Operating expenses include personnel, materials and supplies, services purchased from other local jurisdictions, and depreciation and amortization of capital assets. All revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses. These include sewer availability fees, bond issue costs, gain (loss) on disposal of capital assets, investment earnings, and interest on outstanding debt.

(c) Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (the GAAP) requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

(d) Tax Status

The System, as part of a local government, is not subject to federal, state, or local income taxes and, accordingly, no provision for income taxes is made.

(e) Sewer Service Charges

The major sources of revenue for the System are sales to existing customers for continuing sewer service. Customers are charged for sewer service based on metered water usage in addition to a base

charge, which is determined by meter size. Sewer service charges are designed to recover the costs of operation and maintenance of the System as well as debt service and capital project costs attributable to supporting or improving wastewater treatment services to the System's customers. Sewer service charges are recorded as operating revenue.

(f) Unbilled Service Charges

An estimated amount has been recorded for services rendered but not yet billed as of the close of the fiscal year. This estimated receivable is calculated by prorating water consumption and billings for certain prior months.

(g) Availability Charges

New customers connecting to the System are required to pay an availability fee before obtaining a building permit in the County. Availability fees are used to recover the construction and financing costs associated with expanding System capacity. Availability fees are reported as nonoperating revenue.

In fiscal year 2015, a payment plan for an availability charge was established with a customer. This payment arrangement necessitated presenting the accounts receivables due beyond one year, as a long-term receivable.

(h) Cash and Investments on Deposit with the County

The System maintains the majority of its available cash in a cash and investment pool administered by the County. Such amounts are considered to be cash equivalents for purposes of the Statement of Cash Flows. To optimize investment returns, the System's funds are invested together with all other County pooled funds, all of which are fully insured or collateralized. The County allocates, on a monthly basis, any investment earnings based on the System's average balance in pooled cash and investments, less an administrative charge.

(i) Flow Assumption for Restricted Assets

Restricted assets are liquid assets which have third-party limitations on their use. When both restricted and unrestricted assets are available for use, it is the System's policy to use restricted resources first and then unrestricted assets when needed. See Note 4 for additional information regarding restricted assets.

(j) Investments

Pooled investments and investments held by fiscal agent consist primarily of U.S. government securities that mature in less than one year from the date of purchase and discount government-sponsored enterprise (GSE) securities, which are stated at amortized cost unless otherwise noted.

(k) Inventories

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Inventories are carried at cost using an average unit cost method. The System's inventories consist of operating supplies and certain system replacement parts.

(l) Capital Assets

Capital assets that individually cost \$10,000 or more with a useful life of more than one year are capitalized and recorded at cost. Contributed capital assets are recorded at their estimated acquisition value on the date of donation. Capital assets are depreciated or amortized over their estimated useful lives using the straight-line method. The estimated useful lives are as follows:

Infrastructure	50 years
Buildings	20-50 years
Purchased capacity	30-99 years
Improvements	15-25 years
Equipment	5-20 years
Vehicles	5-20 years

For constructed assets, all costs necessary to bring such assets to the condition and location necessary for their intended use are initially treated as construction in progress and, subsequently, as buildings, improvements, or purchased capacity once the assets are substantially complete. Depreciation and amortization on constructed assets begin when the assets are substantially ready for their intended use.

(m) Retirement and Other Postemployment Benefits Plans

Employees of the System participate in the Fairfax County Employees' Retirement System (Retirement plan) and the Fairfax County Other Postemployment Benefits (OPEB) plan. The net pension liability, net OPEB liability, and associated deferred outflows of resources and deferred inflows of resources are reported with a one-year lag when compared with the fiduciary net positions as reported by the retirement plan and OPEB plan. Employer contributions to the retirement plan and OPEB plan during the current fiscal year are reflected as deferred outflows of resources which will impact the net pension liability and net OPEB liability of the subsequent year. Benefits and refunds are recognized when due and payable in accordance with the terms of the plans. Detailed information about the retirement plan is found in Note 6 and detailed information about the OPEB plan is found in Note 7.

(n) Compensated Absences

Employees earn vacation pay based on a prescribed formula, which allows employees with less than 10 years of service to accumulate a maximum of 240 hours and employees with 10 years or more of service to accumulate a maximum of 320 hours of vacation benefits as of the end of each calendar year. In addition, employees may accrue compensatory leave for hours worked in excess of their scheduled hours. Compensatory leave in excess of 240 hours at the end of the calendar year is forfeited. The current pay rate and certain employer-related fringe benefits are used to calculate the year end accruals. At June 30, 2022, the System accrued \$3,151,845 for such compensated absences.

(o) Intergovernmental Agreements

The County has entered into several intergovernmental agreements for the purpose of sharing sewage flow and treatment facility costs. The payments to other governmental units made to reimburse operating costs are reported as expenses in the year incurred. The interest payments for debt service are reported as nonoperating expenses. The payments made for construction costs for facility capacity expansions are reported as purchased capacity (Notes 5 and 9). Through these capital payments, the System has exclusive entitlements to treatment capacities at other governmental sewage treatment facilities.

(2) DUE FROM OTHER GOVERNMENTAL ENTITIES

Amounts due from other governmental entities consist of customer service charges, which are billed and collected by Fairfax Water and other local water authorities, and sales of sewer services to other jurisdictions which utilize the System's sewage treatment and collection facilities.

The Board appoints the members of the Board of Fairfax Water; however, the County's accountability does not extend beyond making the appointments. During fiscal year 2022, Fairfax Water collected \$219.8 million on behalf of the System. As of June 30, 2022, the System had receivables of \$49.0 million due from Fairfax Water and \$11.2 million due from other governmental entities.

(3) DEPOSITS AND INVESTMENTS

The System's available cash is invested in the County's cash and investment pool. The County maintains an investment policy, the overall objectives of which are the preservation of capital and the protection of investment principal; maintenance of sufficient liquidity to meet operating requirements; conformance with federal, state, and other legal requirements; diversification to avoid incurring unreasonable risks regarding specific security types or individual financial institutions; and attainment of a market rate of return. Oversight of investment activity is the responsibility of the Investment Committee, which is comprised of the chief financial officer and certain key management and investment staff.

The Code of Virginia (the Code) authorizes the County and the System to purchase the following types of investments:

- Commercial paper
- U.S. Treasury and agency securities
- U.S. Treasury strips
- Certificates of deposits and bank notes
- Insured deposits
- Demand deposit accounts
- Money market funds
- Bankers' acceptances
- Repurchase agreements
- Medium term corporate notes
- Local government investment pool (LGIP)
- Asset-backed securities
- Hedged debt obligations of sovereign governments
- Securities lending programs
- Obligations of the Asian Development Bank
- Obligations of the African Development Bank
- Obligations of the International Bank for Reconstruction and Development
- Obligations of the Commonwealth of Virginia and its instrumentalities
- Obligations of counties, cities, towns, and other public bodies located within the Commonwealth of Virginia
- Obligations of state and local government units located within other states
- Savings accounts or time deposits in any bank or savings institution within the Commonwealth that complies with the Code
- Qualified investment pools
- Supranationals

However, the County's investment policy precludes the investment of pooled funds in derivative securities, reverse repurchase agreements, security lending programs, asset-backed securities, hedged debt, obligations of sovereign governments, obligations of the Commonwealth and its instrumentalities, obligations of counties, cities, towns, and other public bodies located within the Commonwealth, and obligations of state and local government units located within other states.

(a) Interest Rate Risk

The System's investment in the pool is covered by the County's policy to minimize the risk that the fair value of securities in its portfolio will fall due to changes in market interest rates. To achieve this minimization of risk, the County structures the pooled investment portfolio so that sufficient securities mature to meet cash requirements for ongoing operations, thereby avoiding the need to sell securities on the open market prior to maturity. Pooled investments that are purchased to meet liquidity needs shall have a target weighted average maturity of 90 days or less. All other pooled funds are invested primarily in shorter-term securities with a maximum of five years or less from settlement date.

(b) Credit Risk

It is the County's policy to minimize the risk of loss due to the failure of an issuer or other counter party to an investment to fulfill its obligations. The County pre-qualifies financial institutions, broker-dealers, intermediaries, and advisers with which the County does business. Based on the County's investment policy, the pooled investments are limited to relatively low-risk types of securities and are diversified so that potential losses on individual securities will be minimized. Also, new investments shall not be made in securities that are listed on Moody's Watchlist or Standards & Poor's, Inc. (S&P) Credit Watch with a short term negative rating. Moody's, S&P, and Fitch Ratings, Inc. (Fitch) are nationally recognized statistical rating organizations (NRSROs) serving investors, regulators, and issuers. The policy specifies the following acceptable credit ratings for specific types of investments in the pooled portfolio:

- U.S. government agency and GSE instruments should have a rating of at least P-1 by Moody's and A-1 by S&P. In those instances when an instrument does not have a rating, a thorough credit and financial analysis will be conducted by County investment staff.
- Prime quality commercial paper must be rated by at least two of the following: Moody's, with a minimum rating of Prime 1; S&P, with a minimum rating of A-1; Fitch, with a minimum rating of F-1; or by Duff and Phelps, Inc., with a minimum rating of D-1.
- Mutual funds must have a rating of AAA or better by S&P, Moody's, or another nationally recognized rating agency.
- Negotiable certificates of deposit must have a rating of at least A-1 by S&P and P-1 by Moody's if less than one year and a rating of AA by S&P if more than one year.
- Bankers' acceptances must have a rating of at least A-1 by S&P and P-1 by Moody's.
- Commonwealth's LGIP bond funds must have a rating of AAA by S&P and the Virginia Investment Pool Stable NAV Liquidity Pool must have a rating of AAAm by S&P.
- Corporate notes must have a rating of at least Aa by Moody's and a rating of at least AA by S&P.

Supranationals must have a rating of AAA or better by S&P or Moody's.

The portfolio weighted average maturity for the County's entire cash and investment pool was 461 days as of June 30, 2022. The County's portfolio, as of June 30, 2022, consisted of investments with credit quality ratings as follows:

AA	A-1	AAA-m	Unrated	Total
34.9%	34.3%	24.7%	6.1%	100.0%

(c) Concentration of Credit Risk

The County's investment policy sets the following limits for the types of securities held in its pooled investment portfolio:

U.S. Treasury securities and agencies	100%	maximum
Negotiable certificates of deposit	40%	maximum
Banker's acceptances	35%	maximum
Commercial paper	35%	maximum
Repurchase agreements	30%	maximum
Mutual funds	30%	maximum
Virginia Investment Pool - LGIP daily liquidity	30%	maximum
Corporate notes	25%	maximum
Non-negotiable certificates of deposit	25%	maximum
Virginia Investment Pool - LGIP bond fund	25%	maximum
Insured certificates of deposit	15%	maximum
Bank demand deposit	10%	maximum
Supranationals	10%	maximum

In addition, not more than 5 percent of the total pooled funds available for investment at the time of purchase may be invested in any one issuing or guaranteeing corporation for commercial paper, corporate notes, negotiable certificates of deposits, bankers' acceptances, and supranationals.

(d) Custodial Credit Risk

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For deposits, custodial credit risk is the risk that in the event of a failure of a depository financial institution, the reporting entity may not recover its deposits. In accordance with the Virginia Security for Public Deposits Act (the Act), all of the County's deposits are covered by federal depository insurance or collateralized in accordance with the Act, which provides for the pooling of collateral pledged by financial institutions with the Treasurer of Virginia to secure public deposits as a class. No specific collateral can be identified as security for one public depositor and public depositors are prohibited from holding collateral in their name as security for deposits. If any member financial institution fails, the entire collateral pool becomes available to satisfy the claims of governmental entities. If the value of the pool's collateral is inadequate to cover a loss, additional amounts are assessed on a pro rata basis to the members of the pool. The State Treasury Board is responsible for monitoring compliance with the collateralization and reporting requirements of the Act and for notifying local governments of compliance by participating financial institutions. A multiple financial institution collateral pool that provides for additional assessments is similar to depository insurance. Therefore, funds deposited in accordance with the requirements of the Act are considered to be fully insured.

For investments, custodial credit risk is the risk that the County will not be able to recover the value of

its investments or collateral securities that are in the possession of an outside party in the event of the failure of a counter party. Per policy, all of the pooled investments purchased by the County are insured, collateralized, registered, or are securities held by their agent in the County's name.

Additional information, including information by investment type related to the interest rate risk and the credit risk pertaining to the entire cash and investment pool, can be found in the County's ACFR for the fiscal year ended June 30, 2022.

(e) Fair Value Measurement

The System's money market cash and cash equivalents are held by the County and are reported at amortized cost, which approximates fair value. The reporting entity categorizes its fair value measurements within the fair value hierarchy established by GAAP. The hierarchy is based on the source and type of information used to determine the fair value of the asset. Level 1 information is unadjusted quoted prices for identical instruments in accessible active markets. Level 2 information is quoted prices for similar assets in active markets, quoted prices for identical or similar assets in inactive markets, or quoted prices that are observable, either directly or indirectly from a source other than an active market. Level 3 includes unobservable information to arrive at a valuation. As of June 30, 2022, the System's total investments were \$55,742,580 carried at amortized cost.

(4) RESTRICTED ASSETS AND RESTRICTED NET POSITION

As of June 30, 2022, the System had restricted cash and investments of \$222,214,832 for certain purposes in order to manage its funds in accordance with the 1985 General Bond Resolution (the Resolution), as modified through July 2009. The Resolution requires the System to set aside or restrict funds for certain purposes including sewer construction, extensions and improvements, establishing a long-term debt service reserve, and funding current debt service requirements. The System's restricted assets and restricted net position as of June 30, 2022 are as follows:

	 2022
Assets restricted for:	
Capital projects	\$ 141,372,177
Long-term debt service requirements:	
Sewer revenue bonds:	
Series 2014, 2016A, 2017, 2021A, and 2021B	 32,319,929
Total long-term debt service requirements	32,319,929
Current debt service requirements	48,522,726
Total restricted assets	 222,214,832
Less related debt:	
Long-term debt service requirements	(32,319,929)
Long-term debt related to unspent bond proceeds	(141,372,177)
Total restricted net position	\$ 48,522,726

(5) CAPITAL ASSETS

Changes in capital assets for the fiscal year ended June 30, 2022 are as follows:

	Balances June 30, 202	1	Increases	Decreases	J	Balances June 30, 2022
Capital assets:						-
Non-depreciable:						
Land	\$ 17,407	323	\$ 7,069,731	\$ -	\$	24,477,054
Easement	656	441	43,415	-		699,856
Construction in progress	285,175	888	76,654,322	(181,228,212)		180,601,998
Depreciable and amortizable:						
Buildings and improvements	91,850	481	249,271	-		92,099,752
Infrastructure	1,461,362	424	205,980,686	-		1,667,343,110
Equipment and vehicles	17,164	967	202,562	(418,603)		16,948,926
Purchased capacity	1,154,792	912	20,737,917	 (2,626,790)		1,172,904,039
Total capital assets	3,028,410	436	310,937,904	 (184,273,605)		3,155,074,735
Accumulated depreciation and amortization for:						
Buildings and improvements	(56,496	054)	(2,217,779)	-		(58,713,833)
Infrastructure	(724,522	610)	(33,472,224)	-		(757,994,834)
Equipment and vehicles	(12,278	108)	(1,181,111)	418,603		(13,040,616)
Purchased capacity	(491,765	757)	(30,540,358)	 -		(522,306,115)
Total accumulated depreciation						
and amortization	(1,285,062	530)	(67,411,472)	 418,603		(1,352,055,398)
Total capital assets, net	\$ 1,743,347	906	\$ 243,526,432	\$ (183,855,002)	\$	1,803,019,337

Changes in purchased capacity, net of accumulated amortization, for the year ended June 30, 2022, in relation to each jurisdiction, are as follows:

	Balances June 30, 2021		Additions (net of disposals)		Amortization		Balances June 30, 2022
Purchased capacity, net:							
Blue Plains	\$	220,075,878	\$	9,081,367	\$	(7,044,168)	\$ 222,113,077
UOSA		152,475,969		(2,626,790)		(10,616,418)	139,232,761
Alexandria Renew Enterprises		243,981,763		11,282,386		(10,519,309)	244,744,840
Arlington County		32,693,397		374,164		(1,655,256)	31,412,305
Prince William County Service Authority		304,000		-		(30,400)	273,600
Loudoun Water		13,496,148				(674,807)	12,821,341
Total purchased capacity, net	\$	663,027,155	\$	18,111,127	\$	(30,540,358)	\$ 650,597,924

(6) RETIREMENT PLAN

(a) Plan Description

Employees of the System are provided with pensions through the Fairfax County Employees' Retirement System (ERS), a single-employer defined benefit pension plan, presented as a cost-sharing plan in the System's financial statements, which covers full-time and certain part-time employees of Fairfax County and its component units who are not covered by other plans of the County or the Virginia Retirement System.

(b) Benefits Provided

Benefit provisions are established and may be amended by County ordinances. All benefits vest at five years of creditable service. Members who were hired before January 1, 2013 may elect to join Plan A or Plan B, and members who were hired on or after January 1, 2013 may elect to join Plan C or Plan D. To be eligible for normal retirement, an individual must meet the following criteria: (a) attain the age of 65 with five years of creditable service, (b) for Plans A and B, attain the age of 50 with age plus years of creditable service being greater than or equal to 80, or (c) for Plans C and D, attain the age of 55 with age plus years of service being greater than or equal to 85. The normal retirement benefit is calculated using average final compensation (i.e., the highest 78 consecutive two week pay periods or the highest 36 consecutive monthly pay periods) and years (or partial years) of creditable service at date of termination. In addition, if normal retirement occurs before Social Security benefits are scheduled to begin, an additional monthly benefit is paid to retirees. The plan provides that unused sick leave credit may be used in the calculation of average final compensation by projecting the final salary during the unused sick leave period. Those who commenced employment on or after January 1, 2013, may not use more than 2,080 hours of accrued sick leave toward service credit for retirement or Deferred Retirement Option Program (DROP) entry. The benefit for early retirement is actuarially reduced and payable at early termination.

Effective July 1, 2005, DROP was established for eligible members of the ERS. Members who are eligible for normal service retirement are eligible to participate in this program. DROP provides the ability for an employee to retire for purposes of the pension plan, while continuing to work and receive a salary for a period of three years. During the DROP period, the pension plan accumulates the accrued monthly benefit into an account balance identified as belonging to the member. The account balance is credited with interest in the amount of 5.0% per annum, compounded monthly. The monthly benefit is calculated using service and final compensation as of the date of entry in DROP, with increases equal to the annual cost-of-living adjustment provided for retirees.

(c) Funding Policy

All contribution requirements for ERS are established and may be amended by County ordinances, including member contribution rates. Plan A and Plan C require member contributions of 4.00 percent of compensation up to the wage base and 5.33 percent of compensation in excess of the Social Security wage base. Plan B, Plan D, and Plan E require member contributions of 5.33 percent of compensation.

The County is required to contribute at an actuarially determined rate. The rate for the year ended June 30, 2022, was 28.88 percent of annual covered payroll. The employer contribution made during the measurement period of the liability, for fiscal year 2021 determined contribution, was \$5,387,683. This is prior year's subsequent period contribution. For fiscal year 2022, employer contribution, a deferred outflow of resources as of June 30, 2022, was \$5,510,229. This is current year's subsequent period contribution.

(d) Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

At June 30, 2022, the System reported a liability of \$27,987,014 for its proportionate share of the net pension liability. The ERS calculated total pension liability was based on participant data collected as of December 31, 2020 and an actuarial valuation as of June 30, 2021, using the entry age actuarial cost method, with a measurement date of June 30, 2021. At June 30, 2021, the System's proportion was 2.36 percent, an increase of 0.11 percent from its proportion measured as of June 30, 2020.

For the year ended June 30, 2022, the System recognized pension expense of \$4,355,792. As of June 30, 2022, the System reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	 ed Outflows of Resources	Deferred Inflows of Resources		
Differences between expected and actual experience	\$ 473,265	\$	(902,547)	
Changes of assumptions	4,421,253		-	
Net difference between projected and actual earning				
on pension plan investments	-		(12,147,898)	
Change in proportion applicable to the System	2,308,644		(104,348)	
System contributions subsequent to the				
measurement date	 5,510,229		-	
Total	\$ 12,713,391	\$	(13,154,793)	

Deferred outflows of resources in the amount of \$5,510,229 related to pensions resulting from System contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in future pension expense as follows:

Year ended June 30:
Measurement Date June 30 of Prior Year

2023	\$ (942,835)
2024	(1,032,389)
2025	(1,449,634)
2026	(2,526,773)
_	\$ (5,951,631)

(e) Actuarial Assumptions

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The reported total pension liability (TPL) calculation was based on participant data collected as of December 31, 2020 and an actuarial valuation as of June 30, 2021, using the entry age actuarial cost method with a measurement date of June 30, 2021. Significant actuarial assumptions used in the valuation include the following:

Actuarial Assumptions

Inflation	2.25%
Salary increases, including inflation	2.25% plus merit
Investment rate of return, net of plan investment expenses	6.75%
Projected period of unfunded benefit payments	None
Mortality	Health and Disabled Annuity PubG-2010
	Combined Mortality projected using MP-2020

The actuarial assumptions used in the June 30, 2021 valuation were based on the results of an actuarial experience study for the period July 1, 2015 to June 30, 2020.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense, and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of arithmetic real rates of return for each major asset class included in the ERS's target asset allocation as of June 30, 2021, are summarized below:

Asset Class	Long-Term Expected Real Rate of Return	Target Allocation*
US Leverage Cost	1.9%	-35.0%
Non-US Leverage Cost	1.1%	-26.0%
US Large-Cap Equity	7.7%	11.0%
US Small/Mid-Cap Equity	8.7%	3.0%
Non-US Developed Equity (USD Hedge)	8.3%	6.0%
Non-US Developed Small-Cap Equity	9.3%	3.0%
Emerging Market Equity	12.5%	3.0%
Global Equity	8.6%	5.0%
Private Equity - Growth	14.6%	1.0%
Private Equity - Venture	20.8%	1.0%
Private Equity	13.2%	2.0%
US TIPS	2.3%	16.0%
US Treasury Bond	2.1%	-3.0%
US Mortgage-Backed Securities	2.5%	2.0%
US High Yield Corporate Bond	5.7%	4.0%
Emerging Market External Debt	5.3%	4.0%
Emerging Market Local Currency Debt	6.0%	2.0%
Non-US Government Bond	2.2%	2.0%
Non-US Government Bond (USD Hedge)	2.0%	2.0%
Non-US Inflation-Linked Bond (USD Hedge)	1.3%	12.0%
Private Debt - Credit Opportunities	8.0%	6.0%
Private Debt - Distressed	8.8%	4.0%
Private Debt - Direct Lending	8.1%	1.0%
US Long-Term Treasury Bond (10-30 Year)	2.6%	5.0%
20+ Year US Treasury STRIPS	3.9%	3.0%
US High Yield Securitized Bond	5.1%	2.0%
US High Yield Collateralized Loan Obligation	6.3%	4.0%
10 Year US Treasury Bond	2.6%	8.0%
10 Year Non-US Government Bond (USD Hedge)	1.2%	18.0%
Commodity Futures	5.0%	7.0%
Public Real Assets (Multi-Asset)	6.0%	2.0%
US REIT	9.0%	5.0%
Gold	5.1%	3.0%
Core Real Estate	6.7%	1.0%
Private Real Assets - Infrastructure	7.4%	4.0%
Hedge Fund - Macro	5.1%	8.0%
Hedge Fund - Credit	5.8%	4.0%
Hedge Fund	5.6%	3.0%

Long-Term Expected Real Rate of Return/Target Allocation

*Target totals may exceed 100% due to futures and other derivatives

(f) Discount Rate

The discount rate used to measure the total pension liability was 6.75 percent. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that County contributions will be made according to the County's stated policy. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability. A schedule of funding progress can be found in the required supplementary information section of the report.

(g) Sensitivity of the System's Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the System's proportionate share of the net pension liability calculated using the discount rate of 6.75 percent, as well as what the System's share of the net pension liability would be if it were calculated using a discount rate that is one percentage point lower (5.75 percent) or one percentage point higher (7.75 percent) than the current rate:

	:	1% Decrease 5.75%	Cu	rrent Discount Rate 6.75%		1% Increase 7.75%
Total pension liability Plan fiduciary net position Net pension liability	\$ \$	167,719,660 (121,688,462) 46,031,198	\$ \$	149,675,476 (121,688,462) 27,987,014	\$ \$	134,574,068 (121,688,462) 12,885,606
Plan fiduciary net position as a percentage of the total pension liability		72.6%		81.3%		90.4%

Sensitivity of Net Pension Liability to Changes in Discount Rate

(h) Pension Plan Fiduciary Net Position

The retirement system is considered a part of the County's reporting entity, and the retirement system's financial statements are included in the County's basic financial statements as a trust fund.

Information concerning ERS as a whole, including the pension plan's fiduciary net position, is available in the County ACFR for the fiscal year ended June 30, 2022. Additionally, the ERS issues a publicly available annual financial report that includes financial statements and required supplementary information. That report may be obtained by writing to the Employees' Retirement System, 12015 Lee Jackson Memorial Highway, Suite 350, Fairfax, Virginia 22033, or by calling (703) 279-8200. The reports are also available at the following links:

ERS: https://www.fairfaxcounty.gov/retirement/financial-publications

County: https://www.fairfaxcounty.gov/finance/financialreporting/annualcomprehensivefinancialreport

(7) OTHER POSTEMPLOYMENT BENEFITS

The Fairfax County OPEB Plan (the OPEB Plan) is a single-employer defined benefit plan administered by the County, presented as a cost-sharing plan in the System's financial statements. The Plan provides eligible retirees and their spouses the opportunity to continue participation in medical, dental, vision, and life insurance benefits. The Plan benefits correspond with the benefits available to active employees. The benefit provisions of the Plan are established, and may be amended, by the Board. Fiduciary oversight of OPEB and deferred compensation is provided by the members of the Local Finance Board. The members of the Local Finance Board are the CFO/Director of Management and Budget, the Director of Finance, the Director of Human Resources, and the Executive Director of the Retirement Agency. The Plan does not issue a standalone financial report. Financial information about the Plan and its fiduciary net position is available in the County's ACFR, available online at the address stated above.

In order to participate in the Plan, an employee must meet retirement criteria for the ERS. The retiree must have the applicable benefit(s) in place as an active employee and must maintain continuous participation in the benefit plan into retirement. Upon retirement, the County no longer contributes to the benefit premium payments of the participant and the participant becomes responsible for 100 percent of the applicable premiums, less any applicable subsidies.

Beginning in fiscal year 2006, the amount of monthly medical subsidy provided by the County is based on the participant's years of service, and ranges from \$30 per month to \$220 per month. Employees who retired prior to July 1, 2003 are eligible for the greater of the amount based on the current subsidy structure or the amount calculated based on the subsidy structure in place prior to July 2003. In addition, the Board has established a program to subsidize the continuation of term life insurance at reduced coverage amounts for retirees. Retirees generally pay for 50 percent of their coverage amount at age-banded premium rates, with the County incurring the balance of the cost. In order to receive these subsidies, retirees must be 55 years or older and have a minimum of five years of service credit. If participation in any of the benefit areas is discontinued, eligibility is lost, and a retiree may not re-enroll into the Plan's benefits. Consequently, all inactive employees are considered to be receiving benefits of the Plan.

Contributions to the Plan are made by appropriation from the Board, based on an actuarially determined amount. The employer contribution made during the measurement period of the liability was \$435,536. The System's contribution to the Plan for fiscal year 2022 was \$446,602. Plan members are not required to contribute to the OPEB trust fund.

(a) Actuarial Assumptions

The total OPEB liability was determined by an actuarial valuation as of June 30, 2020, rolled forward to June 30, 2021, using the following actuarial assumptions:

Actuarial cost method Asset valuation method Investment rate of return	Entry age normal Market value of assets 7.00%, net of OPEB plan investment expense, including inflation.
Retirement age	Varies by age and pension plan.
Mortality	Pub-2010, "General" classification, Employees & Healthy Annuitant mortality table, projected using scale MP-2020, sex-distinct. Disabled mortality table Pub-2010, "General" classification, Disabled Retirement mortality table, projected using scale MP-2020, sex distinct.
Healthcare cost trend rate	6.9% - 11.6%, decreasing to 4.5%

The actuarial assumptions used in the valuation were based on the results of an actuarial experience study for the period July 1, 2015 to June 30, 2020.

The long-term expected rate of return on OPEB plan investments was determined using a buildingblock method in which best-estimate ranges of expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the Plan's target allocations as of June 30, 2021, are as follows:

Asset Class	Long-Term Expected Real Rate of Return	Target Allocation
Domestic Equity (Large Cap)	6.30%	27.92%
Domestic Equity (Small Cap)	6.80%	11.61%
International Equity	7.00%	13.68%
Emerging Markets Equity	7.50%	5.59%
Long / Short Equity	6.40%	5.82%
Core US Fixed Income	2.50%	4.14%
Core Plus US Fixed Income	2.90%	14.47%
Absolute Return Fixed Income	2.00%	3.51%
Real Estate	5.50%	8.94%
Private Equity	8.70%	3.66%

Long-Term Real Expected Rate of Return/Target Allocation

There are no concentrations in any one organization that represents 5 percent or more of the fiduciary net position in the Plan. The Plan's funds are invested in domestic equity, international equity, and fixed income funds through the Virginia Pooled OPEB Trust Fund, established as the investment vehicle for participating employers. The County is not involved in the administration of these funds. Further information about the Virginia Pooled OPEB Trust Fund, sponsored by VML/VACo Finance, including financial statements, can be obtained by writing to VML/VACo Finance Program, 8 East Canal Street, Suite 100, Richmond, Virginia 23219.

(b) Discount Rate

The discount rate used to measure the total OPEB liability was 7.00 percent. The projection of cash flows used to determine the discount rate assumed OPEB plan member contributions will be made at the current contribution rate and that County contributions will be made at rates equal to the actuarially determined contribution rates. For this purpose, only employer contributions that are intended to fund benefits of current OPEB plan members and their beneficiaries are included. Projected County contributions that are intended to fund the service costs of future OPEB plan members and their beneficiaries, as well as projected contributions from future OPEB plan members, are not included. Based on these assumptions, the OPEB plan's fiduciary net position was projected to be available to make all projected future OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

(c) Net OPEB Asset

At June 30, 2022, the System reported an asset of (\$1,014,287) for its proportionate share of the net OPEB liability. The actuary calculated total OPEB (asset) liability was based on participant data collected as of June 30, 2020 and an actuarial valuation of the same date rolled forward to June 30, 2021, using the entry age actuarial cost method, with a measurement date of June 30, 2021. At June 30, 2021, the System's proportion was 2.41 percent, no change from its proportion measured as of June 30, 2020.

The net OPEB asset was measured as of June 30, 2021, and the total OPEB asset used to calculate the net OPEB asset was determined by an actuarial valuation as of that date. The System's net OPEB asset is determined by the System's proportionate share of the OPEB plan participation. The System's share of the net OPEB asset at June 30, 2022 is presented below:

Total OPEB liability Plan fiduciary net position (market value of assets) Net OPEB asset	\$ \$	9,201,615 (10,215,902) (1,014,287)
Plan fiduciary net position as a percentage of the OPEB liability		111.02%

(d) Sensitivity of the System's Proportionate Share of the Net OPEB Asset to Changes in the Discount Rate and Healthcare Trend Rate

The following presents the System's share of the net OPEB asset using the discount rate of 7.00 percent, as well as what the System's share of the net OPEB asset would be if the discount rate was one percentage point higher (8.00 percent) or one percentage point lower (6.00 percent) than the current rate:

	1% Decrease		Cur	rent Discount Rate	1% Increase			
		6.00%		7.00%		8.00%		
Total OPEB liability	\$	10,716,817	\$	9,201,615	\$	7,995,442		
Plan fiduciary net position		(10,215,902)		(10,215,902)		(10,215,902)		
Net OPEB (asset) liability	\$	500,915	\$	(1,014,287)	\$	(2,220,460)		

The following table on the next page presents the System's share of the net OPEB (asset) liability calculated using the current healthcare trend rates (4.50 percent), as well as what the System's share of the net OPEB (asset) liability would be with healthcare trend rates at one percentage point lower (ultimate rate decreasing to 3.50 percent) or one percentage point higher (ultimate rate increasing to 5.50 percent) than the current rates:

	1% Decrease (Varied decreasing to		Cur	rent Discount Rate	1% Increase			
			(Varie	ed decreasing to	(Varied decreasing to			
		3.50%)		4.50%)		5.50%)		
Total OPEB liability	\$	7,671,788	\$	9,201,615	\$	11,169,950		
Plan fiduciary net position		(10,215,902)		(10,215,902)		(10,215,902)		
Net OPEB (asset) liability	\$	(2,544,114)	\$	(1,014,287)	\$	954,048		

Sensitivity of Net OPEB (Asset) Liability to Changes in Healthcare Trend Rate

(e) OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the year ended June 30, 2022, the System recognized OPEB expense of (\$562,364). As of June 30, 2022, the System reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	 ed Outflows of esources	Deferred Inflows of Resources			
Differences between expected and actual experience	\$ 740,135	\$	(147,641)		
Changes of assumptions Net difference between projected and actual earning	1,377,343		(2,802,362)		
on OPEB plan investments	-		(1,223,235)		
Change in proportion applicable to the System System contributions subsequent to the	-		(12,803)		
measurement date	 446,602		-		
Total	\$ 2,564,080	\$	(4,186,041)		

Deferred outflow of resources in the amount of \$446,602, reported above as System contributions subsequent to the measurement date, will be recognized as a reduction of the net OPEB liability in the fiscal year ending June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

> Year ended June 30: Measurement Date June 30 of Prior Year

2023	\$ (382,684)
2024	(351,242)
2025	(365,101)
2026	(454,670)
2027	(285,462)
Thereafter	(229,404)
	\$ (2,068,563)

(8) LONG-TERM LIABILITIES

The following is a summary of the changes in the System's long-term liabilities for the fiscal year ended June 30, 2022:

	Balances	_	_	Balances	Current
	June 30, 2021	Increases	Decreases	June 30, 2022	Portions
Compensated absences	\$ 3,189,988	\$ 1,780,431	\$ (1,818,574)	\$ 3,151,845	\$ 1,610,874
Sewer revenue bonds - Series 2012	2,055,000	-	(2,055,000)	-	-
Sewer revenue refunding bonds - Series 2014	40,405,000	-	(4,255,000)	36,150,000	4,485,000
Sewer revenue refunding bonds - 2016A Series	160,635,000	-	(3,950,000)	156,685,000	6,290,000
Sewer revenue bonds - Series 2017	81,640,000	-	(1,485,000)	80,155,000	1,545,000
Sewer revenue bonds - Series 2021A	191,990,000	-	-	191,990,000	-
Sewer revenue refunding bonds - Series 2021B	24,210,000	-	-	24,210,000	-
Premium on sewer revenue refunding bonds (net)	93,133,389	-	(4,336,830)	88,796,559	4,005,655
Subordinated revenue bonds - EDA2021A	-	20,055,000	-	20,055,000	605,000
Premium on EDA S2021A revenue bonds (net)	-	5,045,076	(168,169)	4,876,907	252,254
Subordinated revenue bonds - VRA2002	3,253,412	-	(3,253,412)	-	-
Subordinated UOSA revenue bonds	238,023,361	-	(17,128,638)	220,894,723	15,443,181
Net pension liability	41,009,432	20,262,729	(33,285,147)	27,987,014	-
Net OPEB (asset) liability	420,338	1,392,443	(1,812,781)	-	
	\$ 879,964,920	\$ 48,535,679	\$ (73,548,551)	\$ 854,952,048	\$ 34,236,964

(a) Sewer Revenue Bonds

The System issues bonds under the 1985 General Bond Resolution (the Resolution) adopted by the County Board. The Resolution includes a rate covenant under which the System agrees to charge reasonable rates for the use of services rendered by the System. Furthermore, the System will adjust the rates from time to time in order to generate net revenues sufficient to provide an amount equal to 100 percent of its annual principal and interest requirements, as well as the System's annual commitments to fund its proportionate share of other jurisdictions' debt service requirements. Pursuant to the Resolution, the System is required to maintain a reserve equal to the lesser of (i) the maximum principal and interest for any bond year or (ii) 125 percent of the average annual principal and interest for any bond year. In the opinion of the System's management, the System is in compliance with all Resolution covenants. Payment of the principal and interest on all Sewer revenue bonds is secured by a pledge of gross revenues derived from the System after provisions for payment of the operating expenses of the System. The bonds do not constitute general obligations of the County and authorization to issue any additional debt rests with the Board. In addition, the System is required to adhere to and is in compliance with the rebate and reporting requirements of the federal regulations pertaining to arbitrage.

On October 14, 2004, the System issued \$94,005,000 of sewer revenue refunding bonds (Series 2004), with an average interest rate of 4.61 percent, to advance refund \$91,430,000 of the outstanding Series 1996 bonds with an average interest rate of 5.82 percent. The net proceeds were used to redeem the Series 1996 bonds on July 15, 2006.

On August 8, 2012, the System issued \$90,710,000 of sewer revenue bonds (Series 2012), with an average interest rate of 4.53 percent, to fund upgrade costs allocable to the System at certain treatment facilities that are owned by or that provide service to the County, the purchase of additional capacity at certain wastewater treatment facilities for the benefit of the County, and the costs of certain additions, extensions, and improvements to the County's sewage collection, treatment, and disposal systems.

On April 16, 2014, the System issued \$61,755,000 of sewer revenue refunding bonds (Series 2014), with an average interest rate of 4.14 percent, to refund \$69,745,000 of the outstanding Series 2004 bonds with an average interest rate of 4.61 percent. The net proceeds were used to redeem the Series 2004 bonds on July 15, 2014. This refunding resulted in a deferred net loss of \$4,045,945, which is being amortized over 15 years, but an aggregate decrease in the overall debt service of \$15,461,166.

On May 12, 2016, the System issued \$164,450,000 of sewer revenue refunding bonds (Series 2016A), with a weighted average rate of 3.92 percent, to advance refund \$123,065,000 of the outstanding Series 2009 bonds with an average interest rate of 4.80 percent and \$46,720,000 of the outstanding Series 2012 bond with an average interest rate of 4.67 percent. This refunding resulted in a deferred net loss of \$12,406,377, which is being amortized over 24 years, and a remaining outstanding balance of \$13,400,000 unrefunded Series 2009 bonds and \$39,545,000 unrefunded Series 2012 bonds. This refunding resulted in an aggregate decrease in the overall debt service of \$35,116,418.

On June 28, 2017, the System issued \$85,785,000 of sewer revenue bonds (Series 2017), with an average interest rate of 4.77 percent, to fund certain additions, extensions, and improvements to the County's sewage collection, treatment, and disposal systems, capital improvement costs allocable to the County at certain wastewater treatment facilities that provide service to the County, the purchase of any necessary additional capacity at certain wastewater treatment facilities for the benefit of the County, the costs of issuing the Series 2017 bonds, and the necessary deposit to the reserve subfund.

On June 9, 2021, the System issued \$191,990,000 of Sewer Revenue Bonds (Series 2021A), with an average interest rate of 4.66 percent to pay the costs of certain additions, extensions and improvements to the County's sewage collection, treatment and disposal systems, pay for capital improvement costs allocable to the County at certain wastewater treatment facilities that provide service to the County and, if necessary, purchase additional capacity at certain wastewater treatment facilities for the benefit of the County, the costs of issuing the Series 2021A bonds, and the necessary deposit to the reserve subfund.

On June 9, 2021, the System took advantage of lower market interest rates and issued \$24,210,000 of Sewer Revenue Refunding Bonds (Series 2021B), with an average interest rate of 3.67 percent to refund \$28,625,000 of the outstanding Series 2012 Bonds with an average interest rate of 4.50 percent. The net proceeds were used to redeem the Series 2012 bonds on July 15, 2021. This refunding resulted in a deferred net gain of \$3,969,019, which is being amortized over 21 years, and an aggregate decrease in the overall debt service of \$11,937,848.

The outstanding bonds as of June 30, 2022, consist of \$36,150,000 of Series 2014 revenue refunding bonds, \$156,685,000 of Series 2016A revenue refunding bonds, \$80,155,000 of Series 2017 revenue bonds, \$191,990,000 of Series 2021A revenue bonds, and \$24,210,000 of Series 2021B revenue refunding bonds that bear interest at varying rates and mature in varying amounts. The bond principal and interest payment schedule details are as follows, found on the next page:

				Series 2014					5	Series 2016A						Series 2017		
Fiscal Year		Principal		Interest		Total		Principal		Interest		Total		Principal		Interest		Total
2023	\$	4,485,000	\$	1,313,375	\$	5,798,375	\$	6,290,000	\$	6,267,481	\$	12,557,481	\$	1,545,000	\$	3,961,400	\$	5,506,400
2024	Ŧ	4,735,000	Ŧ	1,082,875	Ŧ	5,817,875	Ŧ	6,615,000	Ŧ	5,944,856	Ŧ	12,559,856	Ŧ	1,620,000	Ŷ	3,890,000	Ÿ	5,510,000
2025		4,995,000		839,625		5,834,625		6,950,000		5,605,731		12,555,731		1,700,000		3,807,000		5,507,000
2026		5,205,000		636,675		5,841,675		7,310,000		5,249,231		12,559,231		1,790,000		3,719,750		5,509,750
2027		5,390,000		477,750		5,867,750		7,685,000		4,874,356		12,559,356		1,880,000		3,628,000		5,508,000
2028-2032		11,340,000		400,400		11,740,400		43,695,000		19,089,030		62,784,030		10,950,000		16,591,000		27,541,000
2033-2037		-		-		-		49,590,000		9,144,978		58,734,978		14,065,000		13,479,375		27,544,375
2038-2042		-		-		-		28,550,000		1,601,450		30,151,450		18,050,000		9,485,000		27,535,000
2043-2047		-		-		-		-		-		-		23,180,000		4,356,750		27,536,750
2048		-		-		-		-		-		-		5,375,000		134,375		5,509,375
Total	\$	36,150,000	\$	4,750,700	\$	40,900,700	\$	156,685,000	\$	57,777,113	\$	214,462,113	\$	80,155,000	\$	63,052,650	\$	143,207,650
			5	Series 2021A					5	Series 2021B								
Fiscal																		
Year		Principal		Interest		Total		Principal		Interest		Total						
2023	\$	-	\$	8,725,350	\$	8,725,350	\$	-	\$	895,650	\$	895,650						
2024		3,130,000		8,647,100		11,777,100				895,650								
2025		3,290,000										895,650						
2026				8,486,600		11,776,600		-		895,650		895,650						
		3,460,000		8,317,850		11,776,600 11,777,850		-		895,650 895,650		895,650 895,650						
2027		3,640,000		8,317,850 8,140,350		11,776,600 11,777,850 11,780,350		-		895,650 895,650 895,650		895,650 895,650 895,650						
2028-2032		3,640,000 21,185,000		8,317,850 8,140,350 37,704,375		11,776,600 11,777,850 11,780,350 58,889,375		- - -		895,650 895,650 895,650 4,478,250		895,650 895,650 895,650 4,478,250						
2028-2032 2033-2037		3,640,000 21,185,000 27,205,000		8,317,850 8,140,350 37,704,375 31,685,875		11,776,600 11,777,850 11,780,350 58,889,375 58,890,875		3,585,000		895,650 895,650 895,650 4,478,250 4,424,475		895,650 895,650 895,650 4,478,250 8,009,475						
2028-2032 2033-2037 2038-2042		3,640,000 21,185,000 27,205,000 34,035,000		8,317,850 8,140,350 37,704,375 31,685,875 24,854,350		11,776,600 11,777,850 11,780,350 58,889,375 58,890,875 58,889,350		16,080,000		895,650 895,650 4,478,250 4,424,475 2,567,750		895,650 895,650 4,478,250 8,009,475 18,647,750						
2028-2032 2033-2037 2038-2042 2043-2047		3,640,000 21,185,000 27,205,000 34,035,000 42,665,000		8,317,850 8,140,350 37,704,375 31,685,875 24,854,350 16,222,875		11,776,600 11,777,850 11,780,350 58,889,375 58,890,875 58,889,350 58,887,875				895,650 895,650 895,650 4,478,250 4,424,475		895,650 895,650 895,650 4,478,250 8,009,475						
2028-2032 2033-2037 2038-2042		3,640,000 21,185,000 27,205,000 34,035,000		8,317,850 8,140,350 37,704,375 31,685,875 24,854,350		11,776,600 11,777,850 11,780,350 58,889,375 58,890,875 58,889,350		16,080,000		895,650 895,650 4,478,250 4,424,475 2,567,750		895,650 895,650 895,650 4,478,250 8,009,475 18,647,750						

Per the bond agreements, upon the occurrence of any event of default, Trustees may proceed to protect and enforce its rights and rights of the Bond Holders under the laws of the Commonwealth or the General Bond Resolution or by proceedings in the office of any board having jurisdiction, either for the specific performance of any agreement or for the enforcement of any proper legal or equitable remedy. In the enforcement of any remedy under the General Bond Resolution, the Trustee or the Bond Holders will be entitled to sue for, enforce payment of amounts remaining due for principal, interest, interest on overdue payments of principal, all costs and expenses of collection and all proceedings under the General Bond Resolution. The acceleration clause allows the lender, upon default, to accelerate payment of the entire unpaid Bond principal and interest.

(b) Economic Development Authority Bonds

On November 23, 2021, the Fairfax County Economic Development Authority (EDA) issued \$74,605,000 of Fairfax County Facilities Revenue Bonds Series 2021A, with an average interest rate of 4.60 percent, to fund the costs of construction of a joint Stormwater/Wastewater facility to be used to consolidate the functions and operations of Fairfax County's Stormwater and Wastewater divisions (the "2021 Public Works Project") and to pay the issuance costs of the Series 2021A bonds. Of the total par value in the amount of \$74,605,000, Stormwater's component share is \$54,550,000, while Wastewater's component share is \$20,055,000.

Fiscal Year		Principal		Interest		Total
2023	\$	605,000	\$	933,375	\$	1,538,375
2024	Ψ	635,000	Ψ	902,375	Ψ	1,537,375
2025		670,000		869,750		1,539,750
2026		700,000		835,500		1,535,500
2027		735,000		799,625		1,534,625
2028-2032		4,290,000		3,391,250		7,681,250
2033-2037		5,505,000		2,178,675		7,683,675
2038-2042		6,915,000		770,850		7,685,850
Total	\$	20,055,000	\$	10,681,400	\$	30,736,400

(c) Subordinated Sewer Revenue Bonds

In June 2002, the System issued 20-year subordinated sewer revenue bonds in the amount of \$50,000,000 (Series VRA 2002) to the Virginia Water Facilities Revolving Fund, acting by and through the Virginia Resources Authority (VRA). The proceeds have been used to fund a portion of the System's share of the expansion and upgrade costs of the Alexandria Renew Enterprises' wastewater treatment facilities, which provide service to certain County residents. In September 2012, the System executed a rate reduction agreement with VRA, reducing the interest rates on the VRA 2002 bonds from 3.75 percent per annum to 2.35 percent per annum. This reduced the required semi-annual debt service payments from \$1,818,894 to \$1,706,099. This rate reduction agreement resulted in an aggregate decrease in the VRA 2002 bond debt service of \$2,143,099.

In May 2016, the System executed a rate reduction agreement with VRA, reducing the interest rate of the VRA 2002 bonds from 2.35 percent per annum to 0.95 percent per annum. This reduced the semi-annual debt service payments from \$1,706,099 to \$1,638,306. This rate reduction resulted in an aggregate decrease in the VRA 2002 bond debt service of \$813,525. This bond is subordinate to all outstanding prior bond issues of the System and payments for operation and maintenance expenses. In February 2022, the VRA 2002 subordinated sewer revenue bonds reached final maturity.

Per the bond agreements, upon the occurrence of any event of default, VRA has the right to immediately declare all outstanding bond payments due and payable by the System without further notice or demand and is authorized to take legal action necessary to collect the payments owed.

(d) Upper Occoquan Service Authority (UOSA) Debt

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In December 2003, UOSA issued \$58,150,000 of regional sewer system revenue refunding bonds (UOSA 2003), of which the System's share is \$36,848,116, to advance refund the outstanding UOSA 1993 bonds. This refunding resulted in a deferred net gain of \$1,514,494, which is being amortized over the life of the UOSA 2003 bonds.

In July 2005, UOSA issued \$82,465,000 of regional sewer system revenue refunding bonds (UOSA 2005), of which the System's share is \$53,201,198, to advance refund another portion of the outstanding UOSA 1995 bonds. This refunding resulted in a deferred net gain of \$1,909,604, which is being amortized over the life of the UOSA 2005 bonds.

In February 2007, UOSA issued \$90,315,000 of regional sewer system revenue refunding bonds (UOSA 2007A), of which the System's share is \$58,265,521, to advance refund another portion of the outstanding UOSA 1995 bonds. This refunding resulted in a deferred net loss of \$83,868, which is being amortized over the life of the UOSA 2007A bonds.

In December 2007, UOSA issued \$119,715,000 of regional sewer system revenue bonds (UOSA 2007B), of which the System's share is \$53,925,458, to fund the expansion of its wastewater treatment and conveyance facilities.

In December 2010, UOSA issued \$85,180,000 of regional sewer system revenue bonds (UOSA 2010), of which the System's share is \$34,113,615, to fund certain capital improvements.

In July 2011, UOSA entered into VRA loan Series 2011A to fund costs related to the Energy Service (ESCO) project. In December 2011, UOSA entered into VRA loan Series 2011B to fund Phase 1 of the Nutrient Compliance Improvement Project (P1NR).

In May 2013, UOSA issued \$101,615,000 of regional sewer system revenue refunding bonds (UOSA 2013A), of which the System's share is \$65,555,566, to advance refund the outstanding UOSA 2005 bonds. This refunding resulted in a deferred net loss of \$12,354,368, which is being amortized over the life of the UOSA 2013A bonds, but an aggregate decrease in the overall debt service of approximately \$4.9 million.

In November 2013, UOSA issued \$37,735,000 of regional sewer system revenue refunding bonds (UOSA 2013B), of which the System's share is \$23,911,671, to advance refund the outstanding UOSA 2003 bonds. This refunding resulted in a deferred net loss of \$2,520,436, which is being amortized over the life of the UOSA 2013B bonds, but an aggregate decrease in the overall debt service of approximately \$2.1 million. In fiscal year 2022, the UOSA 2013B bonds reached final maturity.

In fiscal year 2015, UOSA issued regional sewer system revenue refunding bonds (UOSA 2014) to advance refund the outstanding UOSA 2007A bonds and a portion of the outstanding UOSA 2007B bonds. Of the \$112,190,980 UOSA 2007 bonds outstanding balance, \$93,175,291 was refunded into the UOSA 2014 bonds. This resulted in a deferred net gain of \$2,029,199, which is being amortized over 24 years, and an aggregate decrease in the overall debt service of \$6,359,186.

In fiscal year 2016, UOSA issued regional sewer system revenue refunding bonds (UOSA 2016B) to advance refund the \$19,015,689 remaining outstanding UOSA 2007B bonds. This refunding resulted in a deferred net gain of \$533,782, which is being amortized over 22 years, and an aggregate decrease in the overall debt service of \$4,676,694.

In December 2019, UOSA issued \$52,440,000 of regional sewer system revenue bonds (UOSA 2019), of which the System's share is \$21,410,631, to fund improvements to UOSA's regional advanced wastewater treatment system.

In November 2020, UOSA issued \$199,755,000 of regional sewer system revenue refunding bonds (UOSA 2020), of which the System's share is \$111,228,596, to advance refund the \$91,146,092 remaining outstanding UOSA 2014 bonds. This refunding resulted in a deferred net loss of \$19,939,089, which is being amortized over 20 years, but an aggregate decrease in the overall debt service of \$2,594,724.

The System's share of UOSA's total outstanding debt as of June 30, 2022 is \$220,894,723 and it is subordinate to the sewer revenue bonds issued by the System. The System's share of outstanding UOSA regional sewer system revenue and refunding bonds as of June 30, 2022 is as follows:

	UOSA									
Fiscal Year		Principal		Interest		Total				
2023	\$	15,443,181	\$	5,144,383	\$	20,587,564				
2024		15,789,046		4,799,013		20,588,059				
2025		16,173,163		4,417,238		20,590,401				
2026		23,735,131		4,009,294		27,744,425				
2027		17,618,841		3,576,273		21,195,114				
2028-2032		55,071,382		14,394,976		69,466,358				
2033-2037		33,381,072		10,247,120		43,628,192				
2038-2042		32,342,245		4,444,552		36,786,797				
2043-2047		6,302,386		1,231,074		7,533,460				
2048-2052		5,038,276		462,325		5,500,601				
Total	\$	220,894,723	\$	52,726,248	\$	273,620,971				

Per the bond agreements, upon the occurrence of any event of default, bondholders have the right to direct the method and place of conducting all proceedings to be taken in connection with the enforcement of the terms and conditions of the Trust Agreement. Bondholders do not have the right to institute any suit, action, or proceeding in equity or at law for enforcement of the Trust Agreement for the execution trust unless the specific terms of the bond agreement are met. Nothing in the Trust Agreement shall affect or impair the right of any bondholder to enforce legal action for payment of the principal, premium, and interest upon maturity of the bond.

(9) COMMITMENTS AND CONTINGENCIES

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(a) Cost Sharing Agreement with Alexandria Renew Enterprises (AlexRenew)

The System is obligated under an agreement with AlexRenew to share in the construction and operating costs and debt service requirements for AlexRenew's sewage treatment facility. Currently, the System has a capacity entitlement of 32.4 MGD, which is 60 percent of the facility's total capacity of 54.0 MGD. Although the System is allowed one nonvoting representative at the meetings of AlexRenew, the System has no significant influence in the management of the treatment facility. In addition, the System has no direct ongoing equity interest in the assets or liabilities of AlexRenew. Accordingly, the System does not account for this commitment as a joint venture.

A new construction program to build enhanced nutrient removal facilities has been initiated. The System paid AlexRenew \$11,282,386 for purchased capacity in fiscal year 2022 to fund its share of the construction and land acquisition costs. The System estimates its share of the remaining construction costs to be \$138,475,000, of which \$19,356,000 is expected to be incurred in fiscal year 2023 and the remaining balance over fiscal years 2024 to 2031. In addition, the System made total payments of \$10,785,305 to AlexRenew during fiscal year 2022 for its share of AlexRenew's operating costs.

(b) Cost Sharing Agreement with the District of Columbia (District)

The System is obligated under the 2012 Blue Plains Intermunicipal Agreement (2012 IMA), which replaced the 1985 IMA, between the County, the District, the District of Columbia Water and Sewer Authority (DC Water), Montgomery County in Maryland, Prince George's County in Maryland, and the Washington Suburban Sanitary Commission, to share the construction and operating costs of the Blue Plains Wastewater Treatment Plant, which is operated by DC Water. Currently, the System has a capacity entitlement of 31.0 MGD, which is approximately 8.4 percent of the Plant's total capacity of 370.0 MGD. DC Water has a Board of Directors comprised of six members from the District, two each from Montgomery and Prince George's Counties, and one from the County. The System has no significant control over plant operations and construction and no ownership interest in the assets of DC Water. Accordingly, the System does not account for this commitment as a joint venture.

The Blue Plains Plant is currently undergoing a major renovation of its nitrogen removal facilities and the construction of new wet weather flow facilities. The System paid DC Water \$9,081,367 for purchased capacity in fiscal year 2022 to fund its share of construction costs. The System estimates its share of the remaining construction costs to be \$231,654,000, of which \$20,693,000 is expected to be incurred in fiscal year 2023, and the remaining balance over fiscal years 2024 to 2031. In addition, the System made total payments of \$13,788,885 to DC Water during fiscal year 2022 for its share of the Blue Plains Plant's operating costs.

(c) Joint Venture – Upper Occoquan Service Authority (UOSA)

UOSA is a joint venture created under the provisions of the Virginia Water and Waste Authorities Act on March 3, 1971 by a concurrent resolution of the governing bodies of the County, Prince William County, the City of Manassas, and the City of Manassas Park to finance, construct, and operate a regional sewage treatment facility. Currently, the System has a capacity entitlement of 22.1 MGD, which is 41 percent of the facility's total capacity of 54.0 MGD. The governing body of UOSA is an eight-member board of directors consisting of two members from each participating jurisdiction, appointed to four-year terms. The UOSA Board of Directors adopts an annual operating budget based on projected sewage flows.

The County has no explicit and measurable interest in UOSA, but does have an ongoing financial responsibility for its share of UOSA's construction costs, operating costs, and annual debt service. There are no ongoing construction costs for UOSA and the System did not purchase capacity from UOSA in fiscal year 2021. In addition, the System made total payments to UOSA of \$13,846,223 in fiscal year 2022 to pay its share of UOSA's operating costs

Summarized UOSA financial information as of and for the year ended June 30, 2021, the most recent available audited financial information, is shown below:

2021

	2021
Total assets	\$ 545,139,317
Deferred outflows of resources	30,108,454
Total liabilities	(546,755,430)
Deferred inflows of resources	 (1,214,477)
Net position	\$ 27,277,864
Operating revenues Operating expenses Nonoperating revenues and expenses, net Capital contributions	\$ 32,486,897 (62,531,610) (4,852,451) 21,107,329
Decrease in net position	\$ (13,789,835)
-	

The complete financial statements for UOSA can be obtained by writing to UOSA at 14631 Compton Road, Centreville, Virginia 20121 or by accessing UOSA's website.

(d) Cost Sharing Agreement with Arlington County, Virginia (Arlington)

The System is obligated under the 1989 Sewage Conveyance Treatment and Disposal Agreement with Arlington to share the construction and operating costs of the sewage treatment facility owned and operated by Arlington. Currently, the System has a capacity entitlement of 3.0 MGD, which is 7.5 percent of the facility's total capacity of 40.0 MGD. The System has no direct ongoing equity interest in the facility's assets and liabilities. Furthermore, the System has no significant influence in the management of Arlington's treatment facility. Accordingly, the System does not account for this commitment as a joint venture.

The Arlington facility has recently completed a major upgrade to meet new water quality standards. The System paid Arlington \$374,164 for purchased capacity in fiscal year 2022 to fund its share of construction costs. The System estimates its share of the remaining construction costs to be \$15,602,000, of which \$1,970,000 is expected to be incurred in fiscal year 2023 and the remaining balance over fiscal years 2024 to 2031. In addition, the System made total payments of \$2,045,814 to Arlington during fiscal year 2022 for its share of Arlington's operating costs.

(e) Cost Sharing Agreement with Loudoun County, Virginia, Sanitation Authority (Loudoun Water)

The System is obligated under the Broad Run Water Reclamation Facility Capacity Agreement with Loudoun Water to share the construction and operating costs and debt service requirements of the sewage treatment facility owned and operated by Loudoun Water. Currently, the System has a capacity entitlement of 1.0 MGD, which is 9.0 percent of the facility's total capacity of 11.0 MGD. The System has no direct ongoing interest in the facility's assets and liabilities. Furthermore, the System has no significant influence in the management of Loudoun Water's treatment facility. Accordingly, the System does not account for this commitment as a joint venture.

The System will incur operating costs once it starts to deliver flows to Loudoun Water's facilities, which has not happened to date and is not expected to start in fiscal year 2023. The Broad Run Plant is a new facility; therefore, no construction or debt service requirements are expected in the near future.

(f) Other Commitments

As of June 30, 2022, the System had contractual commitments, excluding the above noted AlexRenew, District, UOSA, Arlington, and Loudoun Water contractual commitments, of \$65,171,935 for the construction of various sewer projects.

(g) Other Contingencies

The System is contingently liable with respect to lawsuits and other claims which arise in the ordinary course of its operations. It is the opinion of the management of the System and the County, as well as the County Attorney, that any losses which may ultimately be incurred as a result of those lawsuits and claims will not be material to the System's financial statements.

(10) RISK MANAGEMENT

The System is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees and citizens; and natural disasters. For all of these risks, the System participates in the County's insurance program, which includes self-insurance and the purchase of certain commercial insurance policies. The System is charged by the County for costs associated with workers' compensation, vehicle and general liability risks, and the costs associated with other risks borne by the County. There were no claims settlements in excess of insurance coverage in any of the past three fiscal years. Information regarding the County's insurance program is available in the County's ACFR for the fiscal year ended June 30, 2022.

(11) IMPLEMENTATION OF NEW ACCOUNTING PRONOUNCEMENTS

In fiscal year 2022, the System implemented the following standard, which had no material impact on the System's financial statements:

GASB Statement No. 87, Leases

This Statement establishes standards of accounting and financial reporting for leases by lessees and lessors.

GASB Statement No. 92, Omnibus 2020

This Statement enhances comparability in accounting and financial reporting and improves the consistency of authoritative literature by addressing practice issues that have been identified during implementation and application of certain GASB Statements. This Statement addresses a variety of topics.

GASB Statement No. 93, Replacement of Interbank Offered Rates

This Statement establishes accounting and financial reporting requirements related to the replacement of Interbank Offered Rates in hedging derivative instruments and leases.

GASB Statement No. 97, Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans

This Statement improves consistency in the financial reporting of defined contribution pension plans, defined contribution OPEB plans, and other employee benefit plans, while mitigating the costs associated with reporting those plans. The requirements also will enhance the relevance, consistency, and comparability of (1) the information related to Section 457 plans that meet the definition of a pension plan and the benefits provided through those plans and (2) investment information for all Section 457 plans.







INTEGRATED SEWER SYSTEM · COUNTY OF FAIRFAX, VIRGINIA REQUIRED SUPPLEMENTARY INFORMATION (*unaudited*)

1.0 SUPPLEMENTAL PENSION INFORMATION

Tables indicating the System's proportionate share of the net pension liability and a schedule of the System's contributions to the pension plan.

TABLE 1.1

Schedule of the Proportionate Share of the Net Pension Liability ERS Pension Plan

Last Ten Fiscal Years*

	 2022	2021	2020	2019
System's proportion of the net pension liability	2.3646%	2.2545%	2.1775%	2.1448%
System's proportion share of the net pension liability	\$ 27,987,014 \$	41,009,432 \$	36,801,215 \$	35,395,232
System's covered payroll	19,004,173	18,667,714	16,926,367	15,992,847
System's proportionate share of the net pension liability				
as a percentage of its covered payroll	147.30%	219.68%	217.42%	221.32%
Plan fiduciary net position as a percentage of the total				
pension liability	81.30%	69,50%	70.80%	70.50%

	 2018	2017	2016	2015
System's proportion of the net pension liability	2.1835%	2.1338%	2.0718%	2.1040%
System's proportion share of the net pension liability	\$ 35,335,899 \$	32,568,322 \$	26,649,164 \$	21,919,467
System's covered payroll	15,952,731	15,115,867	14,239,466	14,130,410
System's proportionate share of the net pension liability				
as a percentage of its covered payroll	221.50%	215.46%	187.15%	155.12%
Plan fiduciary net position as a percentage of the total				
pension liability	69.90%	70.20%	74.20%	78.30%

The amounts presented for each fiscal year were determined as of June 30, year shown is fiscal year of presentation.

*This schedule is intended to show information for 10 years. 2015 is the first year implemented, additional years will be displayed as they become available.

Unaudited - see accompanying report of independent auditor

TABLE 1.2

Schedule of Pension Contributions ERS Pension Plan Last Ten Fiscal Years*

	-	Actuarial Determined	Contributions in Relations to the Actuarial	Contribution	C	tomala Causanad	Contributions as a
	-	ontribution	Determined Contribution	Contribution Deficiency (Excess)	Sys	tem's Covered Payroll	Percentage of Covered Pavroll
2022	\$	5,510,229	\$ 5,510,229	\$ -	\$	19,079,737	28.88 %
2021	Ŧ	5,387,683	5,387,683	-	т	19,004,173	28.35
2020		5,292,297	5,292,297	-		18,667,714	28.35
2019		4,593,816	4,593,816	-		16,926,367	27.14
2018		4,044,590	4,044,590	-		15,992,847	25.29
2017		3,653,175	3,653,175	-		15,952,731	22.90
2016		3,323,979	3,323,979	-		15,115,867	21.99
2015		2,869,250	2,869,250	-		14,239,466	20.15
2014		2,727,132	2,727,132	-		14,130,410	19.30

*This schedule is intended to show information for 10 years. 2015 is the first year implemented, additional years will be displayed as they become available.

Unaudited - see accompanying report of independent auditor

2.0 SUPPLEMENTAL OPEB INFORMATION

Tables indicating the System's proportionate share of the total OPEB liability, the net OPEB liability, and a schedule of the System's contributions to the OPEB plan.

TABLE 2.1

Schedule of the Proportionate Share of the Net OPEB (Asset) Liability **OPEB** Plan Last Ten Fiscal Years*

	2022	2021	2020	2019	2018
System's proportion of the net OPEB liability	2.4100 %	2.4100 %	2.3800 %	2.4100 %	2.4305 %
System's proportionate share of the net OPEB (asset) liability	\$ (1,014,287)	\$ 420,338	\$ 3,455,612	\$ 2,223,715	\$ 1,039,781
System's covered employee payroll	24,753,206	23,173,524	22,199,783	21,706,117	22,072,644
System's proportionate share of the net OPEB (asset) liability					
as a percentage of covered employee payroll	(4.10) %	1.81 %	15.57 %	10.24 %	4.71 %
Plan fiduciary net position as a percentage of the total					
OPEB (asset) liability	111.02 %	94.99 %	69.11 %	76.97 %	86.73 %

The amounts presented for each fiscal year were determined as of June 30, year shown is fiscal year of presentation.

*This schedule is intended to show information for 10 years. FY2018 is the first year implemented, additional years will be displayed as they become available.

Unaudited - see accompanying report of independent auditor

TABLE 2.2

Schedule of OPEB Contributions **OPEB** Plan Last Ten Fiscal Years* (

Dollar amounts	in	thousands)
----------------	----	------------

	2022		2021		2020
Actuarially determined contribution	\$ 279	\$	455	\$	391
Contributions made in relation to the actuarially determined contribution	447		436		474
Contribution deficiency (excess)	(168)		19		(83)
Covered employee payroll	24,148		24,753		23,174
Contributions as a percentage of covered employee payroll	1.85 9	<i>/</i> o	1.76 0	%	2.05 %

	2019		2018		2017
ctuarially determined contribution	\$ 543	\$	516	\$	493
Contributions made in relation to the actuarially determined contribution	611		580		680
Contribution deficiency (excess)	(68)		(64)		(187)
Covered employee payroll	22,200		21,706		22,073
Contributions as a percentage of covered employee payroll	2.75 %	6	2.67 %	6	3.08 %

*This schedule is intended to show information for 10 years. FY2018 is the first year implemented. Additional years will be displayed as they become available.

Unaudited - see accompanying report of independent auditor







INTEGRATED SEWER SYSTEM · COUNTY OF FAIRFAX, VIRGINIA STATISTICAL SECTION (unaudited)

1.0 FINANCIAL TRENDS

Financial trend information is intended to assist users in understanding how the System's financial position has changed over time. There are four tables presented in this section.

TABLE 1.1 - NET POSITION BY COMPONENT (a) - LAST TEN FISCAL YEARS

	Fiscal Year										
	2022	2021	2020	2019	2018						
Net investment in capital assets	\$ 1,181,439,831	\$ 1,207,780,108	\$ 1,112,420,058	\$ 1,065,086,054	\$1,038,360,082						
Restricted	48,522,726	17,941,505	20,281,937	19,398,343	18,178,132						
Unrestricted	148,116,348	98,648,390	133,460,268	119,690,633	99,372,962						
Total net position	\$ 1,378,078,905	\$ 1,324,370,003	\$ 1,266,162,263	\$ 1,204,175,030	\$1,155,911,176						

	Fiscal Year										
	Restated (a)					R	lestated (a)				
	2017		2016		2015		2014		2013		
Net investment in capital assets	\$ 1,003,960,254	\$	940,641,576	\$	892,414,328	\$	843,276,715	\$	778,825,722		
Restricted	14,185,711		73,853,503		66,038,662		43,116,468		44,113,954		
Unrestricted	90,123,639		38,417,623		66,651,531		100,358,086		147,119,567		
Total net position	\$ 1,108,269,604	\$	1,052,912,702	\$	1,025,104,521	\$	986,751,269	\$	970,059,243		

Source: Fairfax County Wastewater Management Program

Notes:

(a) Certain amounts for fiscal years 2014 and 2017 have been reclassified and/or adjusted for comparability and/or to retroactively reflect accounting changes made during this period. Fiscal year 2014 was related to GASB 68 and fiscal year 2017 was related to GASB 75.

Unaudited - see accompanying report of independent auditor.

TABLE 1.2 - CHANGES IN NET POSITION - LAST TEN FISCAL YEARS

			Fiscal Year		
	2022	2021	2020	2019	2018
Operating revenues:					
Sales of service	\$ 231,214,007	\$ 216,447,771	\$ 217,853,523	\$ 210,961,807	\$ 199,758,856
Operating expenses:					
Personnel services	36,692,825	39,859,440	39,488,665	33,607,870	32,841,348
Materials and supplies	16,235,691	16,915,830	16,675,060	17,903,555	17,421,987
Contractual services	48,993,834	50,889,539	50,821,222	49,486,830	50,481,605
Depreciation and amortization	67,411,472	65,629,470	64,683,862	64,666,137	63,654,892
Professional fees and other	 1,623,269	1,530,292	474,940	360,872	251,504
Total operating expenses	 170,957,091	174,824,571	172,143,749	166,025,264	164,651,336
Operating income	 60,256,916	41,623,200	45,709,774	44,936,543	35,107,520
Nonoperating revenues (expenses):					
Availability fees	16,355,051	34,714,848	22,180,962	21,473,258	25,974,491
Investment earnings	479,834	790,769	2,859,826	3,675,949	2,525,508
Interest expense	(25,737,037)	(19,458,780)	(21,212,596)	(22,702,763)	(23,635,250)
Amortization of bond issuance costs	-	(993,208)	(6,938)	-	-
Amortization of deferred amounts on refundings	-	-	-	-	-
Gain (loss) on disposal of capital assets	 70,862	55,287	(37,398)	21,249	54,378
Total nonoperating revenues (expenses), net	 (8,831,290)	15,108,916	3,783,856	2,467,693	4,919,127
Income before contributions and special items	51,425,626	56,732,116	49,493,630	47,404,236	40,026,647
Capital contributions:					
Grants from the Commonwealth	618	51,862	68,519	197,696	5,315,145
From developers	2,282,658	1,423,762	2,526,683	661,922	2,299,780
Special items:					
Gain on sale of purchased capacity	 -	-	9,898,401	-	-
Change in net position	\$ 53,708,902	\$ 58,207,740	\$ 61,987,233	\$ 48,263,854	\$ 47,641,572

continued

Source: Fairfax County Wastewater Management Program

Notes:

(a) Certain amounts for fiscal year 2017 have been restated due to the implementation of GASB 75.

Unaudited - see accompanying report of independent auditor.

				Fiscal Year			
	2017 (a)	2016		2015	2014		2013
Operating revenues:							
Sales of service	\$ 195,753,184 \$	190,433	,799 \$	187,538,854	\$ 188,168,475	\$	173,553,631
Operating expenses:							
Personnel services	33,131,199	29,532	,231	26,416,320	27,576,508		25,607,805
Materials and supplies	15,588,636	15,409	,135	14,063,157	15,635,981		13,238,456
Contractual services	46,232,788	46,873	,730	51,342,024	47,658,923		47,167,159
Depreciation and amortization	63,441,165	61,090	,693	58,046,612	55,558,575		54,358,299
Professional fees and other	 721,903	637	,717	490,055	240,007		427,705
Total operating expenses	 159,115,691	153,543	,506	150,358,168	146,669,994		140,799,424
Operating income	 36,637,493	36,890	,293	37,180,686	41,498,481		32,754,207
Nonoperating revenues (expenses):							
Availability fees	25,206,124	14,681	,449	21,689,013	24,007,197		20,477,318
Investment earnings	1,022,586	1,171	,307	780,354	484,332		1,409,377
Interest expense	(19,502,116)	(20,601	,532)	(23,677,340)	(26,960,382))	(28,052,165)
Amortization of bond issuance costs	(673,776)	(605	,018)	-	(343,229))	(699,561)
Amortization of deferred amounts on refundings	-		-	(945,079)	(994,404))	151,242
Gain (loss) on disposal of capital assets	 152,917	(8,326	,757)	48,459	122,334		187,421
Total nonoperating revenues (expenses), net	 6,205,735	(13,680	,551)	(2,104,593)	(3,684,152))	(6,526,368)
Income before contributions and special item	42,843,228	23,209	,742	35,076,093	37,814,329		26,227,839
Capital contributions:							
Grants from the Commonwealth	9,394,529	1,958	,258	900,914	591,814		1,107,952
From developers	3,119,145	2,640	,181	2,376,245	3,482,762		5,954,792
Special items:							
Gain on sale of purchased capacity	 -		-	-	-		-
Change in net position	\$ 55,356,902 \$	27,808	,181 \$	38,353,252	\$ 41,888,905	\$	33,290,583
	 						concluded

			F	iscal Year		
	2022	2021		2020	2019	2018
Sewer service:						
County connections	\$ 220,776,399	\$ 205,801,851	\$	208,257,853	\$ 198,631,795	\$ 190,500,757
City of Fairfax	2,060,877	2,280,047		1,913,176	2,275,982	2,257,047
Town of Herndon	2,327,963	1,643,043		1,398,220	2,571,350	1,376,980
Arlington County	630,962	772,690		606,531	839,357	614,338
Fort Belvoir	2,132,407	2,692,819		2,263,915	3,051,171	2,327,058
City of Falls Church	659,381	672,472		595,412	716,759	820,972
Town of Vienna	668,834	651,000		680,750	810,220	501,998
Other (a)	611,919	603,980		764,050	786,530	608,854
Other services	 1,345,265	1,329,869		1,373,616	1,278,643	750,582
Total operating revenues	\$ 231,214,007	\$ 216,447,771	\$	217,853,523	\$ 210,961,807	\$ 199,758,586

	 Fiscal Year										
	2017		2016		2015		2014		2013		
Sewer service:											
County connections	\$ 186,702,496	\$	180,554,128	\$	176,558,827	\$	176,471,310	\$	163,052,021		
City of Fairfax	2,304,397		2,301,634		1,667,693		2,158,338		1,702,234		
Town of Herndon	1,281,635		1,034,990		3,229,858		3,758,078		2,992,525		
Arlington County	339,303		727,823		705,557		540,121		538,464		
Fort Belvoir	2,204,729		2,542,802		2,189,831		2,431,455		2,429,616		
City of Falls Church	684,338		1,095,921		1,049,188		1,022,967		921,702		
Town of Vienna	479,276		454,525		467,888		455,670		650,817		
Other (a)	722,920		824,581		755,256		563,866		651,188		
Other services	 1,034,090		897,395		914,756		766,670		615,064		
Total operating revenues	\$ 195,753,184	\$	190,433,799	\$	187,538,854	\$	188,168,475	\$	173,553,631		

Source: Fairfax County Wastewater Management Program

Notes:

(a) Other sewer service revenues include revenues from Fairfax Water and the County's solid waste resource recovery facility.

TABLE 1.4 - OPERATING EXPENSES DETAIL - LAST TEN FISCAL YEARS

	Fiscal Year									
		2022		2021		2020		2019		2018
Wastewater treatment expenses (a):										
Noman M. Cole, Jr.	\$	26,000,825	\$	23,792,593	\$	23,065,261	\$	23,524,169	\$	23,094,407
Alexandria Renew Enterprises		10,785,305		11,272,272		11,083,752		11,122,097		13,575,257
DCWASA Blue Plains		13,788,885		15,317,242		15,930,135		15,517,396		14,271,793
Upper Occoquan Service Authority		13,846,223		13,515,517		14,281,321		12,979,718		12,977,850
Arlington County		2,045,814		2,616,182		2,073,297		2,592,200		2,453,677
City of Falls Church Sewer		354,238		617,828		381,118		415,768		420,592
Other (b)		911,968		615,213		587,386		529,851		616,062
Total wastewater treatment expenses		67,733,258		67,746,847		67,402,270		66,681,199		67,409,638
Other operating expenses:										
Pumping, collection, and inspection		16,907,313		18,819,691		19,289,862		16,834,560		18,119,901
System repairs and renovations		353,428		360,614		422,944		456,351		505,937
Planning, engineering, and monitoring support		11,290,219		15,332,664		13,860,598		11,057,216		8,794,593
Billing and bill collection		7,261,401		6,935,285		6,484,213		6,329,801		6,166,375
Depreciation and amortization		67,411,472		65,629,470		64,683,862		64,666,137		63,654,892
Total operating expenses	\$	170,957,091	\$	174,824,571	\$	172,143,749	\$	166,025,264	\$	164,651,336

	Fiscal Year									
		2017		2016		2015		2014		2013
Wastewater treatment expenses (a):										
Noman M. Cole, Jr.	\$	20,837,175	\$	20,325,332	\$	18,425,015	\$	19,931,898	\$	19,605,159
Alexandria Renew Enterprises		13,350,729		11,590,585		13,380,703		13,133,545		12,786,521
DCWASA Blue Plains		10,644,395		12,800,588		15,016,549		11,815,951		13,214,346
Upper Occoquan Service Authority		13,420,485		13,472,493		12,687,555		12,276,384		12,635,433
Arlington County		2,066,590		2,012,313		2,711,644		2,225,036		2,174,228
City of Falls Church Sewer		-		48,617		664,936		-		-
Other (b)		556,511		533,502		1,074,445		496,374		530,959
Total wastewater treatment expenses		60,875,885		60,783,430		63,960,847		59,879,188		60,946,646
Other operating expenses:										
Pumping, collection, and inspection		18,347,241		16,671,232		13,512,902		13,280,579		13,759,928
System repairs and renovations		238,102		194,724		260,030		115,557		280,341
Planning, engineering, and monitoring support		8,511,113		8,387,796		8,771,586		10,240,019		5,655,443
Billing and bill collection		6,194,078		6,415,631		5,806,191		7,596,076		5,798,767
Depreciation and amortization		63,441,165		61,090,693		58,046,612		55,558,575		54,358,299
Total operating expenses	\$	157,607,584	\$	153,543,506	\$	150,358,168	\$	146,669,994	\$	140,799,424

Source: Fairfax County Wastewater Management Program

Notes:

(a) Wastewater treatment expenses are direct operating expenses, excluding depreciation and amortization.

(b) Other plants include Harbor View and Prince William County Service Authority.

2.0 REVENUE CAPACITY

Revenue capacity information is intended to assist users in understanding and assessing the factors affecting the system's ability to generate its own-source revenues. There are six tables presented in this section.

TABLE 2.1 - SEWER RATE STRUCTURE (a) - LAST TEN FISCAL YEARS

	Ava	ilability Charge (Per Unit)	(b)		Retail Residential
Fiscal Year	Single Family Residence	Townhouse/ Apartment	Commercial Fixture	Charge (c) (Per 1,000 gallons)	Sewer Service Base Charge (d) (Per Bill)
2022	\$ 8,507 \$	6,806 \$	425 \$	7.72 \$	36.54
2021	8,340	6,672	417	7.28	32.91
2020	8,340	6,672	417	7.28	32.91
2019	8,100	6,480	405	7.00	30.38
2018	8,100	6,480	405	6.75	27.62
2017	7,750	6,200	401	6.68	24.68
2016	7,750	6,200	401	6.65	20.15
2015	7,750	6,200	401	6.62	15.86
2014	7,750	6,200	401	6.55	12.79
2013	7,750	6,200	401	6.55	5.50

Connection Charge (e) -Effective July 1, 2011, the rate was increased to \$152.50 per foot.Prior to this date, the rate was \$6.00 per foot since December 1970.

Lateral Spur Charge (f) - The rate has been \$600 per spur connection since March 1981.

Source: Fairfax County Wastewater Management Program Notes:

- (a) Sewer rates are established by the Board of Supervisors pursuant to Chapter 67.1 of the County Code. Rates and code language are reviewed annually by the County staff as part of the County's annual long-range planning and short-term budgeting process and revised as necessary. These rates are in effect for County customers only. Customers outside the County are billed subject to sale of service agreements.
- (b) Availability Charge This is a one-time charge collected from all new customers prior to connection to the System to cover in part the new customer's proportionate cost of System facilities beyond the collector system. Residential units pay on a per unit basis. Commercial units pay an equivalent residential (single family residence) unit fee for the first 19 plumbing fixture units, then on a per fixture unit basis for any fixture units in excess of the residential equivalent amount.
- (c) Retail Sewer Service Charge Single family residences and townhouses are billed sewer service charges quarterly based on water consumption from the previous winter quarter. Apartment and nonresidential complexes are billed based on consumption used during the billing period. These charges are collected by three water billing agents: Fairfax Water, the City of Falls Church, and the Town of Vienna.
- (d) Beginning in FY 2010, a base charge of \$5.00 per bill is assessed, in addition to the sewer service charge, to partially recover fixed expenses for billing, wastewater collection, engineering, planning, and administrative expenses.
- (e) Connection Charge: frequently called the front footage charge, this is a one-time charge collected from new customers prior to connection to the System as a partial repayment of County installed collector sewers.
- (f) Lateral Spur Charge: this is a one-time charge that applies only to those new customers who are connecting to County installed sanitary sewers where the lateral spurs have been installed at County expense.

			Fiscal Year		
Treatment Plant	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	153,495	153,178	152,990	150,482	150,103
DCWASA Blue Plains	91,430	90,927	90,617	89,578	89,182
Alexandria Renew Enterprises	70,480	70,323	70,232	68,754	68,663
Upper Occoquan Service Authority	50,832	50,563	50,435	49,734	49,576
Arlington County	11,000	10,990	10,976	10,733	10,716
Other (a)	377	376	376	375	373
Customer base	377,614	376,357	375,626	369,656	368,613

TABLE 2.2 - CUSTOMER BASE BY TREATMENT PLANT - LAST TEN FISCAL YEARS

			Fiscal Year		
Treatment Plant	2017	2016	2015	2014	2013
Noman M. Cole, Jr.	149,880	149,667	149,344	149,172	148,734
DCWASA Blue Plains	88,920	88,701	88,325	88,139	87,841
Alexandria Renew Enterprises	68,606	68,455	68,293	68,207	68,035
Upper Occoquan Service Authority	49,467	49,428	49,351	49,288	49,239
Arlington County	10,706	10,688	10,675	10,664	10,650
Other (a)	372	372	369	368	367
Customer base	367,951	367,311	366,357	365,838	364,866

Source: Fairfax County Wastewater Management Program

Notes:

(a) Other service areas include Harbor View and Prince William County Service Authority. In addition, there are holding tank facilities in the Town of Clifton and Gunston Wiley.

	Fiscal Year								
Service Class	2022	2021	2020	2019	2018				
Residential units:									
Single family	167,978	167,359	166,981	166,462	165,936				
Multi-family	96,327	96,264	96,263	96,258	96,256				
Townhouse	80,045	79,502	79,155	78,636	78,159				
Total residential units	344,350	343,125	342,399	341,356	340,351				
Nonresidential units (a)	28,367	28,335	28,330	28,300	28,262				
Total customer base	372,717	371,460	370,729	369,656	368,613				

TABLE 2.3 - CUSTOMER BASE BY SERVICE CLASS - LAST TEN FISCAL YEARS

			iscal Year		
Service Class	2017	2016	2015	2014	2013
Residential units:					
Single family	165,552	165,113	164,418	164,021	163,266
Multi-family	96,251	96,247	96,226	96,212	96,207
Townhouse	77,905	77,722	77,549	77,469	77,301
Total residential units	339,708	339,082	338,193	337,702	336,774
Nonresidential units (a)	28,243	28,229	28,164	28,136	28,092
Total customer base	367,951	367,311	366,357	365,838	364,866

Source: Fairfax County Wastewater Management Program Notes:

(a) Nonresidential units include long-term care, dorms, and extended-stay rooms.

	Fiscal Year								
Service Class	2022	2021	2020	2019	2018				
Residential units:									
Single family	248	228	156	225	135				
Multi-family	931	3,076	1,655	1,121	2,575				
Townhouse	476	555	430	436	424				
Total residential units	1,655	3,859	2,241	1,782	3,134				
Nonresidential units (b)	-	1	-	5	9				
Total sewer connections sold	1,655	3,860	2,241	1,787	3,143				
Additional commercial fixture units so	11,200	19,443	12,414	12,562	12,315				

TABLE 2.4 - NUMBER OF SEWER CONNECTIONS SOLD (a) - LAST TEN FISCAL YEARS

	Fiscal Year									
Service Class	2017	2016	2015	2014	2013					
Residential units:										
Single family	227	161	189	168	242					
Multi-family	2,709	1,386	1,608	2,571	1,580					
Townhouse	213	136	195	84	218					
Total residential units	3,149	1,683	1,992	2,823	2,040					
Nonresidential units (b)	18	12	19	571	121					
Total sewer connections sold	3,167	1,695	2,011	3,394	2,161					
Additional commercial fixture units so	12,151	9,163	12,898	12,463	17,856					

Source: Fairfax County Wastewater Management Program

Notes:

(a) The number of sewer connections sold includes only County customers. Availability fees are generated by sewer connections sold. See Table 2.1 for the rate structure.

(b) Nonresidential units include long-term care, dorms and extended-stay rooms.

TABLE 2.5 - NUMBER OF NEW SEWER CONNECTIONS - LAST TEN FISCAL YEARS

		Fi	scal Year		
Service Class	2022	2021	2020	2019	2018
Residential units:					
Single family	619	378	519	526	384
Multi-family	63	1	5	2	5
Townhouse	543	347	519	477	254
Total residential units	1,225	726	1,043	1,005	643
Nonresidential units (a)	32	5	30	38	19
Total new sewer connections	1,257	731	1,073	1,043	662

	Fiscal Year								
Service Class	2017	2016	2015	2014	2013				
Residential units:									
Single family	439	695	397	755	595				
Multi-family	4	21	14	5	30				
Townhouse	183	173	80	168	282				
Total residential units	626	889	491	928	907				
Nonresidential units (a)	14	65	28	44	416				
Total new sewer connections	640	954	519	972	1,323				

Source: Fairfax County Wastewater Management Program Notes:

(a) Nonresidential units include long-term care, dorms and extended-stay rooms.

TABLE 2.6 - TEN LARGEST CUSTOMERS - CURRENT YEARS AND NINE YEARS AGO

		F	iscal Yea	ar 2022	Fiscal Year 2013					
Name	F	Annual Revenues	Rank	Percentage of Total Operating Revenues		Annual Revenues	Rank	Percentage of Total Operating Revenues		
INOVA Fairfax Hospital	\$	421,845	1	0.18 %	\$	517,267	1	0.30 %		
INOVA Health Systems - Fair Oaks Hospital		391,009	2	0.17		137,356	10	0.08		
Skyline Plaza		375,587	3	0.16		-	-	-		
5599 Seminary Rd. Owner, LLC		288,899	4	0.12		-	-	-		
Woodlake Towers Inc		288,093	5	0.12		-	-	-		
Skyline Sq. Owners Assoc.		270,632	6	0.12		-	-	-		
Skylie House		265,541	7	0.11		-	-	-		
RBDW AVANT LLC		232,345	8	0.10		-	-	-		
Washreit Riverside LLC		180,180	9	0.08		-	-	-		
Gates/Hudson Assoc.		170,396	10	0.07		-	-	-		
Green Springs Village		-	-	-		470,102	2	0.27		
Shenandoah's Pride Dairy		-	-	-		287,867	3	0.17		
Reston Hospital Center		-	-	-		273,406	4	0.16		
Montebello Condo Unit		-	-	-		212,119	5	0.12		
Homart Development Corp.		-	-	-		197,793	6	0.11		
Hyatt Regency Reston		-	-	-		183,304	7	0.11		
BECO Management		-	-	-		150,113	8	0.09		
ZML-Reston Town Center LLC		-	-	-		148,220	9	0.09		
Totals	\$	2,884,527		1.23 %	¢ 7	,577,547		1.50 %		

Source: Fairfax County Wastewater Management Program and FY2013 Comprehensive Annual Financial Report

3.0 - DEBT CAPACITY

Debt capacity information is intended to assist users in understanding and assessing the System's debt burden and its ability to issue additional debt. There are three tables in this section.

TABLE 3.1 - RATIOS OF OUTSTANDING DEBT - LAST TEN FISCAL YEARS

_					Fiscal Year				
	2022		2021		2020		2019		2018
\$	239,722,949	\$	241,366,552	\$	-	\$	-	\$	-
	28,525,812		28,741,153		-		-		-
	95,191,070		97,276,512		99,306,954		101,287,396		103,222,838
	175,271,962		180,254,571		185,102,180		186,134,789		187,167,398
	39,274,766		44,043,426		48,592,086		52,935,746		57,059,406
	-		2,386,175		37,803,997		39,888,736		41,883,475
_	-		-		-		4,146,400		7,603,470
_	577,986,559		594,068,389		370,805,217		384,393,067		396,936,587
	24,931,907		-		-		-		-
	220,894,723		238,023,361		230,580,059		220,716,512		231,842,892
_	-		3,253,412		9,155,312		15,001,542		20,792,625
_	245,826,630		241,276,773		239,735,371		235,718,054		252,635,517
\$	823,813,189	\$	835,345,162	\$	610,540,588	\$	620,111,121	\$	649,572,104
\$	704	\$	713	\$	523	\$	538	\$	568
	0.78%		0.83%		0.63%		0.69%		0.75%
\$	2,210	\$	2,220	\$	1,647	\$	1,678	\$	1,762
\$	3.56	\$	3.86	\$	2.80	\$	2.94	\$	3.25
	\$	\$ 239,722,949 28,525,812 95,191,070 175,271,962 39,274,766 577,986,559 24,931,907 220,894,723 245,826,630 \$ 823,813,189 \$ 704 0.78% \$ 2,210	\$ 239,722,949 \$ 28,525,812 95,191,070 175,271,962 39,274,766 - - - 577,986,559 24,931,907 220,894,723 - 245,826,630 \$ 823,813,189 \$ \$ \$ 704 \$ 0.78% \$ 2,210 \$	\$ 239,722,949 \$ 241,366,552 28,525,812 28,741,153 95,191,070 97,276,512 175,271,962 180,254,571 39,274,766 44,043,426 - - 577,986,559 594,068,389 24,931,907 - 220,894,723 238,023,361 - 3,253,412 245,826,630 241,276,773 \$ 823,813,189 \$ 835,345,162 \$ \$ 704 \$ \$ 2,210 \$	\$ 239,722,949 \$ 241,366,552 \$ 28,525,812 28,741,153 95,191,070 97,276,512 175,271,962 180,254,571 39,274,766 44,043,426 - 2,386,175 - - 577,986,559 594,068,389 - - 24,931,907 - - - 220,894,723 238,023,361 - - 245,826,630 241,276,773 \$ 823,813,189 \$ 835,345,162 \$ \$ 704 \$ 713 \$ 0.78% 0.83% \$ \$ 2,210 \$ 2,220 \$ \$	2022 2021 2020 \$ 239,722,949 \$ 241,366,552 \$ - 28,525,812 28,741,153 - 95,191,070 97,276,512 99,306,954 175,271,962 180,254,571 185,102,180 39,274,766 44,043,426 48,592,086 - - - - - - 577,986,559 594,068,389 370,805,217 - - 24,931,907 - - - - - 220,894,723 238,023,361 230,580,059 - 3,253,412 9,155,312 245,826,630 241,276,773 239,735,371 \$ 8823,813,189 \$ 835,345,162 \$ 610,540,588 \$ 704 \$ 713 \$ 523 0.63% 0.63% \$ 2,210 \$ 2,220 \$ 1,647	2022 2021 2020 \$ 239,722,949 \$ 241,366,552 \$ - \$ 28,525,812 28,741,153 - 95,191,070 97,276,512 99,306,954 175,271,962 180,254,571 185,102,180 39,274,766 44,043,426 48,592,086 - - 2,386,175 37,803,997 - - - - - - - - 577,986,559 594,068,389 370,805,217 - - 24,931,907 - - - - - 24,931,907 - - - - - 24,931,907 - - - - - 24,931,907 - - - - - 24,931,907 - - - - - 245,826,630 241,276,773 239,735,371 \$ 8 823,813,189 \$ 835,345,162 \$ 610,540,588 \$	2022 2021 2020 2019 \$ 239,722,949 \$ 241,366,552 \$ - \$ - 28,525,812 28,741,153 - - - - - 95,191,070 97,276,512 99,306,954 101,287,396 175,271,962 180,254,571 185,102,180 186,134,789 39,274,766 44,043,426 48,592,086 52,935,746 - 2,386,175 37,803,997 39,888,736 - - - - 4,146,400 - - - 4,146,400 577,986,559 594,068,389 370,805,217 384,393,067 -	2022 2021 2020 2019 \$ 239,722,949 \$ 241,366,552 \$ - \$ - \$ 28,525,812 28,741,153 - - - - \$ 95,191,070 97,276,512 99,306,954 101,287,396 175,271,962 180,254,571 185,102,180 186,134,789 39,274,766 44,043,426 48,592,086 52,935,746 - - - 2,386,175 37,803,997 39,888,736 - - 4,146,400 577,986,559 594,068,389 370,805,217 384,393,067 - - 24,931,907 - - - - - - 24,931,907 - - - - - - 24,931,907 - - - - - - 24,931,907 - - - - - - - 24,931,907 - 3,253,412 9,155,312

	_			Fiscal Year		
		2017	2016	2015 (d)	2014 (d)	2013 (d)
Senior debt:						
2017 Sewer revenue bonds	\$	103,823,280	\$ -	\$ -	\$ -	\$ -
2016 Sewer revenue bonds		188,200,007	189,232,620	-	-	-
2014 Sewer revenue bonds		60,998,066	64,786,726	68,475,386	68,989,046	-
2012 Sewer revenue bonds		43,788,214	45,612,953	101,522,504	103,487,772	105,418,040
2009 Sewer revenue bonds		10,890,540	14,022,610	146,030,833	149,111,493	152,057,153
2004 Sewer revenue refunding bonds	_	-	-	-	3,413,434	77,950,428
Total senior debt	_	407,700,107	313,654,909	316,028,723	325,001,745	335,425,621
Subordinate debt:	_					
Upper Occoquan Service Authority bonds		242,574,706	254,524,994	265,680,629	277,293,041	283,269,711
Virginia Resources Authority bonds	_	26,529,083	32,085,998	37,440,694	42,671,739	47,781,987
Total subordinate debt	_	269,103,789	286,610,992	303,121,323	319,964,780	331,051,698
Total outstanding debt	\$	676,803,895	\$ 600,265,901	\$ 619,150,046	\$ 644,966,525	\$ 666,477,319
Outstanding debt ratios:						
Per capita (a)	\$	594	\$ 526	\$ 544	\$ 570	\$ 596
Percent of personal income (a)		0.79%	0.70%	0.76%	0.80%	0.87%
Per connection (b)	\$	1,839	\$ 1,634	\$ 1,690	\$ 1,763	\$ 1,827
To operating revenues (c)	\$	3.46	\$ 3.15	\$ 3.30	\$ 3.43	\$ 3.84

Source: Fairfax County Wastewater Management Program

Notes:

(a) See Table 4.1 for population and personal income data. Ratios are based on the population and personal income data as of the prior calendar year.

(b) See Tables 2.2 and 2.3 for customer base data.

(c) See Table 1.3 for operating revenue data.

(d) For FY 2013 - 2015, amounts for bonds are reported gross, excluding premiums and/or discounts and deferred amounts on refundings.

TABLE 3.2 - PLEDGED REVENUE COVERAGE - LAST TEN FISCAL YEARS

			Debt S	ervio	e Requireme	Debt Coverage (f)						
Fiscal	Gross	Operating	Net Revenue Available for		Senior		Subordinate			Senior	То	otal
Year	Revenues (a)	Expenses (b)	Debt Service		Debt (c)	Debt (d)			Total	w/o AF	w/AF	w/o AF
2022	\$ 248,048,892	\$ 103,545,619	\$ 144,503,273	\$	29,626,582	\$	23,169,298	\$	52,795,880	4.33	2.74	2.43
2021	251,953,388	109,195,101	142,758,287		25,134,131		24,839,693		49,973,824	4.30	2.86	2.16
2020	242,894,311	107,459,887	135,434,424		25,062,781		24,626,802		49,689,583	4.52	2.73	2.28
2019	236,111,014	101,359,127	134,751,887		25,026,131		25,002,875		50,029,006	4.53	2.69	2.26
2018	228,258,855	100,996,444	127,262,411		21,798,234		21,545,695		43,343,929	4.65	2.94	2.34
2017	221,981,894	94,166,419	127,815,475		17,319,472		25,812,397		43,131,869	5.92	2.96	2.38
2016	206,286,555	92,452,813	113,833,742		20,896,350		26,219,955		47,116,305	4.74	2.42	2.10
2015	210,056,680	92,311,556	117,745,124		20,524,756		26,239,074		46,763,830	4.68	2.52	2.04
2014	212,782,338	91,111,419	121,670,919		21,889,744		26,107,036		47,996,780	4.46	2.53	2.03
2013	195,627,747	86,441,125	109,186,622		18,153,551		26,155,106		44,308,657	4.89	2.46	2.00

Source: Fairfax County Wastewater Management Program

Notes:

(a) Gross revenues include all revenues except amortization of deferred gains on bond refundings and gains on disposals of capital assets.

(b) Operating expenses do not include depreciation and amortization.

(c) Senior debt includes sewer revenue and revenue refunding bonds issued by the System and the System's share of debt of the Alexandria Sanitation Authority.

- (d) Subordinate debt is paid after senior debt and operating expenses. It includes debt service on the System's share of debt of UOSA Revenue Bonds and VRA Revenue Bonds.
- (e) The same resources are used for all debt service requirements. See Table 3.3 for details of principal and interest amounts.

(f) The minimum senior debt service coverage should be no less than 1.25 times the debt service requirements for the fiscal year.

			F	iscal Year		
	2022	2021		2020	2019	2018
Senior debt:						
2021A Sewer revenue bonds	\$ 5,235,210	5 -	\$	- \$	- \$	-
2021B Sewer revenue refunding bonds	537,390	-		-	-	-
2017 Sewer revenue bonds	5,507,000	5,510,300		5,509,600	5,505,325	2,293,053
2016 Sewer revenue refunding bonds	10,453,732	10,454,956		6,697,181	6,697,181	6,697,181
2014 Sewer revenue refunding bonds	5,786,875	5,774,125		5,765,750	5,731,750	5,722,625
2012 Sewer revenue bonds	2,106,375	3,394,750		3,395,125	3,395,875	3,392,125
2009 Sewer revenue bonds	 -	-		3,695,125	3,696,000	3,693,250
Total senior debt	 29,626,582	25,134,131		25,062,781	25,026,131	21,798,234
Subordinate debt:						
EDA S2021A revenue bonds	337,244	-		-	-	-
Upper Occoquan Service Authority bonds	19,555,443	18,864,801		18,651,910	19,027,983	15,570,803
Virginia Resources Authority bonds	 3,276,611	5,974,892		5,974,892	5,974,892	5,974,892
Total subordinate debt	 23,169,298	24,839,693		24,626,802	25,002,875	21,545,695
Total debt service requirements	\$ 52,795,880 \$	49,973,824	\$	49,689,583 \$	50,029,006 \$	43,343,929

			F	iscal Year			
	2017	2016		2015		2014	2013
Senior debt:							
2016 Sewer revenue refunding bonds	\$ 4,520,597	\$ -	\$	- 9	\$	- \$	-
2014 Sewer revenue refunding bonds	5,707,375	5,688,250		1,901,681		-	-
2012 Sewer revenue bonds	3,394,125	5,556,950		5,554,675		5,556,200	1,801,401
2009 Sewer revenue bonds	3,697,375	9,651,150		9,650,025		9,651,900	9,652,150
2004 Sewer revenue refunding bonds	 -	-		3,418,375		6,681,644	6,700,000
Total senior debt	 17,319,472	20,896,350		20,524,756		21,889,744	18,153,551
Subordinate debt:							
Upper Occoquan Service Authority bonds	19,837,505	20,016,677		20,035,797		19,903,758	19,734,931
Virginia Resources Authority bonds	 5,974,892	6,203,278		6,203,277		6,203,278	6,420,175
Total subordinate debt	 25,812,397	26,219,955		26,239,074		26,107,036	26,155,106
Total debt service requirements	\$ 43,131,869 \$	\$ 47,116,305	\$	46,763,830	5	47,996,780 \$	44,308,657

Source: Fairfax County Wastewater Management Program

(a) Debt service amounts reported in this table include both principal and interest payments on bonds based on a cash basis.

4.0 DEMOGRAPHIC AND ECONOMIC INFORMATION

Demographic and economic information is intended to assist users in understanding the socioeconomic environment within which a government entity operates and to provide information that facilitates comparisons of financial statement information over time and among environments. There are two tables presented in this section.

TABLE 4.1 - DEMOGRAPHIC AND ECONOMIC STATISTICS - LAST TEN CALENDAR YEARS

	<u>County Population</u>			Personal	F	Per Capita	
Calendar Year	Total (a)	On County Sewer (b)		Income (c) (000s)		Personal ncome (c)	Unemployment Rate (d)
2021	1,170,443	957,500	\$	105,777,709	\$	88,971	3.5 %
2020	1,171,848	954,000		100,944,159		86,141	5.6
2019	1,166,965	952,000		96,205,762		82,441	2.3
2018	1,152,873	949,000		90,357,574		78,376	2.4
2017	1,142,888	945,000		86,834,344		75,978	3.0
2016	1,138,652	941,000		85,311,224		74,923	3.2
2015	1,142,234	937,000		85,675,546		75,007	3.1
2014	1,137,538	936,245		81,620,627		71,752	3.5
2013	1,130,924	935,435		80,982,075		71,607	3.7
2012	1,118,602	932,864		77,012,392		68,847	4.3

Notes:

- (a) Total population data includes the Cities of Fairfax and Falls Church and is obtained from the U.S. Census Bureau's American Fact Finder.
- (b) Population data for those on County Sewer is obtained from the Fairfax County Wastewater Management Program.
- (c) Personal income data is obtained from the Bureau of Economic Analysis, U.S. Department of Commerce and includes the Cities of Fairfax and Falls Church. Data for only Fairfax County is not available; however, it is believed that the inclusion of these Cities does not significantly affect the County's data. Fairfax County data for 2021 is estimated using percent change in per capita personal income from 2020.
- (d) Unemployment rates are obtained from the Virginia Employment Commission's Annual Unemployment Statistics for the calendar year, not seasonally adjusted.

TABLE 4.2 - PRINCIPAL EMPLOYERS - CURRENT YEAR AND NINE YEARS AGO

	Fisca	al Year 2	022 (a)	Fiscal Year 2013 (a)					
Employer	Number of Employees (b)	Rank	Pct. of Total County Employment (c)	Number of Employees (b)	Rank	Pct. of Total County Employment (c)			
Federal Government	25,964	1	4.15 %	24,421	1	4.14 %			
Fairfax County Public Schools	25,570	2	4.09	24,232	2	4.11			
Fairfax County Government	11,984	3	1.92	12,302	3	2.08			
Inova Health System	10,000-12,000	4	1.76	7,000-10,000	5	1.44			
George Mason University	5,000-9,999	5	1.20	-	-	-			
Booz-Allen Hamilton	5,000-9,999	6	1.20	7,000-10,000	4	1.44			
Amazon	5,000-9,999	7	1.20	-	-	-			
Capital One	5,000-9,999	8	1.20	-	-	-			
Science Applications International Corporation (d)	5,000-9,999	9	1.20	4,000-6,999	9	0.93			
Federal Home Loan Mortgage	5,000-9,999	10	1.20	4,000-6,999	6	0.93			
Lockheed Martin Corporation	-	-	-	4,000-6,999	7	0.93			
Northrop Grumman	-	-	-	4,000-6,999	8	0.93			
Administaff	-	-	-	1,000-3,999	10	0.42			
Total			19.12 %			17.35 %			

Source: Fairfax County Economic Development Authority, using Virginia Employment Commission data; Fairfax County Public Schools; Fairfax County Department of Management and Budget

Notes:

(a) Employment information for fiscal year 2022, excluding data for Fairfax County Government and Fairfax County Public Schools, is from the 4th quarter of calendar year 2021 VEC and Fairfax County's Economic Development Authority (Jan 22). Employment information for fiscal year 2013 is as presented in the fiscal year 2013 Comprehensive Annual Financial Report.

(b) Employment estimates for separate facilities of the same firm have been combined to create company totals. Employment ranges for the private sector are given to ensure confidentiality.

(c) Percentages are based on the midpoint of the employment range. Average total County employment for fiscal year 2022 is estimated at 625,452 based on Virginia Employment Commission. Average total County employment for fiscal year 2013 was estimated at 590,282.

(d) Science Applications International Corporation employment is reported prior to the September 2013 split into two independent companies (SAIC and Leidos).

5.0 Operating Information

Operating information is intended to provide contextual information about a government entity's operations and resources to assist readers in using financial statement information to understand and assess a government entity's economic condition. There are nine tables presented in this section.

	Fiscal Year						
Division	2022	2021	2020	2019	2018		
Planning & Administration	32	32	31	29	29		
Laboratory	23	23	23	23	23		
Collection	139	139	139	138	134		
Treatment	136	135	135	134	131		
Total	330	329	328	324	317		

	Fiscal Year						
Division	2017	2016	2015	2014	2013		
Planning & Administration	32	35	35	35	25		
Laboratory	21	19	19	19	21		
Collection	134	132	132	132	140		
Treatment	132	129	129	129	135		
Total	319	315	315	315	321		

Source: Fairfax County Wastewater Management Program

Notes:

(a) Number of employees represents full time equivalents as of June 30 of the fiscal year.

TABLE 5.2 - TREATMENT PLANT CAPACITIES (MGD) - LAST TEN FISCAL YEARS

Treatment Plant	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	67.00	67.00	67.00	67.00	67.00
DCWASA Blue Plains	31.00	31.00	31.00	31.00	31.00
Alexandria Renew Enterprises	32.40	32.40	32.40	32.40	32.40
Upper Occoquan Service Authority	22.10	22.10	22.10	22.60	22.60
Arlington County	3.00	3.00	3.00	3.00	3.00
Loudoun Water	1.00	1.00	1.00	1.00	1.00
Other (a)	0.18	0.18	0.18	0.18	0.18
Treatment plant capacity	156.68	156.68	156.68	157.18	157.18

Treatment Plant	2017	2016	2015	2014	2013
Noman M. Cole, Jr.	67.00	67.00	67.00	67.00	67.00
DCWASA Blue Plains	31.00	31.00	31.00	31.00	31.00
Alexandria Renew Enterprises	32.40	32.40	32.40	32.40	32.40
Upper Occoquan Service Authority	22.60	22.60	22.60	22.60	22.60
Arlington County	3.00	3.00	3.00	3.00	3.00
Loudoun Water	1.00	1.00	1.00	1.00	1.00
Other (a)	0.18	0.18	0.18	0.18	0.18
Treatment plant capacity	157.18	157.18	157.18	157.18	157.18

Source: Fairfax County Wastewater Management Program

Notes:

(a) Other plants include Harbor View and Prince William County Service Authority.

TABLE 5.3 - AVERAGE WASTEWATER FLOWS (MGD) BY TREATMENT PLANT - LAST TEN FIS	CAL
YEARS	

Treatment Plant	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	38.56	40.54	37.08	42.24	36.95
DCWASA Blue Plains	27.70	26.86	27.53	31.66	26.80
Alexandria Renew Enterprises	17.34	18.06	16.18	21.64	17.31
Upper Occoquan Service Authority	12.30	13.06	12.43	14.44	12.47
Arlington County	2.17	2.11	2.18	2.34	2.25
Other (a)	0.05	0.06	0.04	0.06	0.02
Total system flow	98.12	100.69	95.44	112.38	95.80

Treatment Plant	2017	2016	2015	2014	2013
Noman M. Cole, Jr.	35.64	37.78	38.36	39.77	37.56
DCWASA Blue Plains	25.36	27.14	28.17	29.98	28.39
Alexandria Renew Enterprises	15.46	16.52	16.39	19.07	17.66
Upper Occoquan Service Authority	11.86	12.64	12.76	13.53	12.50
Arlington County	2.18	2.08	2.04	1.96	1.96
Other (a)	0.02	0.04	0.03	0.03	0.02
Total system flow	90.52	96.20	97.75	104.34	98.09

Source: Fairfax County Wastewater Management Program

Notes:

(a) Other plants include Loudoun Water, Harbor View, and Prince William County Service Authority.

TABLE 5.4 - AVERAGE WASTEWATER FLOWS (MGD) BY SOURCE - LAST TEN FISCAL YEARS

-	Fiscal Year					
Source	2022	2021	2020	2019	2018	
County connections	88.77	89.77	85.66	100.21	85.93	
City of Fairfax	2.49	2.88	2.34	3.06	2.57	
Town of Herndon	2.64	2.97	3.02	3.36	2.88	
Arlington County	1.20	1.39	1.24	1.59	1.17	
Fort Belvoir	0.92	1.23	1.02	1.40	1.18	
City of Falls Church	1.00	1.18	1.05	1.24	1.04	
Town of Vienna	0.90	0.97	0.89	1.14	0.75	
Other (a)	0.20	0.29	0.22	0.38	0.28	
Total system flow	98.12	100.68	95.44	112.38	95.80	

-	Fiscal Year						
Source	2017	2016	2015	2014	2013		
County connections	80.85	85.82	87.93	92.26	88.72		
City of Fairfax	2.95	3.24	2.84	3.20	2.63		
Town of Herndon	2.68	2.43	2.46	2.66	2.27		
Arlington County	1.09	1.35	1.37	1.39	1.21		
Fort Belvoir	1.08	1.29	1.13	2.70	1.30		
City of Falls Church	0.86	0.94	0.89	0.98	0.94		
Town of Vienna	0.69	0.75	0.77	0.86	0.73		
Other (a)	0.32	0.38	0.36	0.29	0.29		
Total system flow	90.52	96.20	97.75	104.34	98.09		

Source: Fairfax County Wastewater Management Program

Notes:

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(a) Other sources of wastewater include Loudoun County, Fairfax Water, and the County's solid waste resource recovery facility.

Unaudited - see accompanying report of independent auditor.

TABLE 5.5 - MAXIMUM MONTHLY FLOWS (MGD) BY TREATMENT PLANT - LAST TEN FISCAL YEARS

	Recent Fiv	<u>ve Years</u>	Past Ten Years	
Treatment Plant	Flow	Month	Flow	Month
Noman M. Cole, Jr.	46.48	Mar-19	46.48	Mar-19
DCWASA Blue Plains	36.16	Aug-21	36.16	Aug-21
Alexandria Renew Enterprises	25.14	Dec-18	25.14	Dec-18
Upper Occoquan Service Authority	16.68	Nov-18	16.68	Nov-18
Arlington County	2.47	Dec-18	2.47	Dec-18

Source: Fairfax County Wastewater Management Program

TABLE 5.6 - AVERAGE UNUSED CAPACITY (MGD) BY TREATMENT PLANT (a) - LAST TEN FISCALYEARS

_	Fiscal Year				
Treatment Plant	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	28.44	26.46	29.92	24.76	30.05
DCWASA Blue Plains	3.30	4.14	3.47	(0.66)	4.20
Alexandria Renew Enterprises	15.06	14.34	16.22	10.76	15.09
Upper Occoquan Service Authority	9.80	9.04	9.67	8.16	10.13
Arlington County	0.83	0.89	0.82	0.66	0.75
Loudoun Water	1.00	1.00	1.00	1.00	1.00
Other (b)	0.13	0.12	0.14	0.12	0.16
Total unused capacity	58.56	55.99	61.24	44.80	61.38

_	Fiscal Year					
Treatment Plant	2017	2016	2015	2014	2013	
Noman M. Cole, Jr.	31.36	29.22	28.64	27.23	29.44	
DCWASA Blue Plains	5.64	3.86	2.83	1.02	2.60	
Alexandria Renew Enterprises	16.94	15.88	16.01	13.33	14.73	
Upper Occoquan Service Authority	10.74	9.96	9.83	9.07	10.10	
Arlington County	0.82	0.92	0.97	1.04	1.04	
Loudoun Water	1.00	1.00	1.00	1.00	1.00	
Other (b)	0.16	0.14	0.15	0.15	0.15	
Total unused capacity	66.66	60.98	59.43	52.84	59.06	

Source: Fairfax County Wastewater Management Program

Notes:

(a) See Table 5.2 for treatment plant capacity.

(b) Other plants include Harbor View and Prince William County Service Authority.

TABLE 5.7 - AVERAGE CAPACITY UTILIZATION (a) BY TREATMENT PLANT - LAST TEN FISCAL YEARS

Treatment Plant					
	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	57.55 %	60.51 %	55.34 %	63.04 %	55.15 %
DCWASA Blue Plains	89.35	86.65	88.79	102.13	86.45
Alexandria Renew Enterprises	53.52	55.74	49.95	66.79	53.43
Upper Occoquan Service Authority	55.66	59.10	56.24	63.89	55.18
Arlington County	72.33	70.33	72.80	78.00	75.00
Other (b)	27.78	31.11	20.00	33.33	11.11
Total system capacity utilization	62.62 %	64.26 %	60.91 %	71.50 %	60.95 %

Treatment Plant					
	2017	2016	2015	2014	2013
Noman M. Cole, Jr.	53.19 %	56.39 %	57.25 %	59.36 %	56.06 %
DCWASA Blue Plains	81.81	87.55	90.87	96.71	91.61
Alexandria Renew Enterprises	47.72	50.99	50.59	58.86	54.53
Upper Occoquan Service Authority	52.48	55.93	56.46	59.87	55.75
Arlington County	72.67	69.33	68.00	65.33	66.67
Other (b)	11.11	22.22	16.67	16.11	16.67
Total system capacity utilization	57.59 %	61.20 %	62.19 %	66.38 %	62.42 %

Source: Fairfax County Wastewater Management Program

Notes:

(a) See Table 5.2 for treatment plant capacity.

(b) Other plants include Harbor View and Prince William County Service Authority.

Table 5.8 - Average Unit Cost of Wastewater Treatment (\$/MG) by Treatment Plant -Last Ten Fiscal Years

Treatment Plant		F	iscal Year		
	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	\$ 2,043 \$	1,834 \$	1,979 \$	1,705 \$	1,903
DCWASA Blue Plains	1,364	1,562	1,586	1,343	1,452
Alexandria Renew Enterprises	1,704	1,710	1,876	1,408	2,148
Upper Occoquan Service Authority	3,050	2,836	3,148	2,442	2,825
Arlington County	2,530	3,399	2,601	3,032	2,982

Treatment Plant	Fiscal Year					
		2017	2016	2015	2014	2013
Noman M. Cole, Jr.	\$	1,856 \$	1,651 \$	1,542 \$	1,509 \$	1,551
DCWASA Blue Plains		1,150	1,245	1,460	1,080	1,275
Alexandria Renew Enterprises		2,366	1,938	2,237	1,887	1,983
Upper Occoquan Service Authority		3,070	2,868	2,701	2,486	2,769
Arlington County		2,595	2,703	3,642	3,110	3,039

Source: Fairfax County Wastewater Management Program

Treatment Pla		t Plants (a)	Number of	Number of	
Fiscal Year	System- Owned	Purchased Capacity	Pumping Stations	Metering Stations	Miles of Sewer Pipe
2022	1	6	63	57	3,300
2021	1	6	63	57	3,250
2020	1	6	63	57	3,243
2019	1	6	63	57	3,249
2018	1	6	63	57	3,247
2017	1	6	59	54	3,242
2016	1	6	59	54	3,431
2015	1	6	59	54	3,425
2014	1	6	59	54	3,420
2013	1	6	59	54	3,412

TABLE 5.9 - CAPITAL ASSET STATISTICS - LAST TEN FISCAL YEARS

Source: Fairfax County Wastewater Management Program

Notes:

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(a) The System owns one treatment plant, the Noman M. Cole Jr. Plant, and has purchased capacity in the following treatment plants owned by other local jurisdictions: DC Water Blue Plains, Alexandria Renew Enterprises, Upper Occoquan Service Authority, Arlington County, Loudoun Water, and Prince William County Service Authority.

6.0 MISCELLANEOUS INFORMATION

Miscellaneous information is additional information presented that may be of interest to readers of this report. There are two tables and a wastewater treatment plant service area map presented in this section.

Table 6.1 - Wastewater Flow (GPD) per Capita by Treatment Plant - Last Ten Fiscal Years

	Fiscal Year				
Treatment Plant	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	98	104	94	108	95
DCWASA Blue Plains	121	118	120	140	119
Alexandria Renew Enterprises	97	101	90	122	98
Upper Occoquan Service Authority	96	102	96	114	99
Arlington County	77	75	77	84	81
Total system flow per capita	102	106	99	118	101
Annual rainfall, inches	41.98	51.31	41.92	65.40	44.24

Treatment Plant	2017	2016	2015	2014	2013
Noman M. Cole, Jr.	92	98	100	103	98
DCWASA Blue Plains	113	122	128	135	129
Alexandria Renew Enterprises	87	94	94	109	101
Upper Occoquan Service Authority	94	101	104	108	100
Arlington County	79	76	75	71	71
Total system flow per capita	96	103	105	112	105
Annual rainfall, inches	31.03	36.55	41.63	48.57	39.65

Source: Fairfax County Wastewater Management Program

TABLE 6.2 - WASTEWATER FLOW (GPD) PER CONNECTION BY TREATMENT PLANT - LAST TEN FIS-CAL YEARS

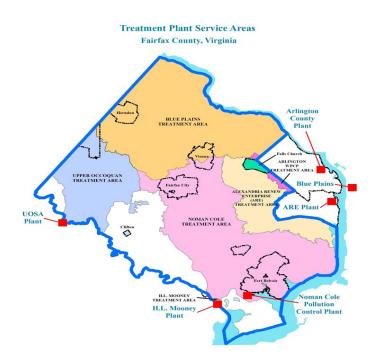
			Fiscal Year		
Treatment Plant	2022	2021	2020	2019	2018
Noman M. Cole, Jr.	255	268	246	281	247
DCWASA Blue Plains	305	298	306	353	302
Alexandria Renew Enterprises	251	262	235	315	253
Upper Occoquan Service Authority	244	261	249	290	252
Arlington County	200	195	202	218	211
Total system flow per connection	263	271	257	304	261

			Fiscal Year		
Treatment Plant	2017	2016	2015	2014	2013
Noman M. Cole, Jr.	238	252	257	267	253
DCWASA Blue Plains	286	306	319	340	323
Alexandria Renew Enterprises	226	241	240	280	260
Upper Occoquan Service Authority	240	256	261	275	254
Arlington County	204	195	191	184	184
Total system flow per connection	246	262	267	285	269

Source: Fairfax County Wastewater Management Program

Unaudited - see accompanying report of independent auditor.

WASTEWATER TREATMENT PLANT SERVICE AREA MAP



FAIRFAX COUNTY WASTEWATER MANAGEMENT



Quality of Water = Quality of Life

The three droplets in the logo range in color from dark to medium to light tones to signify the purification process that takes place at treatment facilities.

The end result of this process is water that is returned to the County's streams at a high level of quality that supports a healthy ecosystem and end uses such as recreational boating, swimming and fishing.

The fish—the alewife—portrayed within the droplet, along with the aquatic grasses shown, are bellwethers of a hospitable environment.

The slogan, "Quality of Water = Quality of Life," represents the care taken by Wastewater Management to produce an end product that enhances the

quality of residents' environmental and recreational lives.

About the Fairfax County Wastewater Management Logo **VISION** We aspire to achieve a pure and natural state of air and water quality by providing superior wastewater utility service in a spirit of teamwork and excellent customer service.

MISSION Our mission is to collect, treat, and monitor wastewater in compliance with all regulatory requirements, using state-of-the-art technology in the most effective manner. We work to improve the environment and enhance the quality of life in Fairfax County.



FAIRFAX COUNTY WASTEWATER MANAGEMENT



Quality of Water = Quality of Life

Fairfax County is committed to a policy of nondiscrimination in all county programs, services and activities and will provide reasonable accommodations upon request. Special accommodations/alternative information formats will be provided upon request. Call 703-324-5030, TTY 711.



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