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HRSD

Annual Budget

Fiscal Year 2023

(July 1, 2022 - June 30, 2023)

HRSD Annual Budget For
Fiscal Year 2023
(July 1, 2022 – June 30, 2023)

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Introduction



General Manager's Introduction

The voters of Virginia took the bold step in 1940 to address pollution in the Hampton Roads by approving a referendum creating the Hampton Roads Sanitation District (HRSD). That public approval capped a 15-year grassroots campaign that began when the shell-fishing beds in the Hampton Roads were closed by the Virginia Department of Health. At the time, over 30 million gallons of untreated sewage was being dumped into the waters of the Hampton Roads each day. It would take the United States Congress another 32 years to tackle the issue of water pollution on a national scale, finally passing the Clean Water Act in 1972.

Over the past 81 years, HRSD has developed into one of the premier wastewater treatment organizations in the nation. With 16 treatment facilities capable of treating 225 million gallons of wastewater each day from twenty cities and counties, HRSD has eliminated the discharge of untreated sewage into the waters of Coastal Virginia from the homes and businesses within our region. However, there is more work to be done to further improve water quality as well as preserve our 81-year investment in wastewater infrastructure.

The Governor-appointed, eight-member HRSD Commission approved this Fiscal Year 2023 budget at its regular meeting on May 24, 2022. The Commission and the HRSD staff worked diligently to balance our focus on stewardship of our ratepayers' hard earned dollars with our mission of stewardship of the waters of the Hampton Roads. The cost of wastewater treatment continues to rise as historic inflation is impacting every sector of the economy. However, wastewater treatment is still a bargain in Hampton Roads, with the typical household paying about \$1.28 per day for this essential service, protecting public health and our treasured local waterways.

HRSD's Approved Integrated Plan

The regional sewer system, although never designed to handle storm water, fills with rainwater runoff, groundwater and tidal water during larger storms. At times, the regional system fills beyond capacity and overflows onto local streets. While these occasional sanitary sewer overflows have minimal impact on water quality, the U.S. Environmental Protection Agency (EPA) has made minimizing these types of events a national priority. More recently, the EPA has shifted to a more prioritized "one water" approach through integrated planning. In December 2018, Congress passed the bipartisan [H.R. 7279](#) which was signed by the President in January 2019. This bill amended the Federal Water Pollution Control Act ***"to provide for an integrated planning process, to promote green infrastructure, and for other purposes."*** This new law codifies the integrated planning process HRSD has already been using to prioritize our investments in clean water mandates. HRSD remains committed to eliminating system overflows; however, the impact of those transient events on local water quality is minimal and the benefits nearly unperceivable. With the various water-related challenges facing Hampton Roads and the Commonwealth, it appears there could be significant benefit from HRSD investing in additional treatment processes to treat water to meet drinking water standards as soon as possible, even before that becomes a regulatory requirement. HRSD's SWIFT program will treat water to meet drinking water standards and use it to recharge the groundwater aquifer, providing a sustainable source of groundwater, slowing the rate of land subsidence due to over withdrawal of the groundwater, blocking salt water intrusion with a pressurized fresh water barrier and practically eliminating HRSD nutrient discharges to the York, James and Elizabeth Rivers.

With SWIFT's significant environmental benefits, HRSD proposed prioritizing SWIFT and implementing two phases of high priority wet weather projects in our Integrated Plan. EPA agreed and approved our plan on February 8, 2022. The key components include:

- \$250 million Rehabilitation Action Plan by 2025
- \$200 million on High Priority Wet Weather Projects from 2020 to 2030 to remove 47% of modeled SSO volume

- \$200 million on additional High Priority Wet Weather Projects from 2031 to 2040 to remove an additional 22% of modeled SSO volume for a total of 69% reduction
- SWIFT through 2032
- \$20 million in microbial source tracking through 2040

Chesapeake Bay Restoration

The Federally mandated requirement to reduce the amount of nutrients that HRSD's treatment plants discharge into the Chesapeake Bay has also required a significant investment in infrastructure and process improvements. The investments by HRSD along with all of Virginia's wastewater treatment plants in the Bay watershed have resulted in Virginia meeting the 2025 goal for nutrient reductions from wastewater treatment plants a full seven years ahead of the 2025 target date ([Chesapeake Bay Foundation's 2017 Virginia Midpoint Assessment](#)). Unfortunately, that is not enough, and the Commonwealth has focused efforts on removing more nutrients from the HRSD wastewater facilities to meet statewide commitments required in the upper portions of the Bay, particularly in the Potomac River watershed, and to offset delays in meeting nutrient reduction goals largely in unregulated sectors such as agriculture. As a result, the General Assembly passed legislation creating the Enhanced Nutrient Removal Certainty Program during the 2021 Special Session. This legislative mandate commits HRSD to invest nearly \$2 billion in nutrient removal and related treatment upgrades, with a major portion by 2026 and additional amounts by 2032. These projects, many of which HRSD planned to accomplish, are now critically needed over a more compressed timeline, reducing HRSD's flexibility in implementing the most cost-effective strategies for compliance with its James River aggregate nutrient wasteload allocations and potentially increasing the overall costs to meet the compressed compliance schedule. As a result of this combination of state-controlled factors, HRSD ratepayers will be carrying a disproportionately high percentage of the cost for the entire Commonwealth to accomplish its nutrient reduction goals by the 2026 target date under US EPA oversight.

Pursuing Innovative Solutions to Reduce Costs and Protect Water Quality

HRSD continues to lead international research efforts to reduce the cost of removing nutrients from wastewater and to intensify treatment processes. HRSD's research work is leveraged through partnerships with leading universities and other innovative wastewater utilities throughout the world. Putting the knowledge gained into practice has already yielded a significant return on our investment by reducing operational costs for nutrient removal as well as minimizing the capital investment required to construct new systems. A recent estimate of the value of this research found that implementation of these practices has kept energy and chemical costs from rising nearly \$40 million over the past 10 years.

Throughout HRSD's history, changing regulations have required development and implementation of innovative solutions to meet new standards in order to protect and restore the quality of the waters of Hampton Roads. Treatment processes have progressed from primary, to secondary, to our current advanced nutrient removal processes. Each regulatory change has required significant investment in new treatment processes. Under current regulations, the treated water HRSD discharges to area waterways is nearly clean enough to drink and substantially cleaner than the waterways themselves. With the addition of a few more treatment processes, HRSD can produce water that exceeds drinking water standards, likely to be the ultimate regulatory mandate at some point in the future.

HRSD development and demonstration of mainstream partial denitrification-anammox (PdNA) has been quite promising. This group of technologies has the potential to provide very significant operational and capital cost savings. Our research goes back to the 2012 timeframe with pilot testing at the Chesapeake-Elizabeth Treatment Plant Biological Nutrient Removal Pilot Facility. Since 2019, this technology has been operating within the full-scale York River Treatment Plant denitrification filters, arguably the first plant in the world (and even now probably one of only two plants in the world) to be removing a significant portion of the influent ammonia load through the anammox pathway. In March 2022, the first demonstration tank for PdNA in a Moving media Integrated Fixed film Activated Sludge (MIFAS) configuration was placed in service at the James River Treatment Plant (JRTP). Methanol addition

should begin in May following a few weeks of biofilm carrier wetting and troubleshooting construction and startup issues. Based on encouraging pilot testing results, we expect to observe evidence of anammox establishment on the biofilm carriers within 3-4 months and then continued increases in anammox activity over the subsequent year. Additional steps related to PdNA at JRTP include upgrading one tank with fixed media IFAS and the remaining seven tanks with MIFAS, all of which should be completed by the end of summer 2022. The full-scale SWIFT upgrade at JRTP includes a moving bed biofilm reactor (MBBR) that will be configured to do polishing PdNA. This is now in detailed design and part of the larger design-build project. Other planning for PdNA at HRSD includes evaluation of the upgrade and expansion of Nansemond Treatment plant using the MIFAS approach, and this would represent both capital and operational cost savings compared to the currently scoped project.

Financing a Sustainable Water Future

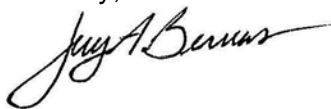
With 71% of HRSD's \$3.1 billion ten-year CIP regulatory required, HRSD must continue to raise rates and seek the lowest cost of capital to finance this required infrastructure. HRSD is the largest borrower in the Commonwealth of Virginia Clean Water Revolving Loan Funds (VCWRLF) issued by the Department of Environmental Quality (DEQ) and the Virginia Resources Authority (VRA). VCWRLF is a federally subsidized program that offers up to at 1.5% subsidy for 20-year loans. Since HRSD cannot be larger than 30% of VRA's debt portfolio and HRSD's financing needs are larger than what they can provide, HRSD also secured a \$1.05 billion in Water Infrastructure Finance and Innovation Act (WIFIA) programmatic loans for SWIFT. Two out of three tranches totaling about \$700 million are locked in at a weighted average rate of 1.78% for 34 years. Compared to current market rates, VCWRLF and WIFIA will save our ratepayers over \$600 million in interest compared to market rates. HRSD is also applying for Water Quality Improvement Fund (WQIF) grants for our nutrient reduction projects, which now include conveyance projects. The WQIF reimburses for a portion of the design and construction costs, but this is subject to funding availability. To ensure HRSD remains financially sustainable into the future, we developed a sophisticated twenty-year financial forecast and publish it annually. This forecast uses projected rate increases, capital spending, debt service, inflation assumptions and other financial variables to ensure our debt service coverage ratio is in-line with similarly rated, strong AA peers.

The Community's Role

Our ratepayers can help control their costs by helping us control ours. Ensuring storm water runoff from downspouts, area drains, and sump pumps is not directed to the sanitary sewer system, and ensuring privately owned service piping is well maintained and leak free will reduce the amount of water entering the sewer system. This ultimately lowers our costs to pump and treat the region's wastewater. Collecting fats, oils and grease in a container for disposal in the trash, as opposed to pouring them down the drain, reduces wastewater system maintenance and operating costs. Proper disposal of unused medications (and other substances) prevents them from reaching our treatment plants, which are not designed for removal of such substances. Our ratepayers can make a difference by not flushing unused medications down the sink or the toilet. Every flush counts.

As we reflect on nearly 81 years of protecting public health and the waters of Hampton Roads, we remember the mandate so boldly declared by those environmentally concerned Virginians in 1940. It was their foresight that allows us to enjoy the waters of Hampton Roads today. It will take our continued innovation, investment and foresight to ensure future generations will inherit clean waterways and be able to keep them clean.

Sincerely,



Jay A. Bernas, MBA, PE
General Manager

Principal Officials

May 24, 2022

COMMISSIONERS

Frederick N. Elofson, CPA, Chair

Stephen C. Rodriguez, Vice-Chair

Michael E. Glenn

Vishnu K. Lakdawala, PhD

Willie Levenston, Jr.

Nancy J. Stern

Elizabeth A. Taraski, PhD

Ann W. Templeman

COMMISSION SECRETARY

Jennifer L. Cascio

SENIOR STAFF

Jay A. Bernas, MBA, PE
General Manager

(Vacant)
Director of Finance/CFO
and Treasurer

Charles B. Bott, PhD, PE,
BCEE
Director of Water Technology
And Research

Donald C. Corrado
Director of Information Technology

Steven G. de Mik, MBA, CPA
Director of Operations

Dorissa Pitts-Paige, PHR,
IPMA-SCP, SHRM-SCP
Director of Talent Management

Bruce W. Husselbee, PhD, PE, DBIA
Director of Engineering

Paula A. Hogg
Director of Water Quality

Leila Rice, APR
Director of Communications

COUNSEL

Sands Anderson, PC
General Counsel

AquaLaw, PLC
Special Counsel

Norton Rose Fulbright US, LLP
Bond Counsel

Key Facts

Service Area and Operations

Date Established	November 5, 1940
Communities Served	20 communities encompassing 4,998 square miles HRSD is a political subdivision of the Commonwealth of Virginia, created for the specific purpose of water pollution abatement in Hampton Roads by providing a system of interceptor mains and wastewater treatment plants.
Population Served	About 1.9 million, nearly one-fifth of Virginia's population, reside in HRSD's service area.

Operation and Facilities

No. of Positions (FY-2023)	878
Miles of Interceptor Systems	540 Miles
Wastewater Treated	154 million gallons per day average
Wastewater Capacity	225 million gallons per day average

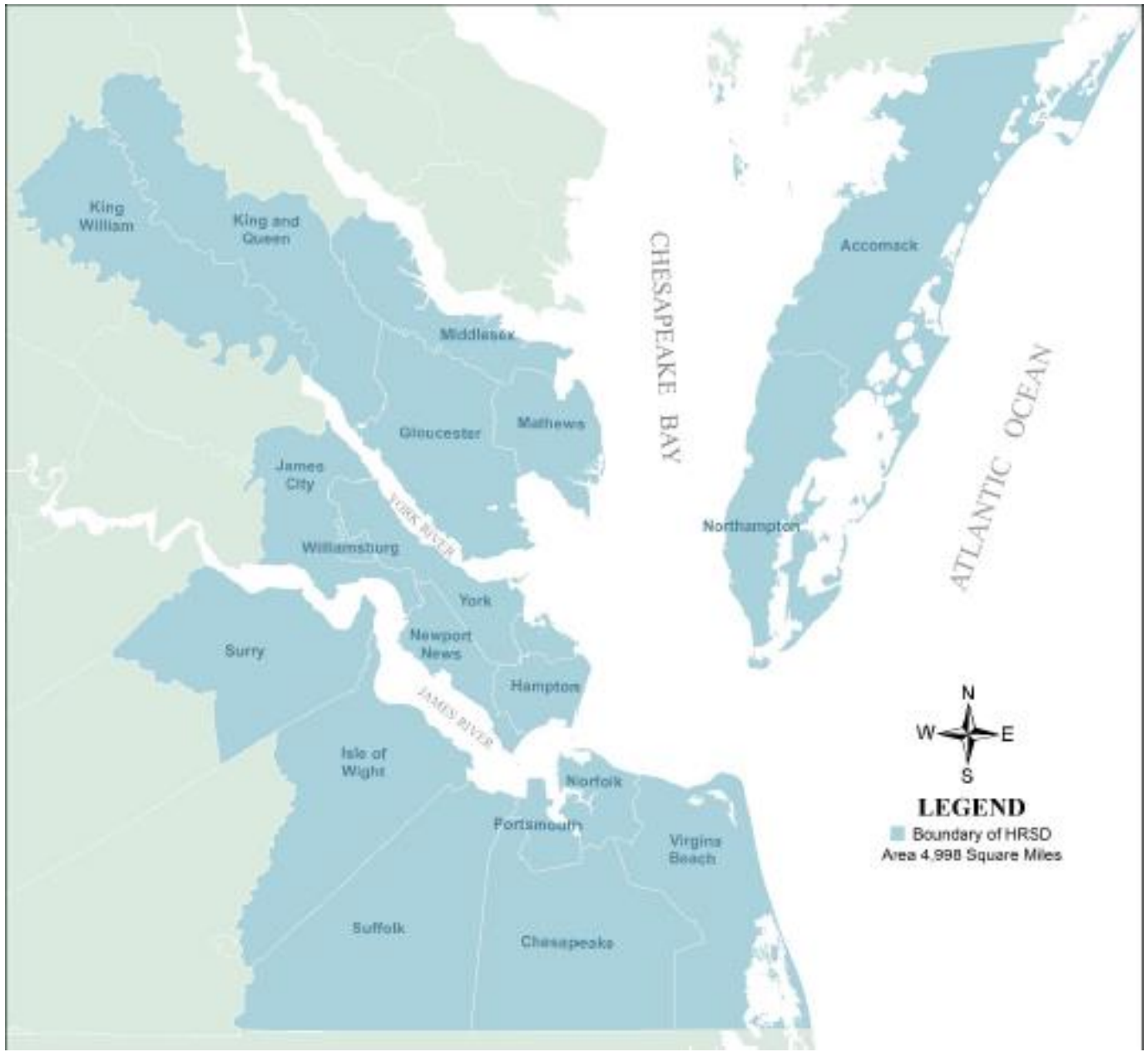
Financial Information

Bond Ratings

Ratings Agency	Senior Debt	Subordinate Long-term	Subordinate Short-term
Standard & Poor's	AA+	AA+	A-1+
Fitch Ratings	AA+	AA	F1+
Moody's Investors Service	Aa1	Aa1	n/a

Operating Budget (FY-2023)	\$387,849,000
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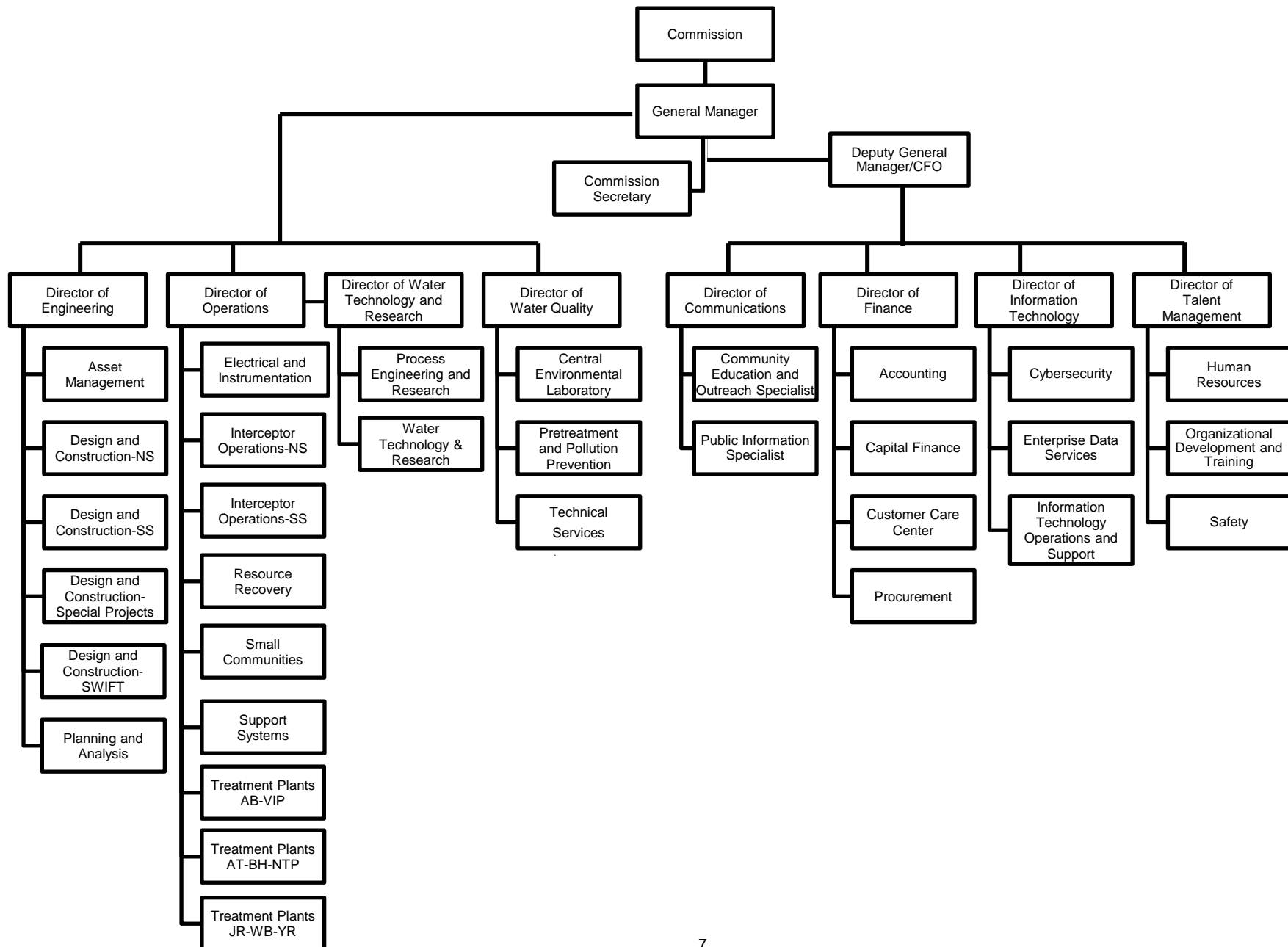
HRSD Service Area



10/2020

HRSD Organization Chart

July 1, 2022



History of HRSD

HRSD can trace its beginnings to 1925 when the Virginia Department of Health condemned a large oyster producing area in Hampton Roads. The closure resulted in the Virginia General Assembly creating in 1927 a "Commission to Investigate and Survey the Seafood Industry of Virginia." Other studies recommended a public body to construct and operate a sewage system in the area. HRSD was named after Hampton Roads, a ship anchorage used for five centuries located near the convergence of the James, Elizabeth and Nansemond Rivers, before they flow into the Chesapeake Bay in southeastern Virginia.

In 1934, the Virginia General Assembly created the Hampton Roads Sanitation Disposal Commission with instructions to plan the elimination of pollution in Hampton Roads. Recommendations were made to the General Assembly, which resulted in the Sanitary Districts Law of 1938, along with "an Act to provide for and create the Hampton Roads Sanitation District." This Act required the qualified voters within HRSD to decide in a general election on November 8, 1938, if they favored creation of such a District. This referendum failed to gain a majority by about 500 votes out of nearly 20,000 votes cast. This led to a revision of the Act and another referendum was held on November 5, 1940, which resulted in a majority vote for the creation of the Hampton Roads Sanitation District.

The Enabling Act provides for HRSD to operate as a political subdivision of the Commonwealth of Virginia for the specific purpose of water pollution abatement in Hampton Roads by providing a system of interceptor mains and wastewater treatment plants. Its affairs are controlled by a Commission of eight members appointed by the Governor for four-year terms. Administration is under the direction of a General Manager, supported by department directors and their staffs.

HRSD began operations on July 1, 1946, using facilities acquired from the United States Government. The Warwick County Trunk Sewer, HRSD's first construction project, began on June 26, 1946, and was funded by HRSD's \$6.5 million Primary Pledge Sewer Revenue Bonds, dated March 1, 1946. The first treatment plant, the Army Base Plant, began operation on October 14, 1947. Since that time, the facilities of HRSD have grown to provide sanitary sewer service to all major population centers in southeastern Virginia. The population served has increased from nearly 288,000 in 1940 to about 1.7 million in 2020.

Throughout its rich history HRSD has earned many of its industry's most prestigious awards. This tradition continued as the National Association of Clean Water Agencies (NACWA) presented Peak Performance Awards for outstanding compliance with National Pollutant Discharge Elimination System (NPDES) permits to the following HRSD treatment plants during the year ended June 30, 2021: Atlantic—Platinum Award (6 consecutive years of compliance), Boat Harbor—Platinum (19 consecutive years), James River—Platinum 7 consecutive years), Nansemond—Platinum (19 consecutive years), Virginia Initiative Plant—Platinum (25 consecutive years), Williamsburg—Platinum (26 consecutive years) and York River—Platinum (13 consecutive years).

Additional awards and honors received during the year ended June 30, 2021 include the Water Research Foundation (WRF) Outstanding Subscriber Award for Applied Science; The American Council of Engineering Companies (ACEC) National Grand Award for the nutrient reduction improvements project at the Virginia Initiative Plant) and the Elizabeth River Project's Sustained Distinguished Performance Award.

Rate Schedules

WASTEWATER TREATMENT RATE SCHEDULE

<u>Service</u>	<u>FY-2023</u>	<u>FY-2022</u>
Flow (monthly basis)		
Per CCF *	\$ 6.97	\$ 6.39
Minimum charge (per day)	0.30	0.30
Surcharge, per milligrams/liter per CCF	<u>In Excess of</u>	<u>In Excess of</u>
Biochemical Oxygen Demand (BOD)	297 mg/L \$ 0.000185	297 mg/L \$ 0.000176
Total Suspended Solids (TSS)	282 mg/L 0.000611	282 mg/L 0.000584
Total Phosphorus (TP)	7 mg/L 0.009531	7 mg/L 0.010050
Total Kjeldahl Nitrogen (TKN)	57 mg/L 0.002705	57 mg/L 0.002660
Surcharge, per 100 pounds		
BOD	297 mg/L \$ 2.97	297 mg/L \$ 2.83
TSS	282 mg/L 9.79	282 mg/L 9.34
TP	7 mg/L 152.67	7 mg/L 160.99
TKN	57 mg/L 43.33	57 mg/L 42.61
Other Approved Hauled Wastes (per gallon)	\$ 0.1812	\$ 0.1717
Fats, Oils and Grease (FOG) (per gallon)	\$ 0.3339	\$ 0.2737
Town Wholesale Treatment (per 1000 gallons)	\$ 3.55	\$ 3.55
Residential flat rate (per day)	\$ 1.93	\$ 1.74

* CCF = 100 Cubic Feet (approximately 748 gallons)

VOLUME BASED FACILITY RATE SCHEDULE

<u>Meter Size</u>	<u>FY-2023</u>	<u>FY-2022</u>
5/8 Inch	\$ 2,285	\$ 2,055
3/4 Inch	4,210	4,210
1 Inch	7,410	7,410
1 ½ Inch	17,590	16,645
2 Inch	34,415	31,465
3 Inch	88,570	80,405
4 Inch	173,245	156,530
6 Inch	445,910	400,625
8 Inch	872,130	780,840
10 Inch	1,467,435	1,310,665
12 Inch	2,244,900	2,001,460
14 Inch	3,215,910	2,863,155
16 Inch	4,390,660	3,904,635

SMALL COMMUNITIES RATE SCHEDULE

<u>Flow (monthly basis per 1,000 gallons)</u>	<u>FY-2023</u>	<u>FY-2022</u>
Accomack	\$ 15.13	\$ 14.28
King William	15.37	14.54
Mathews	15.13	14.28
Middlesex/Urbanna	15.13	14.28
Surry	15.13	14.28
West Point	15.13	14.28
Residential flat rate (per day)		
Accomack	\$ 2.02	\$ 1.90
King William	2.05	1.94
Mathews	2.02	1.90
Surry	2.02	1.90
Urbanna	2.02	1.90
West Point	2.02	1.90
Minimum charge - metered accounts (per day)	\$ 0.30	\$ 0.30

FEES

	<u>FY-2023</u>	<u>FY-2022</u>
Damaged meter/antenna (plus cost of meter/antenna)	\$ 250	\$ 250
Damaged lock	100	100
Service restoration	100	100
Meter reading (customer-owned meter)	75	75
Inaccessible meter	50	50
Access card replacement	25	25
Returned payments	25	25
Delinquency service trip	15	15
Account documentation	10	10
Deduction meter	2	2

Reader's Guide to the Annual Budget

PURPOSE

The Annual Budget is an instrument that sets HRSD's budgetary policy and authorization to raise revenues and spend funds each fiscal year. The development of the Annual Budget is guided by HRSD's mission and vision statements:

- HRSD's mission is to protect public health and the waters of Hampton Roads by treating wastewater effectively.
- HRSD's vision is future generations will inherit clean waterways and be able to keep them clean.

ANNUAL BUDGET OVERVIEW

HRSD's Annual Budget contains the following sections:

Financial Forecast

This section provides a high level, 20-year forecast of projected wastewater treatment rate increases, operating revenues and expenses, capital improvements and related funding sources, amounts contributed to and fiscal year-end balances of cash and investment reserves, and selected financial ratios that help to measure the financial health of HRSD.

The forecast is an inflationary based model where trends from past fiscal years and proposed operating budgets are used to forecast future operating needs. Transfers to reserves and to the Capital budget are forecast to be in amounts that are not less than parameters established within HRSD's Financial Policy. Debt service is based on different sources of future funding: Virginia Clean Water Revolving Fund, Water Infrastructure Finance and Innovation Act (WIFIA), interim financing and revenue bonds. Interest rates are based on known rates or historical averages.

Operating Budget

The Operating Budget represents the authorization by the HRSD Commission to spend funds directly related to operating and maintaining HRSD's programs and assets during the fiscal year. This section includes each department's annual operating budgets. Those expenses that are not attributable to a specific department are assigned to "General Expenses." Transfers represent authorization to transfer revenues raised from operations to either the Capital Budget or to various reserves established in HRSD's Financial Policy. The Operating Budget Summary provides the budget by department and major object code classification. Department Budgets and General Expenses, Debt Service and Transfers detail budget expenditures by major object code classification. The number of full-time positions authorized for the fiscal year is provided by department.

Capital Budget

The Capital Budget represents a plan of specific, major capital improvements over a period of ten fiscal years. The Capital Budget is not an approval or appropriation of funds for individual projects. There is no authorization or funding for individual projects until the Commission acts on the specific project. The Commission formally authorizes spending for individual projects throughout a fiscal year and generally upon project initiation.

The Summary Schedule details the funding sources for capital improvements as well as planned expenditures.

A formal, detailed, Capital Improvement Program with more specific project information is available at <https://www.hrsd.com/cip>

HRSD's budget authorizations, capital improvement plans, user rate setting practices and other significant financial practices are guided by HRSD's Financial Policy and Revenue Policy. The Financial Policy and Revenue Policy are available at <http://www.hrsd.com/finance>

HRSD's Rate Schedule is available at <http://www.hrsd.com/finance>

BUDGETARY PROCESS

HRSD prepares its Annual Budget under the provisions of its enabling legislation and its Trust Agreement, dated March 1, 2008. In accordance with those provisions, the following process is used to adopt the Annual Budget:

The process begins in late December with the issuance of the Annual Budget Instructions by the General Manager. Each department completes its Operating Budget by March 1 for the General Manager's review.

The HRSD Commission appoints a Finance Committee which typically consists of two Commissioners. The committee meets in early April to review the budgets. The Commission reviews these budgets during its April meeting.

The final Annual Budget, which incorporates the Operating and Capital Budgets, is presented at the May Commission meeting for adoption. The Commission simultaneously adopts the budget and any resulting wastewater rate schedule changes. All rate adjustments must be publically advertised four consecutive weeks before they can take effect.

The HRSD Commission approves any budget amendments during the fiscal year.

BUDGETARY ACCOUNTING AND CONTROL

HRSD operates in accordance with annual operating and capital budgets prepared on a basis of accounting that is different from generally accepted accounting principles.

The Operating Budget is adopted by department, with budgetary controls exercised administratively by management at the department level. The General Manager is authorized to transfer funds among departments without further approval by the Commission. Appropriations

lapse at the end of the fiscal year. Valid, outstanding encumbrances (those for which performance under a contract is expected in the next year) are re-appropriated without further approval by the Commission and become part of the subsequent year's budget.

The Capital Budget represents a ten-year plan. Funds for the Capital Budget are adopted throughout a fiscal year on a project basis. Transfers among projects require approval by the Commission. Appropriations for these budgets continue until the purpose of the appropriation has been fulfilled.

Glossary of Financial Terms

Adjusted Days Cash on Hand: Days Cash on Hand that excludes accrued debt service, the Risk Reserve, the Renewal and Replacement Reserve, and cash budgeted for the CIP in the next fiscal year.

Appropriation: An authorization granted by the Commission to incur obligations for specific purposes. Appropriations are usually limited to amount, purpose and time.

Basis of Accounting: HRSD's financial statements report the financial position and results of operations of HRSD in accordance with generally accepted accounting principles in the United States of America (GAAP).

Bond Ratings: A grade given to bonds that represents a measure of their credit quality. Private independent rating services such as Standard & Poor's, Moody's and Fitch provide these evaluations of a bond issuer's financial strength, or its the ability to pay a bond's principal and interest in a timely fashion.

Capital Improvement Program (CIP): Ten-year plan for major non-recurring facility, infrastructure, or acquisition expenditures that expand or improve HRSD and/or locality assets. Projects included in the CIP include physical descriptions, implementation schedules, year of expenditure cost and funding source estimates, and an indication of HRSD Commission priorities and community benefits

Centum Cubic Feet (CCF): Typical unit in which industrial-consumption of natural gas or water is measured; each CCF being 100 cubic-feet.

CIP Percent Cash Funded: Percent of each year's capital improvement plan funded with cash through transfers from operations. HRSD's Financial Policy requires that at least 15 percent of each year's planned capital improvements be funded with cash. This ratio indicates the amount of capital improvements that are not leveraged.

Days Cash on Hand: Measured by current and non-current unrestricted cash and investments, plus any restricted cash and investments, if available for general system purposes, divided by Operating Expenses, divided by 365.

Debt Service: Amount of money necessary to pay principal and interest on bonds outstanding.

Debt Service as a Percent of Revenues: Total revenues divided by total debt service. This ratio measures the debt service burden compared to total revenues.

Risk Management Reserve: HRSD maintains a self-insurance program for some of its risk exposures. HRSD'S Financial Policy requires HRSD to maintain a Risk Management Reserve as of the end of the fiscal year of not less than 25 percent of projected annual self-insured claims costs for known, retained risks.

Senior Debt Service Coverage: Current-year revenues available for debt service divided by current-year senior lien debt service. This ratio indicates the financial margin to meet current

senior lien debt service with current revenues available. HRSD's Financial Policy requires that Senior Debt Service Coverage will not be less than 1.5 times senior lien debt service. When calculating compliance with this coverage requirement, HRSD may make reasonable adjustments to the net revenues as presented on a basis consistent with generally accepted accounting principles. HRSD's Senior Trust Agreement requires Senior Debt Service Coverage, which is determined by dividing the Income Available for Debt Service by the Maximum Annual Debt Service, will not be less than 1.2 times.

Total Debt Service (Adjusted): Calculated in accordance with HRSD's Subordinate Trust Agreement, the ratio determined by dividing the Net Revenues by annual debt service. In such calculation, funds spent on Locality Assets may be excluded from the calculation of Net Revenues under the circumstances described within the definitions of Net Revenues and Operating Expenses. Annual debt service will be based on actual principal and interest payments during the year (i.e., not accrual based).

Total Debt Service Coverage Ratio (GAAP): Calculated in accordance with HRSD's Senior Trust Agreement, the ratio determined by dividing the Net Revenues by annual debt service. In such calculation, funds spent on Locality Assets are considered an expense. Annual debt service will be based on actual principal and interest payments during the year (i.e., not accrual based).

Trust Agreement: The formal agreement between bond holders, acting through a trustee, and HRSD.

Unrestricted Cash: Unrestricted cash and investments at fiscal year-end that are not earmarked for another purpose.

Financial Forecast



Financial Forecast (in thousands)		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Operating Budget Forecast																					
Projected Annual Water Consumption Decline			-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	0.0%	0.0%
Projected Wastewater Rate Increase		9.1%	9.0%	7.0%	7.0%	7.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Projected Wastewater Rate , \$/ccf		\$6.97	\$7.60	\$8.13	\$8.70	\$9.31	\$9.78	\$10.27	\$10.78	\$11.32	\$11.89	\$12.48	\$13.10	\$13.76	\$14.45	\$15.17	\$15.93	\$16.73	\$17.57	\$18.45	\$19.37
Revenues																					
Operating Revenues		\$ 376,126	\$ 404,529	\$ 427,477	\$ 451,931	\$ 477,839	\$ 496,313	\$ 515,344	\$ 534,909	\$ 555,462	\$ 576,968	\$ 598,923	\$ 621,771	\$ 645,935	\$ 670,914	\$ 696,676	\$ 723,634	\$ 751,744	\$ 780,962	\$ 819,273	\$ 859,326
Non-operating Revenues		11,723	16,042	16,322	16,609	17,181	19,340	20,852	21,216	21,675	23,491	23,917	24,356	24,807	25,271	26,942	27,391	27,937	28,575	29,238	29,920
Total Revenues		387,849	420,571	443,799	468,540	495,019	515,653	536,196	556,125	577,137	600,459	622,841	646,127	670,741	696,185	723,618	751,026	779,681	809,537	848,511	889,246
		YOY Op Rev	7.6%	5.7%	5.7%	5.7%	3.9%	3.8%	3.8%	3.8%	3.9%	3.8%	3.8%	3.9%	3.9%	3.8%	3.9%	3.9%	3.9%	4.9%	4.9%
Operating Expenses																					
Personal Services		63,288	65,440	67,665	69,966	72,345	74,804	77,348	79,977	82,697	85,508	88,074	90,716	93,437	96,240	99,128	102,101	105,164	108,319	111,569	114,916
Fringe Benefits		26,514	26,641	27,789	28,989	30,242	31,552	32,921	34,352	35,849	37,414	39,005	40,667	42,405	44,222	46,121	48,107	50,184	52,357	54,629	57,005
Materials And Supplies		20,808	22,265	23,823	25,491	27,020	28,641	30,073	31,577	33,156	34,814	35,997	37,221	38,487	39,795	41,148	42,547	43,994	45,490	47,036	48,636
Transportation		1,003	1,073	1,148	1,228	1,302	1,380	1,449	1,522	1,598	1,678	1,735	1,794	1,855	1,918	1,983	2,050	2,120	2,192	2,267	2,344
Transportation Fuels		788	843	902	965	1,023	1,084	1,139	1,196	1,255	1,318	1,363	1,409	1,457	1,507	1,558	1,611	1,666	1,722	1,781	1,841
Utilities		14,949	15,995	17,115	18,313	19,412	20,576	21,605	22,686	23,820	25,011	25,861	26,740	27,650	28,590	29,562	30,567	31,606	32,681	33,792	34,941
Chemical Purchases		12,472	13,345	14,279	15,279	16,196	17,167	18,026	18,973	19,873	20,867	21,576	22,310	23,068	23,853	24,664	25,502	26,369	27,266	28,193	29,152
Contractual Services		38,372	40,291	42,305	44,420	46,642	48,974	51,422	53,993	56,693	59,528	61,552	63,644	65,808	68,046	70,359	72,752	75,225	77,783	80,427	83,162
Consulting Services		1,990	2,089	2,194	2,303	2,418	2,539	2,666	2,800	3,087	3,192	3,192	3,300	3,412	3,528	3,648	3,772	3,901	4,033	4,170	4,312
Miscellaneous Expenses		7,512	7,800	8,101	8,414	8,740	9,081	9,436	9,807	10,193	10,597	10,957	11,329	11,715	12,113	12,525	12,951	13,391	13,846	14,317	14,804
Bond Issuance Cost		500	-	-	-	-	-	2,078	-	-	-	-	-	-	-	2,144	-	-	2,053	2,113	-
Capital Assets		448	461	475	489	504	519	535	551	567	584	604	625	646	668	690	714	738	763	789	816
Other Costs (SWIFT O&M, Plant Consolidation)		-	-	-	-	9,646	10,191	38,752	40,462	42,241	79,805	82,654	85,601	88,647	91,797	124,730	129,106	133,632	138,311	143,150	148,153
Total Operating Appropriations from Budget		188,643	196,244	205,796	215,857	235,489	246,510	287,450	297,849	310,882	360,210	372,569	385,356	398,587	412,276	458,260	471,782	487,991	506,817	524,234	540,081
		YOY Op Exp	4.0%	4.9%	4.9%	9.1%	4.7%	16.6%	3.6%	4.4%	15.9%	3.4%	3.4%	3.4%	3.4%	11.2%	3.0%	3.4%	3.9%	3.4%	3.0%
Existing Debt Service		67,732	70,762	71,264	71,032	70,854	67,309	72,204	76,852	77,267	72,287	70,321	69,228	68,665	65,687	65,681	65,379	50,529	42,667	35,362	61,982
Projected Debt Service (Clean Water, WIFIA, LOC)		1,802	11,701	19,936	22,763	26,159	26,396	51,082	39,286	39,634	41,231	45,864	48,460	49,850	48,607	72,164	62,884	66,312	93,948	108,748	108,740
Total Debt Service		69,533	82,462	91,200	93,795	97,013	93,705	123,286	116,138	116,901	113,518	116,186	117,689	118,514	114,294	137,846	128,262	116,841	136,614	144,110	170,722
Transfer to Risk Management Reserve		260	6	139	143	147	152	156	161	166	171	176	181	187	192	198	204	210	216	223	230
Transfer to General Reserve (Unrestricted Cash)		-	6,048	9,553	10,061	19,632	11,021	40,940	10,399	13,032	49,328	12,359	12,787	13,230	13,689	45,984	13,521	16,210	18,825	17,417	15,848
Transfer to Capital Improvement Plan (PAYGO)		129,413	135,811	137,111	148,684	142,738	164,265	84,363	131,578	136,156	77,232	121,550	130,113	140,223	155,733	81,330	137,256	158,429	147,064	162,527	162,365
Total Approriations for Debt Service and Transfers		199,206	224,327	238,002	252,683	259,530	269,143	248,745	258,276	266,255	240,249	250,272	260,771	272,155	283,909	265,358	279,244	291,689	302,720	324,277	349,165
Total Appropriations		\$ 387,849	\$ 420,571	\$ 443,799	\$ 468,540	\$ 495,019	\$ 515,653	\$ 536,196	\$ 556,125	\$ 577,137	\$ 600,459	\$ 622,841	\$ 646,127	\$ 670,741	\$ 696,185	\$ 723,618	\$ 751,026	\$ 779,681	\$ 809,537	\$ 848,511	\$ 889,246

Capital Improvement Budget Forecast

Beginning Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sources of Funds																					
Debt funded (Revenue Bonds and Interim Financing)		-	-	-	-	-	-	351,566	-	-	-	-	-	-	-	362,792	-	-	347,251	357,473	-
Va Clean Water Revolving Loan Fund		100,000	100,000	100,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WIFIA		172,508	286,441	175,481	28,593	25,004	14,420	36,493	49,953	21,781	10,891	15,664	36,349	89,766	45,386	-	-	-	-	-	-
Water Quality Improvement Fund (WQIF) Grants		-	17,500	20,000	30,000	29,000	7,500	7,500	5,000	2,500	-	-	-	-	-	-	-	-	-	-	-
HRSD - Cash		129,413	135,811	137,111	148,684	142,738	164,265	84,363	131,578	136,156	77,232	121,550	130,113	140,223	155,733	81,330	137,256	158,429	147,064	162,527	162,365
Reimbursements		6,635	23,291	14,186	2,485	6,295	5,936	5,002	5,002	1,000	-	-	-	-	-	-	-	-	-	-	-
Line of Credit (Negative = Paid Off)		2,444	67,956	83,222	100,239	6,963	(9,621)	(284,923)	8,468	38,563	111,876	62,786	33,537	(29,989)	(1,119)	(224,121)	82,744	121,571	(204,315)	-	77,635
Total Capital Resources		411,000	631,000	530,000	310,000	210,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	220,000	220,000	280,000	290,000	520,000	240,000
Uses of Funds - Capital Expenditures		411,000	631,000	530,000	310,000	210,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	220,000	220,000	280,000	290,000	520,000	240,000
Ending Capital Resources		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Reserves Balance Forecast

Total Unrestricted Cash	\$ 324,233	\$ 336,686	\$ 347,677	\$ 369,454	\$ 383,287	\$ 415,987	\$ 377,181	\$ 434,957	\$ 452,733	\$ 443,308	\$ 500,161	\$ 521,693	\$ 545,220	\$ 574,612	\$ 546,390	\$ 616,042	\$ 653,634	\$ 661,312	\$ 694,415	\$ 710,330
PAYGO (includes beginning balance, if available)	129,413	135,811	137,111	148,684	142,738	164,265	84,363	131,578	136,156	77,232	121,550	130,113	140,223	155,733	81,330	137,256	158,429	147,064	162,527	162,365
Risk Reserve	4,625	4,631	4,770	4,913	5,060	5,212	5,368	5,529	5,695	5,866	6,042	6,223	6,410	6,602	6,800	7,004	7,214	7,431	7,654	7,883
Adjusted Unrestricted Cash	\$ 190,196	\$ 196,244	\$ 205,796	\$ 215,857	\$ 235,489	\$ 246,510	\$ 287,450	\$ 297,849	\$ 310,882	\$ 360,210	\$ 372,569	\$ 385,356	\$ 398,587	\$ 412,276	\$ 458,260	\$ 471,782	\$ 487,991	\$ 506,817	\$ 524,234	\$ 540,081
Daily Cost to Operate	\$ 517	\$ 538	\$ 564	\$ 591	\$ 645	\$ 675	\$ 788	\$ 816	\$ 852	\$ 987	\$ 1,021	\$ 1,056	\$ 1,092	\$ 1,130	\$ 1,256	\$ 1,293	\$ 1,337	\$ 1,389	\$ 1,436	\$ 1,480
Adjusted Days Cash on Hand (excludes PAYGO and Risk)	368 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days	365 days

Financial Ratios Forecast

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Operating Budget



Operating Budget

	FY-2023	Adopted FY-2022	Increase/ (Decrease)	Percent Change
Operating Revenues				
Wastewater Treatment Charges	\$ 374,842,000	\$ 344,370,000	\$ 30,472,000	9%
Miscellaneous	1,284,000	1,190,000	94,000	8%
Total Operating Revenue	376,126,000	345,560,000	30,566,000	9%
Non-Operating Revenues				
Wastewater Facility Charges	7,150,000	7,320,000	(170,000)	(2%)
Investment Earnings	1,570,000	1,210,000	360,000	30%
Build America Bond Subsidy	2,026,000	2,095,000	(69,000)	(3%)
Other	977,000	1,310,000	(333,000)	(25%)
Total Non-Operating Revenues	11,723,000	11,935,000	(212,000)	(2%)
Total Revenues and Transfers	<u>\$ 387,849,000</u>	<u>\$ 357,495,000</u>	<u>\$ 30,354,000</u>	8%
Operating Appropriations				
General Management	\$ 456,457	\$ 465,516	\$ (9,059)	(2%)
Communications	640,511	456,003	184,508	40%
Finance	15,845,731	15,303,085	542,646	4%
Information Services	17,783,194	16,711,258	1,071,935	6%
Talent Management	2,614,742	2,532,647	82,095	3%
Operations	117,539,113	111,349,610	6,189,503	6%
Engineering	8,116,929	7,108,883	1,008,046	14%
Water Quality	16,577,131	15,896,141	680,990	4%
General Expenses	9,069,227	8,639,727	429,500	5%
Total Operating Appropriations	188,643,034	178,462,870	10,180,164	6%
Appropriations for Debt Service and Transfers				
Debt Service	69,533,000	64,308,209	5,224,791	8%
Transfer to CIP	129,412,966	114,463,921	14,949,046	13%
Transfer to Risk Management Reserve	260,000	260,000	-	0%
Total Appropriations for Debt Service and Transfers	199,205,966	179,032,130	20,173,837	11%
Total Appropriations	<u>\$ 387,849,000</u>	<u>\$ 357,495,000</u>	<u>\$ 30,354,001</u>	8%

Operating Budget Summary

	General			Information	Talent				Water	General
	Management	Communications	Finance	Technology	Management	Operations	Engineering		Quality	Expenses
Personal Services	\$ 304,693	\$ 360,261	\$ 6,545,190	\$ 5,463,613	\$ 1,713,691	\$ 36,510,683	\$ 5,109,944		\$ 8,740,032	\$ (1,459,809)
Fringe Benefits	79,264	122,250	2,573,254	1,778,021	585,149	15,007,975	1,782,671		3,448,350	1,136,636
Materials & Supplies	10,000	45,000	104,205	1,458,100	68,000	8,805,130	25,050		1,768,500	26,000
Transportation	12,000	8,500	7,650	38,700	22,600	1,658,041	15,420		27,700	-
Utilities	-	-	312,000	1,300,000	-	12,809,119	-		2,700	525,000
Chemical Purchases	-	-	-	-	-	12,472,034	-		-	-
Contractual Services	20,000	95,000	6,047,609	6,124,260	22,000	21,662,969	998,200		1,889,500	8,031,950
Major Repairs	-	-	-	1,247,000	-	7,174,970	-		76,000	-
Capital Assets	-	-	-	-	-	447,684	-		-	-
Miscellaneous Expense	30,500	9,500	255,823	373,500	203,302	990,508	185,643		624,350	809,450
Operating Appropriations	\$ 456,457	\$ 640,511	\$ 15,845,731	\$ 17,783,194	\$ 2,614,742	\$ 117,539,113	\$ 8,116,929	\$ 16,577,131	\$ 9,069,227	

Full-time Positions:

Current	2	3	102	51	17	533	45	119
Changes	0	1	1	3	1	(9)	8	1
Budgeted	2	4	103	54	18	524	53	120

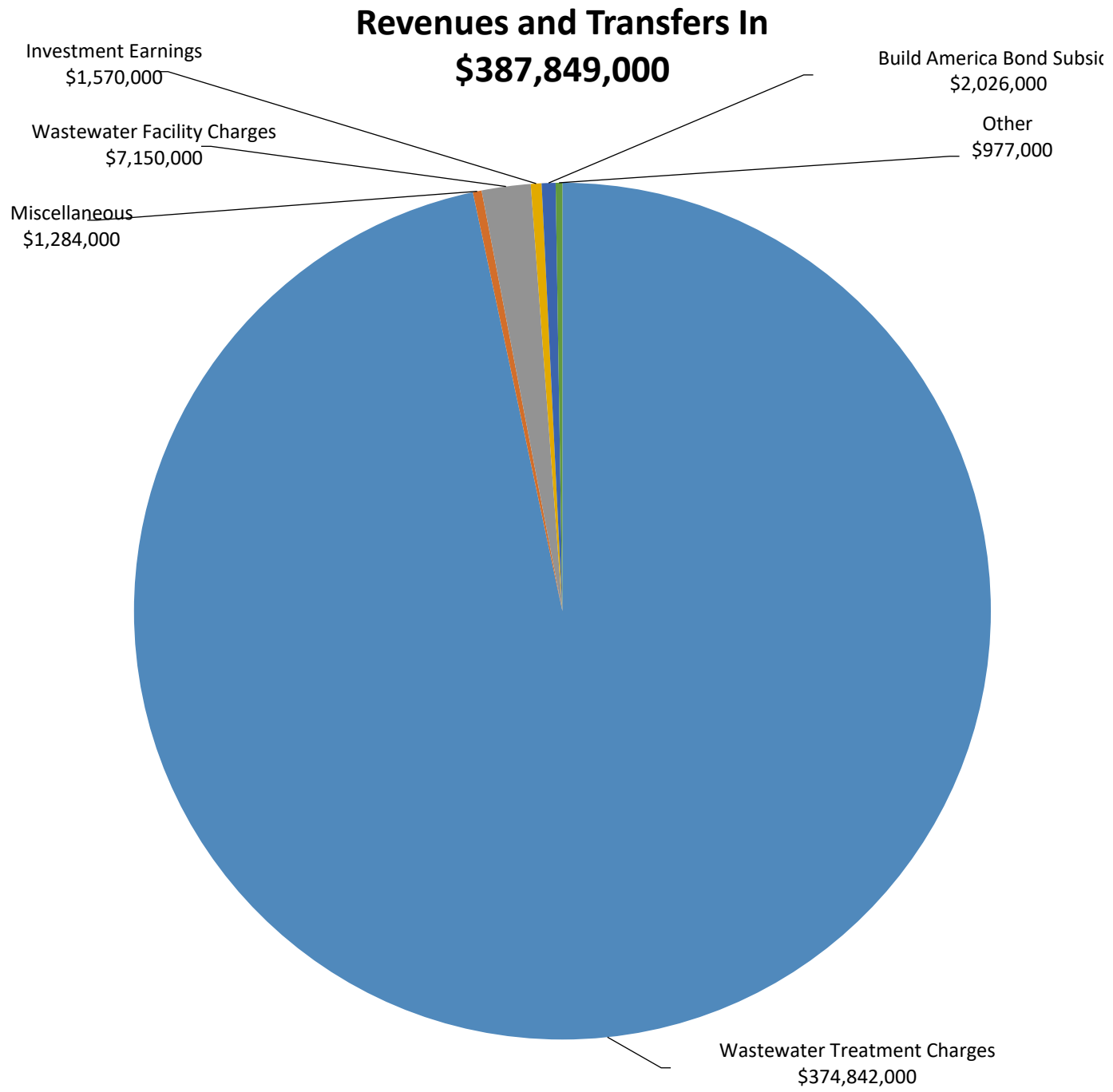
Operating Budget Summary

	FY-2023	Percent of Budget	FY-2022 Budget	Increase/ Decrease	Percent Inc/(Dec)
Personal Services	\$ 63,288,297	16.3%	\$ 62,776,055	\$ 512,242	1%
Fringe Benefits	26,513,570	6.8%	25,156,746	1,356,824	5%
Materials & Supplies	12,309,985	3.2%	8,756,428	3,553,557	41%
Transportation	1,790,611	0.5%	1,498,806	291,805	19%
Utilities	14,948,819	3.9%	12,289,261	2,659,558	22%
Chemical Purchases	12,472,034	3.2%	8,651,935	3,820,099	44%
Contractual Services	44,891,488	11.6%	44,475,594	415,894	1%
Major Repairs	8,497,970	2.2%	11,349,820	(2,851,850)	(25%)
Capital Assets	447,684	0.1%	470,000	(22,316)	(5%)
Miscellaneous Expense	3,482,576	0.9%	3,038,225	444,351	15%
Operating Appropriations	<u>188,643,034</u>	48.6%	<u>178,462,870</u>	<u>10,180,163</u>	6%
Debt Service Costs	69,533,000	17.9%	64,308,209	5,224,791	8%
Transfer to CIP	129,412,966	33.4%	114,463,921	14,949,046	13%
Transfer to Risk Management	260,000	0.1%	260,000	0	0%
Appropriations for Debt Service and Transfers	<u>199,205,966</u>	51.4%	<u>179,032,130</u>	<u>20,173,837</u>	11%
	<u><u>\$ 387,849,000</u></u>	100.0%	<u><u>\$ 357,495,000</u></u>	30,354,000	8%

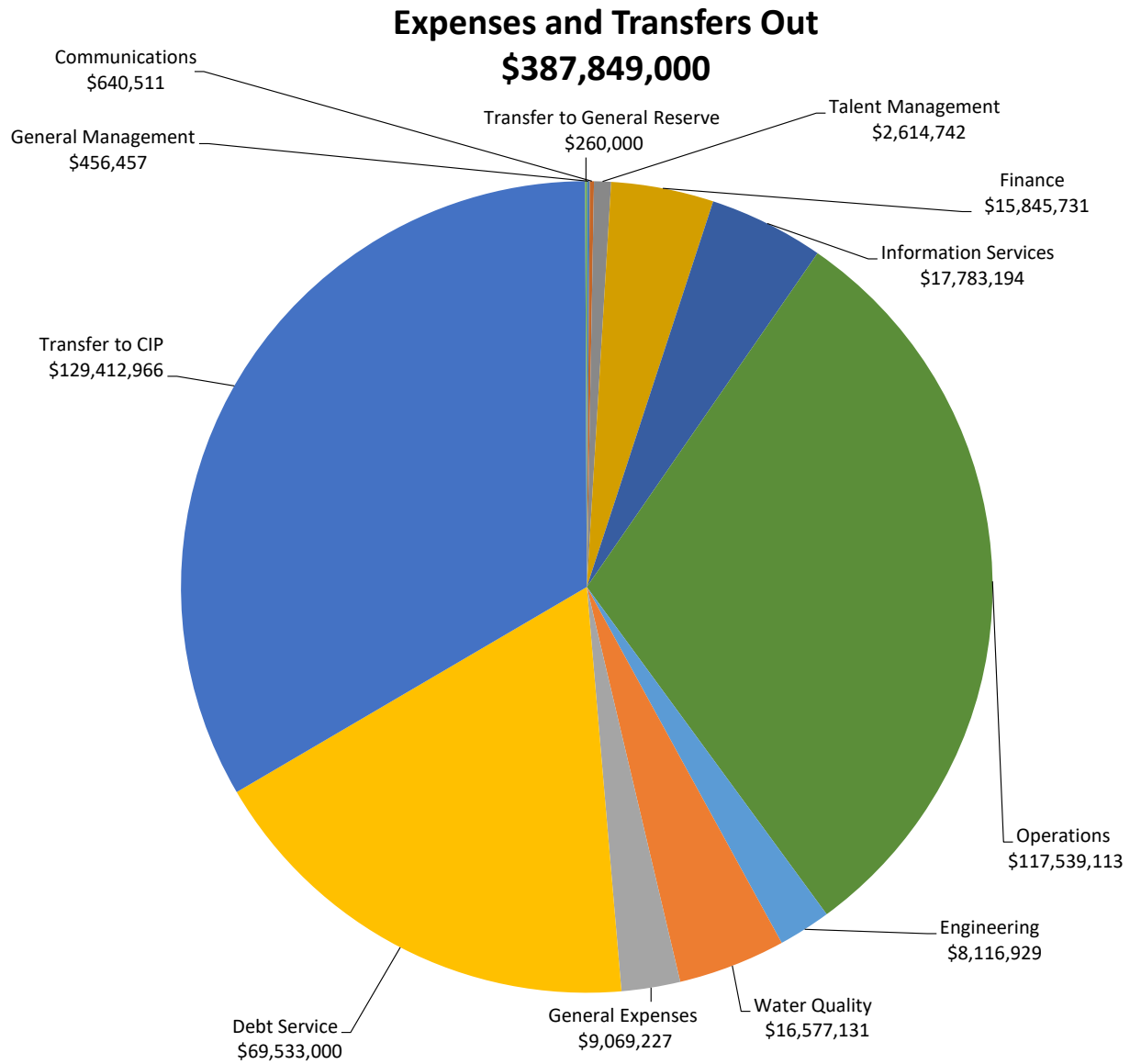
Full-time Positions:

Current	872
Changes	6
Budgeted	878

Operating Budget Charts



Operating Budget Charts



General Management

The General Manager supervises the department directors and the Commission Secretary. The Commission Secretary provides administrative support to the General Manager as well as the HRSD Commission.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 304,693	\$ 342,585	\$ (37,892)	(11%)
Fringe Benefits	79,264	83,431	(4,167)	(5%)
Material & Supplies	10,000	10,000	-	0%
Transportation	12,000	7,000	5,000	71%
Utilities	-	-	-	0%
Chemical Purchases	-	-	-	0%
Contractual Services	20,000	9,000	11,000	122%
Major Repairs	-	-	-	0%
Capital Assets	-	-	-	0%
Miscellaneous	30,500	13,500	17,000	126%
Total	\$ 456,457	\$ 465,516	\$ (9,059)	(2%)

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
General Manager		1		1		1
Commission Secretary	7	1		1		1
Total		2	0	2	0	2

Communications

The Communications Department supports HRSD's mission and vision through public outreach, community engagement, educational programming and environmental and locality partnerships. The department manages communications strategy, internal and external communications, media relations and branding through numerous channels and resources - including publications, traditional media, social media and web, graphic design, speaking engagements, tours and special events.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 360,261	\$ 295,334	\$ 64,926	22%
Fringe Benefits	122,250	94,169	28,082	30%
Material & Supplies	45,000	45,000	-	0%
Transportation	8,500	8,500	-	0%
Utilities	-	-	-	0%
Chemical Purchases	-	-	-	0%
Contractual Services	95,000	-	95,000	0%
Major Repairs	-	-	-	0%
Capital Assets	-	-	-	0%
Miscellaneous	9,500	13,000	(3,500)	(27%)
Total	\$ 640,511	\$ 456,003	\$ 184,508	40%

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Director of Communications	12	1		1		1
Public Information Specialist	6	1		1	1	2
Community Education and Outreach Specialist	6	1		1		1
Total		3	0	3	1	4

Finance Department

The Finance Department is responsible for HRSD's general financial and business functions, including financial reporting, investment portfolio, debt and risk management and customer billing. The Accounting Division handles fiscal affairs such as preparing statements, budgets, management reports and payroll. The Capital Finance Division is responsible for planning and financing the Capital Improvement Program, debt management and compliance, and is the functional lead for the Enterprise Resource Process system. The Customer Care Center Division handles billing, payments, collections, maintenance of customer accounts and liaison with HRSD's customers. The Procurement Division is responsible for purchasing, renting, leasing or otherwise acquiring goods, professional and non-professional services, and certain construction services, managing supplier relationships and disposing of surplus property.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 6,545,190	\$ 6,290,168	\$ 255,022	4%
Fringe Benefits	2,573,254	2,526,643	46,612	2%
Material & Supplies	104,205	104,205	-	0%
Transportation	7,650	8,100	(450)	(6%)
Utilities	312,000	323,000	(11,000)	(3%)
Contractual Services	6,047,609	5,778,819	268,790	5%
Capital Assets	-	-	-	0%
Miscellaneous	255,823	272,150	(16,327)	(6%)
Total	\$ 15,845,731	\$15,303,085	\$ 542,646	4%

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Director of Finance	12	1		1		1
Chief of Accounting & Finance	11	1		1		1
Chief of Capital Finance	11	0	1	1		1
Chief of Compliance & Risk	11	1		1		1
Chief of Customer Care Center	11	1		1		1
Chief of Procurement	11	1		1		1
Business Process Engineer	10	0	1	1		1
Accounting Manager	9	3		3		3
Capital Program Manager	9	1	(1)	0		0
Customer Technology Manager	9	2		2		2
Customer Care Manager	9	2	1	3		3
Business Analyst	8	3	1	4		4
Financial Analyst	8	2		2		2
Grant Administrator	8	0		0	1	1
Procurement Analyst	8	2		2		2
Accounts Payable Supervisor	7	1		1		1
Capital Program Analyst	7	1	(1)	0		0
Customer Care Supervisor	7	4		4		4
Delinquency Management Analyst	7	1		1		1
Project Management System Information Analyst	7	0	1	1		1
Accounts Receivable Specialist	6	2		2		2
Payroll Specialist	6	1		1		1
ProCard & Contract Administrator	6	1		1		1
Procurement Specialist	6	5		5		5
Accounting Coordinator	4	1		1		1
Accounts Payable Coordinator	4	0	3	3		3
Accounts Receivable Technician	4	3		3		3
Customer Care Administrative Coordinator	4	1		1		1
Customer Care Coordinator	4	4		4		4
Procurement Coordinator	4	1		1		1
Account Investigator	3	11	(1)	10		10
Accounts Payable Associate	3	3	(3)	0		0
Customer Care Account Representative	3	38	(2)	36		36
Procurement Administrative Assistant	3	2		2		2
Mail Processing Clerk	2	2		2		2
Total		102	0	102	1	103

Information Technology Department

The Information Technology (IT) Department is responsible for HRSD's computer systems, communication systems, network infrastructure, cellular communications, cyber security, and data management functions. Staff also provides guidance and assistance in the identification and implementation of new technologies, enhancing both organizational efficiency and efficacy. The Cybersecurity Division is responsible for ensuring the safety, integrity, and availability of all HRSD information systems and business data. The Enterprise Data Services Division is responsible for application integration and support, data management, and systems analysis and support. The Information Technology Operations Division supports departments in achieving their goals and objectives, providing the requisite hardware, software, storage, and network connectivity, to meet business and operational requirements.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 5,463,613	\$ 5,054,686	\$ 408,927	8%
Fringe Benefits	1,778,021	1,652,512	125,509	8%
Material & Supplies	1,458,100	1,099,750	358,350	33%
Transportation	38,700	12,700	26,000	205%
Utilities	1,300,000	1,176,000	124,000	11%
Contractual Services	6,124,260	6,292,500	(168,240)	(3%)
Major Repairs	1,247,000	1,125,000	122,000	11%
Miscellaneous	373,500	298,110	75,390	25%
Total	\$ 17,783,194	\$ 16,711,258	\$ 1,071,935	6%

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Director of Information Technology	12	1		1		1
Chief Information Security Officer	11	1		1		1
Chief of Enterprise Data Services	11	1		1		1
Chief of IT Operations and Support	11	0		0	1	1
Database Administrator	9	3		3		3
Enterprise Architect	9	3		3		3
IT Systems Security Manager	9	1		1		1
Oracle Developer	9	2		2		2
Programming Development Manager	9	1		1		1
Senior Systems Engineer	9	7		7		7
Systems Analysis Manager	9	1		1		1
Cybersecurity Analyst	8	0		0	1	1
Senior Programmer Analyst	8	8		8		8
Senior Systems Analyst	8	5		5		5
SharePoint Web Developer	8	1		1		1
Linux Systems Administrator	8	2		2		2
Unix System Administrator	8	0		0	1	1
IT HelpDesk Supervisor	7	1		1		1
Desktop Support Analyst	6	6		6		6
Systems Analyst	6	1		1		1
Web Portal Programmer	6	1		1		1
Telecommunications Coordinator	5	1		1		1
IT Administrative Coordinator	4	1		1		1
Computer Operator	3	3		3		3
Total		51	0	51	3	54

Talent Management

The Talent Management Department attracts, develops, and retains a talented diverse workforce and ensures employee safety. The Human Resources Division is responsible for recruitment and outreach, new employee onboarding, benefits administration, compensation and classification, employee relations, HRSD's wellness program, workers' compensation, employee records, retirement, and HR policies. The Organizational Development and Training (ODT) Division oversees HRSD's Apprenticeship Program and is dedicated to developing and supporting HRSD's strategic plan and key initiatives to promote training, education, and experiential experiences. The Safety Division is responsible for Occupational Safety & Health Compliance, safety programs, employee safety training, safety records, industrial hygiene monitoring, occupational health screening, safety audits, accident investigations, compliance reporting, and risk management support.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 1,713,691	\$ 1,620,907	\$ 92,783	6%
Fringe Benefits	585,149	606,870	(21,722)	(4%)
Material & Supplies	68,000	56,500	11,500	20%
Transportation	22,600	27,600	(5,000)	(18%)
Contractual Services	22,000	22,000	-	0%
Capital Assets	-	-	-	0%
Miscellaneous	203,302	198,770	4,532	2%
Total	\$ 2,614,742	\$ 2,532,647	\$ 82,094	3%

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Director of Talent Management	12	1		1		1
Chief of Human Resources	11	0	1	1		1
ODT Manager	10	1		1		1
Human Resources Manager	9	1	(1)	0		0
Safety Manager	9	1		1		1
Human Resources Business Analyst	8	1		1		1
Human Resources Business Partner	8	3		3		3
Industrial Hygienist	8	2		2		2
Training Superintendent	8	1		1		1
ODT Resource Specialist	6	1		1		1
Talent Acquisition Specialist	6	0		0	1	1
Safety Technician	5	2		2		2
Human Resources Coordinator	4	2		2		2
Organizational Development & Training Coordinator	4	1		1		1
Total		17	0	17	1	18

Operations Department

The Operations Department is responsible for operating and maintaining HRSD's treatment plants, pump stations, pipelines, buildings and equipment. HRSD provides wastewater treatment services for over 1.7 million people in 20 cities, counties and towns. The department also includes the Division of Water Technology and Research whose primary purpose is to research new technologies with a focus on rapid deployment of innovative solutions and water quality. Services are delivered through 9 divisions. There are three major treatment plant divisions. Services to small communities that are in the HRSD service area are provided by the Small Communities Division (SCD). The SCD operates four smaller treatment plants and the associated sewer collection systems for four counties on the Middle Peninsula and the Town of West Point. The SCD also includes the operation of two treatment plants and the associated sewer collection systems in the County of Surry. Finally, the SCD operates two treatment plants and the associated sewer collection services for the Towns of Nassawadox and Onancock on the Eastern Shore of Virginia. The Electrical and Instrumentation Division supports the electrical and instrumentation maintenance and construction needs of all HRSD facilities as well as programming industrial controls and automation at HRSD facilities. The two Interceptor Divisions operate and maintain over 500 miles of interceptor pipelines and over 100 pump stations ensuring wastewater is conveyed to each treatment plant. The Support Systems Division is responsible for the maintenance of the HRSD fleet, all buildings, operation of two carpentry shops, a full-service machine shop and managing an infrastructure assessment team. The department is also responsible for energy management and research to find innovative, cost-effective ways of managing our energy consumption more effectively.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 36,510,683	\$ 35,998,001	\$ 512,682	1%
Fringe Benefits	15,007,975	15,394,579	(386,604)	(3%)
Material & Supplies	8,805,130	5,752,726	3,052,404	53%
Transportation	1,658,041	1,385,430	272,611	20%
Utilities	12,809,119	10,347,561	2,461,558	24%
Chemical Purchases	12,472,034	8,651,935	3,820,099	44%
Contractual Services	21,662,969	22,260,313	(597,344)	(3%)
Major Repairs	7,174,970	10,148,820	(2,973,850)	(29%)
Capital Assets	447,684	470,000	(22,316)	(5%)
Miscellaneous	990,508	940,245	50,263	5%
Total	\$117,539,113	\$111,349,610	\$ 6,189,503	6%

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Director of Operations	12	1		1		1
Director of Water Technology and Research	12	1		1		1
Chief of Electrical & Instrumentation Division	11	1		1		1
Chief of Interceptor Operations North Shore	11	1		1		1
Chief of Interceptor Operations South Shore	11	1		1		1
Chief of Process Engineering & Research	11	1		1		1
Chief of Treatment	11	3		3		3
Energy Manager	11	1		1		1
Treatment Process Engineer	10	5	1	6		6
Electrical Manager	9	1		1	1	2
Industrial Automation Manager	9	1		1		1
Instrumentation Manager	9	1		1	1	2
Interceptor Engineer	9	2		2		2
Plant Manager	9	1	(1)	0		0
Project Manager	9	3		3		3
Support Systems Manager	9	1		1		1
SWIFT Project Manager	9	1		1		1
Systems Manager	9	2		2		2
Automotive Superintendent	8	1		1		1
Coating, Concrete and Roofing Superintendent	8	1		1		1
Condition Assessment Superintendent	8	1		1		1

Operations Department Positions (continued)

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Construction Superintendent	8	0	1	1		1
Electrical & Instrumentation Superintendent	8	5		5	1	6
Facility Superintendent	8	1		1	1	2
Industrial Automation Programmer	8	6	1	7		7
Interceptor Superintendent	8	2		2		2
Plant Superintendent	8	17	(1)	16		16
Chief Foreman	7	2		2		2
Chief Maintenance Management	7	2		2		2
Chief Systems Operator	7	2		2		2
Electrical & Instrumentation Process Specialist	7	1		1		1
Electrical & Instrumentation Specialist	7	64		64		64
Interceptor Specialist	7	2		2		2
Lead Operator	7	33	(1)	32	1	33
Operations Support Specialist	7	1		1		1
Automotive Foreman	6	2		2		2
Coatings Inspector	6	2		2		2
Condition Assessment Supervisor	6	1		1		1
Interceptor Foreman	6	7	(1)	6		6
Interceptor Inspector	6	2		2		2
Interceptor Systems Supervisor	6	2		2		2
Machinist Foreman	6	1		1		1
Maintenance Planner	6	7		7	1	8
Pump Station Supervisor	6	2		2		2
Automotive Technician	5	5		5		5
Carpenter	5	4	(1)	3	(1)	2
Equipment Technician	5	3		3		3
Facility Maintenance Technician	5	2		2		2
Interceptor Technician	5	30	(1)	29		29
Machinist	5	2		2		2
Maintenance Operator	5	69	(4)	65	7	72
Plant Operator	5	82	(7)	75	1	76
Automotive Coordinator	4	1		1		1
Heavy Equipment Operator 1	4	19	2	21		21
Materials Operations Coordinator	4	2		2		2
Operations Admin Coordinator	4	1		1		1
Operations Coordinator	4	2		2		2
Plant Administrative Assistant	3	10	(2)	8		8
Utility Administrative Assistant	3	1	(1)	0		0
SCADA Administrative Assistant	3	1		1		1
Interceptor Assistant	2	28		28		28
Maintenance Operations Assistant	2	44	(8)	36	1	37
Facility Assistant	1	1		1		1
Custodian	1	4		4		4
Subtotal - Operations		506	(23)	483	14	497
Small Communities						
Chief of Small Communities	11	0		0	1	1
Systems Manager	9	1		1		1
Systems Superintendent	8	2		2		2
Systems Chief Foreman	7	1	(1)	0		0
Systems Lead Operator	7	3		3		3
Systems Foreman	6	2	1	3		3
Systems Operator	5	12		12		12
Administrative Coordinator	4	1		1		1
Heavy Equipment Operator 1	4	1		1		1
Maintenance Operations Assistant	2	3		3		3
SCD Lab Assistant	2	1		1		1
Subtotal - Small Communities		27	0	27	0	27
Total		533	(23)	510	14	524

Engineering Department

The Engineering Department is responsible for facility planning, design and construction and related support. The Asset Management Division is responsible for the Computerized Maintenance Management System (CMMS), Condition Assessment, and Emergency Management procedures to extend the life of assets at the lowest life cycle cost. The Design and Construction Divisions deliver capital projects in a manner consistent with HRSD's quality standards. The Planning and Analysis Division manages numerous diverse functions including Hydraulic Modeling, Geographic Information System (GIS), Data Analysis and Records Management System and plans the capital infrastructure required to meet the region's future wastewater needs. The department is also responsible for all property and land acquisition to meet the needs of HRSD.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 5,109,944	\$ 4,439,309	\$ 670,635	15%
Fringe Benefits	1,782,671	1,576,016	206,655	13%
Material & Supplies	25,050	38,547	(13,497)	(35%)
Transportation	15,420	23,270	(7,850)	(34%)
Contractual Services	998,200	912,241	85,959	9%
Major Repairs	-	-	-	0%
Miscellaneous	185,643	119,500	66,143	55%
Total	\$ 8,116,929	\$ 7,108,883	\$ 1,008,045	14%

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Director of Engineering	12	1		1		1
Chief of Asset Management	11	1		1		1
Chief of Design & Construction	11	2		2		2
Chief of Design & Construction - Special Projects	11	0		0	1	1
Chief of Design & Construction - SWIFT	11	1		1		1
Chief of Planning & Analysis	11	1		1		1
Condition Assessment Manager	9	2		2		2
Data Analysis Manager	9	1		1		1
Enterprise Data Scientist	9	1		1		1
GIS Manager	9	1		1		1
Hydraulic Analysis Manager	9	4		4		4
Project Manager	9	10		10	3	13
Real Estate Manager	8	2		2	1	3
Condition Assessment Engineer	7	0		0	1	1
CMMS Analyst	7	2		2		2
Data Analyst	7	5		5	1	6
GIS Analyst	7	2		2		2
Planning Engineer	7	2		2		2
Contract Specialist	6	3		3	1	4
GIS CAD Technician	5	2		2		2
Administrative Coordinator	4	1		1		1
Engineering Clerk	2	1		1		1
Total		45	0	45	8	53

Water Quality Department

The Water Quality (WQ) Department's mission is to provide quality environmental services to support HRSD and its partners. This department helps ensure compliance with HRSD environmental permits and leads regulatory advocacy through the work of three divisions. The Central Environmental Laboratory (CEL) Division uses the Environmental Data Management System (EDMS) and other tools to provide analytical support for numerous monitoring, research and regulatory purposes. The Pretreatment and Pollution Prevention (P3) Division monitors wastewater conveyed to treatment plants using the Pretreatment Information Management System (PIMS) and other tools, and implements its Industrial Wastewater Discharge Regulations to protect treatment plant staff, facilities and processes. The Technical Services Division (TSD) is responsible for activities including environmental monitoring, specialized sampling, treatment process and research studies, the Municipal Assistance Program (MAP) to assist localities, as well as all reporting required by HRSD permits.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 8,740,032	\$ 8,459,559	\$ 280,473	3%
Fringe Benefits	3,448,350	3,424,426	23,924	1%
Material & Supplies	1,768,500	1,623,700	144,800	9%
Transportation	27,700	26,206	1,494	6%
Contractual Services	1,889,500	1,700,500	189,000	11%
Major Repairs	76,000	76,000	-	0%
Capital Assets	-	-	-	0%
Miscellaneous	624,350	583,050	41,300	7%
Total	\$ 16,577,131	\$ 15,896,141	\$ 680,991	4%

Positions

	Grade	Adopted FY-2022	Adjustments	Final FY-2022	Adjustments	FY-2023
Director of Water Quality	12	1		1		1
Chief of Lab	11	1		1		1
Chief of P3	11	1		1		1
Chief of TSD	11	1		1		1
TSD Geologist	10	1		1		1
Environmental Scientist	9	7		7		7
Lab Manager	9	4		4		4
Lab Quality Assurance Manager	9	1		1		1
LIMS Optimization Manager	9	1		1		1
P3 Manager	9	4		4		4
WQ/Ops Quality Assurance Manager	9	1		1		1
Lab EDMS Administrator	8	1		1		1
Lab Operations Manager	8	1		1		1
Lab Supervising Chemist	8	13		13		13
P3 Supervising Specialist	8	3		3		3
TSD Operations Manager	8	1		1		1
TSD Supervising Specialist	8	3		3		3
Quality Assurance Specialist	8	0	1	1		1
P3 Administrative Supervising Specialist	7	1		1		1
P3 PIMS Analyst	7	1		1		1
TSD Specialist	7	12	1	13		13
Lab EDMS Analyst	6	1		1		1
Lab Quality Assurance Specialist	6	1		1		1
Lab Specialist	6	14		14		14
P3 Specialist	6	5		5		5
Lab Data Technician	5	1		1		1
Lab Technician	5	5		5		5
P3 Administrative Technician	5	1		1		1
P3 Technician	5	10		10		10
TSD Technician	5	8		8		8
CEL Operations Coordinator	4	1		1		1
Lab Assistant	4	7		7		7
Lab Data Coordinator	4	1		1		1
TSD Operations Coordinator	4	1	(1)	0		0
TSD Administrative Coordinator	4	1		1		1
P3 Administrative Assistant	3	2		2		2
TSD Assistant	2	1		1		1
Total		119	1	120	0	120

General Expenses, Debt Service and Transfers

General Expenses includes operating expenditures not assigned to any specific HRSD Department. Debt Service includes payments on bonds issued by HRSD and through the Virginia Clean Water Revolving Loan Fund (VCWRLF). Transfers are made to fund the Capital Improvement Program (CIP) and the Risk Management reserve. The costs incurred to issue bonds are included in General Expenses - Miscellaneous.

Expenditure Budget

	FY-2023 Budget	FY-2022 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ (1,459,809)	\$ 275,506	\$ (1,735,315)	(630%)
Fringe Benefits	1,136,636	(201,900)	1,338,537	(663%)
Material & Supplies	26,000	26,000	-	0%
Utilities	525,000	440,000	85,000	19%
Contractual Services	8,031,950	7,500,221	531,729	7%
Miscellaneous	809,450	599,900	209,550	35%
Total General Expenses	\$ 9,069,227	\$ 8,639,727	\$ 429,501	5%
Publically Sold Bonds - Principal	\$ 23,630,000	\$ 22,430,000	\$ 1,200,000	5%
Publically Sold Bonds - Interest	24,553,000	22,730,000	1,823,000	8%
VRLF Bonds	21,350,000	19,148,209	2,201,791	11%
<i>Subtotal</i> - Debt Service	69,533,000	64,308,209	5,224,791	8%
Transfer to CIP	129,412,966	114,463,921	14,949,046	13%
Transfer to Risk Management	260,000	260,000	-	0%
<i>Subtotal</i> - Transfers	129,672,966	114,723,921	14,949,046	13%
Total Debt Service and Transfers	\$ 199,205,966	\$ 179,032,130	\$ 20,173,837	11%

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Capital Budget



Capital Budget

HRSD prepares a Capital Improvement Program (CIP) each year for the capital projects currently underway or proposed for the future. The first year of the CIP is authorized as the Capital Budget for FY-2023 in the amount of \$411 million. The remaining years (FY-2024 to FY-2032) include all known projects planned for these years; however, approval of the plan does not authorize the Capital Budgets for those years. Each year's Capital Budget will be approved during the budget process for the specific year.

The ten-year Capital Improvement Program for FY-2023 to FY-2032 highlights the anticipated cost of each project and the fiscal year(s) in which the work is expected to occur. All costs listed in the CIP are stated in current year dollars and total approximately \$3.1 billion.

The bond component of the plan may include one or all of the following:

- Interim or construction financings
- Federally subsidized borrowing programs administered by the Virginia Resource Authority and the Environmental Protection Agency
- HRSD Revenue Bonds or Notes

The grant component represents funds estimated to be received from a federal or state agency for specific projects. Other reimbursements, if any, include amounts paid by other parties who may participate in a project.

Capital Budget

CIP Budget Forecast (in thousands)	Total FY-2023 to FY-2032	FY-2023	FY-2024	FY-2025	FY-2026	FY-2027
Beginning Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	351,566	-	-	-	-	-
VCWRLF	300,000	100,000	100,000	100,000	-	-
WIFIA	821,565	172,508	286,441	175,481	28,593	25,004
Cash	1,287,352	129,413	135,811	137,111	148,684	142,738
WQIF	136,500	-	17,500	20,000	30,000	29,000
Grants and Other Reimbursements	69,832	6,635	23,291	14,186	2,485	6,295
Transfer from Line of Credit	125,186	2,444	67,956	83,222	100,239	6,963
Total Capital Resources	3,092,000	411,000	631,000	530,000	310,001	210,000
Capital Expenditures	3,092,000	411,000	631,000	530,000	310,000	210,000
Ending Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Capital Expenditures (in thousands)	Total FY-2023 to FY-2032	FY-2023	FY-2024	FY-2025	FY-2026	FY-2027
Administration	\$ 71,928	\$ 10,074	\$ 14,402	\$ 17,884	\$ 8,027	\$ 3,675
Army Base	65,766	7,187	11,354	3,046	9	-
Atlantic	141,784	25,251	40,027	46,993	23,334	1,420
Boat Harbor	322,006	40,891	104,901	100,922	17,535	15,601
Chesapeake-Elizabeth	24,773	6,072	8,687	3,556	42	3,348
James River	302,600	92,041	105,586	60,098	18,886	16,353
Middle Peninsula	112,828	23,576	56,198	26,175	1,137	4,803
Nansemond	413,038	68,459	149,787	120,165	39,037	7,376
Surry	6,592	643	2,375	3,528	46	-
Virginia Initiative Plant	223,224	48,818	65,418	48,481	21,941	2,698
Williamsburg	23,544	3,205	2,117	2,841	778	711
York River	80,527	31,959	18,093	6,566	20,225	3,682
General	1,239,224	134,793	151,999	109,982	174,819	161,385
Future Improvements	281,196	-	-	-	-	-
<i>Sub-Total</i>	3,361,366	513,750	742,353	557,895	326,316	221,053
Program Spend Rate		80%	85%	95%	95%	95%
Total Expenditures	\$ 3,092,000	\$ 411,000	\$ 631,000	\$ 530,000	\$ 310,000	\$ 210,000

Capital Budget

CIP Budget Forecast

(in thousands)

	FY-2028	FY-2029	FY-2030	FY-2031	FY-2032
Beginning Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	-	351,566	-	-	-
VCWRLF	-	-	-	-	-
WIFIA	14,420	36,493	49,953	21,781	10,891
Cash	164,265	84,363	131,578	136,156	77,232
WQIF	25,000	7,500	5,000	2,500	-
Grants and Other Reimbursements	5,936	5,002	5,002	1,000	-
Transfer from Line of Credit	(9,621)	(284,924)	8,468	38,563	111,876
Total Capital Resources	200,000	200,000	200,000	200,000	199,999
Capital Expenditures	200,000	200,000	200,000	200,000	200,000
Ending Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -

Capital Expenditures

(in thousands)

	FY-2028	FY-2029	FY-2030	FY-2031	FY-2032
Administration	\$ 3,634	\$ 3,634	\$ 3,634	\$ 3,634	\$ 3,331
Army Base	-	-	-	16,895	27,275
Atlantic	700	-	-	2,610	1,450
Boat Harbor	36,157	6,000	-	-	-
Chesapeake-Elizabeth	3,069	-	-	-	-
James River	9,637	-	-	-	-
Middle Peninsula	936	2	2	-	-
Nansemond	6,288	10,971	10,927	28	-
Surry	-	-	-	-	-
Virginia Initiative Plant	9,242	11,615	10,134	3,396	1,480
Williamsburg	913	-	-	6,345	6,634
York River	1	-	-	-	-
General	129,423	140,631	115,610	77,450	43,131
Future Improvements	-	23,668	57,504	86,402	113,622
<i>Sub-Total</i>	200,000	200,000	200,000	200,000	200,000
Program Spend Rate	100%	100%	100%	100%	100%
Total Expenditures	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2023 to FY-2032	FY-2023	FY-2024	FY-2025	FY-2026	FY-2027
Administration							
AD012500	Cybersecurity Practice & Procedure Initiative	\$ 12,239	\$ 4,196	\$ 4,196	\$ 3,846	\$ -	\$ -
AD012600	Central Environmental Laboratory Expansion and Rehabilitation	\$ 23,689	\$ 2,278	\$ 6,572	\$ 10,404	\$ 4,393	\$ 42
AD012700	Capital Improvement Program Labor Program	\$ 32,400	\$ -	\$ 3,634	\$ 3,634	\$ 3,634	\$ 3,634
AD012710	Capital Improvement Program Internal Labor FY23	\$ 3,600	\$ 3,600	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 71,928	\$ 10,074	\$ 14,402	\$ 17,884	\$ 8,027	\$ 3,675
Army Base							
AB010000	Army Base 24-Inch and 20-Inch Transmission Main Replacements	\$ 12,641	\$ 4,324	\$ 7,095	\$ 1,216	\$ 7	\$ -
AB010500	Section W Force Main Replacement	\$ 1,422	\$ 487	\$ 788	\$ 144	\$ 3	\$ -
AB011800	Army Base to VIP Transmission Force Main	\$ 49,930	\$ -	\$ -	\$ -	\$ -	\$ -
AB011900	Army Base Treatment Plant Administration Building Renovation (2021)	\$ 1,524	\$ 926	\$ 591	\$ 7	\$ -	\$ -
AB012000	Wards Corner Sanitary Sewer Pumping Station	\$ 6,010	\$ 1,450	\$ 2,880	\$ 1,680	\$ -	\$ -
	Subtotal	\$ 65,766	\$ 7,187	\$ 11,354	\$ 3,046	\$ 9	\$ -
Atlantic							
AT011520	Shipps Corner Pressure Reducing Station Modifications	\$ 1,436	\$ 913	\$ 523	\$ -	\$ -	\$ -
AT011900	Great Bridge Interceptor Extension 16-Inch Replacement	\$ 8,361	\$ 400	\$ 3,118	\$ 4,798	\$ 46	\$ -
AT012920	Atlantic Treatment Plant Access Road Extension	\$ 9,987	\$ 1,456	\$ 2,931	\$ 4,200	\$ 1,400	\$ -
AT013000	Washington District Pump Station Area Sanitary Sewer Improvements	\$ 5,937	\$ 1,626	\$ 1,771	\$ 1,771	\$ 756	\$ 15
AT013010	Washington District Pump Station Replacement	\$ 9,513	\$ 1,269	\$ 4,935	\$ 3,296	\$ 13	\$ -
AT013110	South Norfolk Area Gravity Sewer Improvements, Phase II	\$ 10,219	\$ 3,296	\$ 6,923	\$ -	\$ -	\$ -
AT013700	Atlantic Trunk Interceptor Force Main Relocation (VDOT Laskin Road Betterment)	\$ 284	\$ 248	\$ 36	\$ -	\$ -	\$ -
AT014000	Lynnhaven-Great Neck IFM (SF-021) Relocation	\$ 1,569	\$ -	\$ 523	\$ 1,046	\$ -	\$ -
AT014100	Suffolk Regional Landfill Transmission Force Main	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -	\$ -
AT014301	Atlantic Service Area I-I Reduction Phase I (CHES)	\$ 12,344	\$ 858	\$ 865	\$ 3,196	\$ 7,405	\$ 20
AT014302	Atlantic Service Area I-I Reduction Phase II (CHES)	\$ 10,859	\$ 977	\$ 702	\$ 1,166	\$ 6,850	\$ 1,160
AT014303	Chesapeake Pump Station Capacity Improvements (AT-HPP-01C)	\$ 935	\$ -	\$ -	\$ -	\$ 52	\$ 187
AT014600	Kempsville Interceptor Force Main Replacement - Phase I	\$ 5,864	\$ 241	\$ 389	\$ 2,770	\$ 2,456	\$ 7
AT014800	Atlantic Treatment Plant Electrical Workspace Renovation	\$ 315	\$ 315	\$ -	\$ -	\$ -	\$ -
AT014900	Atlantic Treatment Plant Gravity Belt Thickener Expansion	\$ 5,079	\$ 3,102	\$ 1,963	\$ 14	\$ -	\$ -
AT015000	Atlantic Treatment Plant Polymer System Replacement	\$ 2,289	\$ 1,392	\$ 890	\$ 6	\$ -	\$ -
AT015100	Atlantic Treatment Plant Solids Storage Pad Improvements	\$ 513	\$ 511	\$ 2	\$ -	\$ -	\$ -
AT015200	Cedar Road Interceptor Force Main Replacement Phase I	\$ 6,047	\$ 235	\$ 352	\$ 2,912	\$ 2,520	\$ 29
AT015300	High Priority Projects Round 2 Project 2	\$ 28,998	\$ -	\$ -	\$ -	\$ -	\$ -
AT015400	Doziers Corner Pump Station Replacement	\$ 7,775	\$ 745	\$ 2,874	\$ 3,818	\$ 337	\$ 2
AT015500	Atlantic Treatment Plant Secondary Clarifier Effluent Weir Replacement and Enhancements	\$ 1,648	\$ 824	\$ 824	\$ -	\$ -	\$ -
AT015600	Atlantic Treatment Plant Solids Handling Improvements and Odor Control Upgrades Phase I	\$ 26,025	\$ 2,429	\$ 8,430	\$ 14,000	\$ 1,167	\$ -
AT015700	Atlantic Plant Solids Handling Improvements Waste Gas Flare Replacement	\$ 6,725	\$ 414	\$ 1,977	\$ 4,000	\$ 333	\$ -
	Subtotal	\$ 141,784	\$ 25,251	\$ 40,027	\$ 46,993	\$ 23,334	\$ 1,420
Boat Harbor							
BH013020	Willard Avenue Pump Station Replacement	\$ 11,010	\$ 4,887	\$ 4,887	\$ 1,235	\$ 2	\$ -
BH014000	West Avenue and 35th Street Interceptor Force Main Replacement	\$ 2,405	\$ 2,400	\$ 5	\$ -	\$ -	\$ -
BH014220	Hampton Trunk Sewer Extension Divisions I and J Relocation Phase II	\$ 13,828	\$ 6,139	\$ 6,139	\$ 1,548	\$ 2	\$ -
BH014500	Ivy Home-Shell Road Sewer Extension Division I Replacement	\$ 1,969	\$ 85	\$ 1,724	\$ 161	\$ -	\$ -
BH014600	46th Street Diversion Sewer Rehabilitation Replacement	\$ 4,531	\$ 2,852	\$ 1,673	\$ 6	\$ -	\$ -
BH014610	46th Street Diversion Sewer Rehabilitation Replacement, HII-NNS	\$ 2,194	\$ 1,463	\$ 731	\$ -	\$ -	\$ -
BH014900	Hampton Trunk Sewer Extension Division K Gravity Improvements	\$ 2,015	\$ 889	\$ 889	\$ 236	\$ 2	\$ -
BH015700	Boat Harbor Treatment Plant Pump Station Conversion	\$ 59,724	\$ 5,133	\$ 26,750	\$ 24,889	\$ 2,951	\$ -
BH015710	Boat Harbor Treatment Plant Transmission Force Main Section 1 (Subaqueous)	\$ 127,107	\$ 8,145	\$ 52,595	\$ 60,390	\$ 5,977	\$ -
BH015720	Boat Harbor Treatment Plant Transmission Force Main Section 2 (Land)	\$ 24,824	\$ 3,836	\$ 8,357	\$ 8,390	\$ 4,241	\$ -
BH015730	Boat Harbor Treatment Plant Decommission and Demolition	\$ 28,626	\$ -	\$ 516	\$ 1,866	\$ 244	\$ 10,000
BH015801	14th Street Offline Storage (BH-HPP-01A)	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ -
BH015802	Claremont Pump Station Upgrade (BH-HPP-01B)	\$ 12,049	\$ -	\$ -	\$ -	\$ 308	\$ 986
BH015803	Chesapeake Avenue Interceptor Improvements (BH-HPP-01C)	\$ 16,277	\$ -	\$ -	\$ -	\$ 1,310	\$ 2,115
BH015900	Bloxoms Corner Force Main Replacement	\$ 4,947	\$ 4,562	\$ 385	\$ -	\$ -	\$ -
BH016100	High Priority Projects Round 2 Project 3	\$ 28,490	\$ -	\$ -	\$ -	\$ -	\$ -
BH016200	Inflow Reduction Program - Phase II	\$ 10,000	\$ -	\$ 250	\$ 2,200	\$ 2,500	\$ 2,500
	Subtotal	\$ 322,006	\$ 40,891	\$ 104,901	\$ 100,922	\$ 17,535	\$ 15,601
Note:	VIP - Virginia Initiative Plant VDOT - Virginia Department of Transportation IFM - Interceptor Force Main CHES - City of Chesapeake BH - Boat Harbor Treatment Plant HPP - High Priority Project HII-NNS - Huntingon Ingalls Industries - Newport News Shipbuilding						

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2028	FY-2029	FY-2030	FY-2031	FY-2032
Administration						
AD012500	Cybersecurity Practice & Procedure Initiative	\$ -	\$ -	\$ -	\$ -	\$ -
AD012600	Central Environmental Laboratory Expansion and Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
AD012700	Capital Improvement Program Labor Program	\$ 3,634	\$ 3,634	\$ 3,634	\$ 3,634	\$ 3,331
AD012710	Capital Improvement Program Internal Labor FY23	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 3,634	\$ 3,634	\$ 3,634	\$ 3,634	\$ 3,331
Army Base						
AB010000	Army Base 24-Inch and 20-Inch Transmission Main Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
AB010500	Section W Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AB011800	Army Base to VIP Transmission Force Main	\$ -	\$ -	\$ -	\$ 16,895	\$ 27,275
AB011900	Army Base Treatment Plant Administration Building Renovation (2021)	\$ -	\$ -	\$ -	\$ -	\$ -
AB012000	Wards Corner Sanitary Sewer Pumping Station	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ 16,895	\$ 27,275
Atlantic						
AT011520	Shipps Corner Pressure Reducing Station Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
AT011900	Great Bridge Interceptor Extension 16-Inch Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT012920	Atlantic Treatment Plant Access Road Extension	\$ -	\$ -	\$ -	\$ -	\$ -
AT013000	Washington District Pump Station Area Sanitary Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT013010	Washington District Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT013110	South Norfolk Area Gravity Sewer Improvements, Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
AT013700	Atlantic Trunk Interceptor Force Main Relocation (VDOT Laskin Road Betterment)	\$ -	\$ -	\$ -	\$ -	\$ -
AT014000	Lynnhaven-Great Neck IFM (SF-021) Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
AT014100	Suffolk Regional Landfill Transmission Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
AT014301	Atlantic Service Area I-I Reduction Phase I (CHES)	\$ -	\$ -	\$ -	\$ -	\$ -
AT014302	Atlantic Service Area I-I Reduction Phase II (CHES)	\$ 4	\$ -	\$ -	\$ -	\$ -
AT014303	Chesapeake Pump Station Capacity Improvements (AT-HPP-01C)	\$ 696	\$ -	\$ -	\$ -	\$ -
AT014600	Kempsville Interceptor Force Main Replacement - Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
AT014800	Atlantic Treatment Plant Electrical Workspace Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
AT014900	Atlantic Treatment Plant Gravity Belt Thickener Expansion	\$ -	\$ -	\$ -	\$ -	\$ -
AT015000	Atlantic Treatment Plant Polymer System Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT015100	Atlantic Treatment Plant Solids Storage Pad Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT015200	Cedar Road Interceptor Force Main Replacement Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
AT015300	High Priority Projects Round 2 Project 2	\$ -	\$ -	\$ -	\$ 2,610	\$ 1,450
AT015400	Doziers Corner Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT015500	Atlantic Treatment Plant Secondary Clarifier Effluent Weir Replacement and Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
AT015600	Atlantic Treatment Plant Solids Handling Improvements and Odor Control Upgrades Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
AT015700	Atlantic Plant Solids Handling Improvements Waste Gas Flare Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 700	\$ -	\$ -	\$ 2,610	\$ 1,450
Boat Harbor						
BH013020	Willard Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014000	West Avenue and 35th Street Interceptor Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014220	Hampton Trunk Sewer Extension Divisions I and J Relocation Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
BH014500	Ivy Home-Shell Road Sewer Extension Division I Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014600	46th Street Diversion Sewer Rehabilitation Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014610	46th Street Diversion Sewer Rehabilitation Replacement, HII-NNS	\$ -	\$ -	\$ -	\$ -	\$ -
BH014900	Hampton Trunk Sewer Extension Division K Gravity Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
BH015700	Boat Harbor Treatment Plant Pump Station Conversion	\$ -	\$ -	\$ -	\$ -	\$ -
BH015710	Boat Harbor Treatment Plant Transmission Force Main Section 1 (Subaqueous)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015720	Boat Harbor Treatment Plant Transmission Force Main Section 2 (Land)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015730	Boat Harbor Treatment Plant Decommission and Demolition	\$ 10,000	\$ 6,000	\$ -	\$ -	\$ -
BH015801	14th Street Offline Storage (BH-HPP-01A)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015802	Claremont Pump Station Upgrade (BH-HPP-01B)	\$ 10,755	\$ -	\$ -	\$ -	\$ -
BH015803	Chesapeake Avenue Interceptor Improvements (BH-HPP-01C)	\$ 12,852	\$ -	\$ -	\$ -	\$ -
BH015900	Bloxoms Corner Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH016100	High Priority Projects Round 2 Project 3	\$ -	\$ -	\$ -	\$ -	\$ -
BH016200	Inflow Reduction Program - Phase II	\$ 2,550	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 36,157	\$ 6,000	\$ -	\$ -	\$ -
Note:	VIP - Virginia Initiative Plant VDOT - Virginia Department of Transportation IFM - Interceptor Force Main CHES - City of Chesapeake BH - Boat Harbor Treatment Plant HPP - High Priority Project HII-NNS - Huntingon Ingalls Industries - Newport News Shipbuilding					

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2023 to FY-2032	FY-2023	FY-2024	FY-2025	FY-2026	FY-2027
Chesapeake-Elizabeth							
CE011300	Birchwood Trunk 24-Inch and 30-Inch Force Main at Independence Boulevard Replacement Phase II	\$ 1,601	\$ 591	\$ 1,003	\$ 7	\$ -	\$ -
CE011600	Poplar Hall Davis Corner Trunk 24-Inch Gravity Sewer Improvements	\$ 1,948	\$ 288	\$ 1,651	\$ 9	\$ -	\$ -
CE011810	Chesapeake-Elizabeth Treatment Plant Decommissioning	\$ 11,274	\$ 2,229	\$ 5,529	\$ 3,517	\$ -	\$ -
CE011827	Atlantic PRS Reliability Modifications	\$ 304	\$ 304	\$ -	\$ -	\$ -	\$ -
CE011828	Kempsville PRS Reliability Modifications	\$ 94	\$ 94	\$ -	\$ -	\$ -	\$ -
CE011835	Virginia Beach City Pump Station Upgrades, Phase V	\$ 1,250	\$ 1,250	\$ -	\$ -	\$ -	\$ -
CE011836	Norfolk City Pump Station Upgrades	\$ 588	\$ 588	\$ -	\$ -	\$ -	\$ -
CE011837	Private Pump Station Improvements	\$ 615	\$ 615	\$ -	\$ -	\$ -	\$ -
CE011850	Atlantic Service Area Automated Diversion Facilities Phase I	\$ 82	\$ 24	\$ 24	\$ 24	\$ 12	\$ -
CE012100	Witchduck Road Interceptor Force Main Improvements	\$ 7,017	\$ 90	\$ 480	\$ -	\$ 30	\$ 3,348
Subtotal		\$ 24,773	\$ 6,072	\$ 8,687	\$ 3,556	\$ 42	\$ 3,348
Eastern Shore							
ES010000	Eastern Shore Infrastructure Improvements - Interim Plant Improvements	\$ 1,200	\$ 1,200	\$ -	\$ -	\$ -	\$ -
ES010100	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase I	\$ 20,911	\$ 16,376	\$ 4,102	\$ 3	\$ -	\$ -
ES010200	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase II	\$ 12,204	\$ -	\$ -	\$ -	\$ -	\$ -
ES010300	Onancock Treatment Plant Administration Building Upgrade	\$ 490	\$ 36	\$ 454	\$ -	\$ -	\$ -
ES010400	Northern Accomack Wastewater Conveyance, Treatment, and Disposal Study	\$ 237	\$ 237	\$ -	\$ -	\$ -	\$ -
ES010500	Chincoteague Treatment Plant	\$ 14,867	\$ 2,767	\$ 6,000	\$ 5,600	\$ 500	\$ -
ES010600	Onancock Meter Replacement	\$ 2,176	\$ 32	\$ 272	\$ 1,872	\$ -	\$ -
ES010700	Onancock Carnival Grounds Gravity Sewer Extension	\$ 898	\$ 134	\$ 582	\$ 183	\$ -	\$ -
Subtotal		\$ 52,336	\$ 20,782	\$ 11,409	\$ 7,657	\$ 500	\$ -
James River							
JR011730	Jefferson Avenue Interceptor Force Main Replacement Phase III	\$ 17,458	\$ 9,970	\$ 7,485	\$ 3	\$ -	\$ -
JR013000	Morrison Pump Station Discharge Force Main Replacement & Capacity Enhancements	\$ 562	\$ 562	\$ -	\$ -	\$ -	\$ -
JR013200	Lucas Creek-Woodhaven Interceptor Force Main Replacement Phase II	\$ 2,036	\$ 569	\$ 1,457	\$ 10	\$ -	\$ -
JR013400	James River Treatment Plant Advanced Nutrient Reduction Improvements	\$ 233,279	\$ 70,362	\$ 88,255	\$ 56,111	\$ 17,843	\$ 708
JR013401	James River Treatment Plant MIFAS Conversion Emergency	\$ 1,493	\$ 1,493	\$ -	\$ -	\$ -	\$ -
JR013410	James River Treatment Plant Outfall Modifications	\$ 1,350	\$ -	\$ 750	\$ 189	\$ 206	\$ 206
JR013500	Lucas Creek Pump Station Replacement	\$ 11,535	\$ 4,771	\$ 4,771	\$ 1,989	\$ 2	\$ 2
JR013610	James River Treatment Plant Automation Improvements Phase I	\$ 4,198	\$ 1,643	\$ 2,554	\$ -	\$ -	\$ -
JR013620	James River Treatment Plant Primary Treatment and Automation Improvements Phase II	\$ 10,349	\$ -	\$ -	\$ 227	\$ 830	\$ 4,919
JR013700	High Priority Projects Round 2 Project 6	\$ 18,457	\$ -	\$ -	\$ -	\$ -	\$ -
JR013800	James River Treatment Plant Shoreline Stabilization	\$ 2,073	\$ 2,196	\$ -	\$ -	\$ -	\$ -
JR014000	Center Avenue Force Main Replacement	\$ 18,144	\$ 473	\$ 314	\$ 1,569	\$ 5	\$ 10,518
Subtotal		\$ 302,600	\$ 92,041	\$ 105,586	\$ 60,098	\$ 18,886	\$ 16,353
Middle Peninsula							
MP011700	Middle Peninsula Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements	\$ 2,156	\$ 1,814	\$ 312	\$ 11	\$ 11	\$ 8
MP012000	King William Treatment Plant Improvements Phase I	\$ 190	\$ 189	\$ -	\$ -	\$ -	\$ -
MP013000	Small Communities Collection System Rehabilitation Phase I	\$ 30	\$ 30	\$ -	\$ -	\$ -	\$ -
MP013020	Small Communities Collection System Rehabilitation Phase III	\$ 1,083	\$ 480	\$ 599	\$ 4	\$ -	\$ -
MP013300	King William Treatment Plant Improvements Phase II	\$ 28,258	\$ 1,652	\$ 12,659	\$ 13,917	\$ 31	\$ -
MP013400	Small Communities Operation Center Parking and Laydown Area	\$ 174	\$ 174	\$ -	\$ -	\$ -	\$ -
MP013500	Middlesex Collection System-Cooks Corner	\$ 1,488	\$ 1,484	\$ 3	\$ -	\$ -	\$ -
MP013710	Middlesex Interceptor System Program Phase II-Saluda Pump Station	\$ 1,893	\$ 440	\$ 621	\$ 621	\$ 212	\$ -
MP013720	Middlesex Interceptor System Program Phase II-Hartfield Pump Station	\$ 4,120	\$ 1,416	\$ 2,024	\$ 680	\$ -	\$ -
MP013730	Middlesex Interceptor System Program Phase II-Transmission Force Main	\$ 25,825	\$ 8,805	\$ 12,761	\$ 4,259	\$ -	\$ -
MP013810	Middlesex Interceptor System Program Phase III	\$ 2,248	\$ 182	\$ 1,377	\$ 686	\$ -	\$ -
MP013820	Middlesex Interceptor System Program Phase III (Topping)	\$ 1,261	\$ 108	\$ 1,047	\$ 104	\$ 1	\$ -
MP013900	Urbanna Wastewater Treatment Plant Reliability Improvements	\$ 249	\$ -	\$ 21	\$ 228	\$ -	\$ -
MP014100	Middlesex Collection System-Christ's Church Service Area	\$ 1,133	\$ -	\$ 113	\$ -	\$ 699	\$ 321
MP014200	Middlesex Collection System-Topping Service Area Phase I	\$ 3,589	\$ 252	\$ 2,777	\$ 558	\$ 2	\$ -
Note:	PRS - Pressure Reducing Station MIFAS - Moving Media Integrated Fixed-Film Activated Sludge SCADA - Supervisory Control and Data Acquisition						

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2028	FY-2029	FY-2030	FY-2031	FY-2032
Chesapeake-Elizabeth						
CE011300	Birchwood Trunk 24-Inch and 30-Inch Force Main at Independence Boulevard Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
CE011600	Poplar Hall Davis Corner Trunk 24-Inch Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
CE011810	Chesapeake-Elizabeth Treatment Plant Decommissioning	\$ -	\$ -	\$ -	\$ -	\$ -
CE011827	Atlantic PRS Reliability Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
CE011828	Kempsville PRS Reliability Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
CE011835	Virginia Beach City Pump Station Upgrades, Phase V	\$ -	\$ -	\$ -	\$ -	\$ -
CE011836	Norfolk City Pump Station Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
CE011837	Private Pump Station Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
CE011850	Atlantic Service Area Automated Diversion Facilities Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
CE012100	Witchduck Road Interceptor Force Main Improvements	\$ 3,069	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 3,069	\$ -	\$ -	\$ -	\$ -
Eastern Shore						
ES010000	Eastern Shore Infrastructure Improvements - Interim Plant Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
ES010100	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
ES010200	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase II	\$ -	\$ 3,480	\$ 2,190	\$ 3,240	\$ 3,078
ES010300	Onancock Treatment Plant Administration Building Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -
ES010400	Northern Accomack Wastewater Conveyance, Treatment, and Disposal Study	\$ -	\$ -	\$ -	\$ -	\$ -
ES010500	Chincoteague Treatment Plant	\$ -	\$ -	\$ -	\$ -	\$ -
ES010600	Onancock Meter Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
ES010700	Onancock Carnival Grounds Gravity Sewer Extension	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ -	\$ 3,480	\$ 2,190	\$ 3,240	\$ 3,078
James River						
JR011730	Jefferson Avenue Interceptor Force Main Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
JR013000	Morrison Pump Station Discharge Force Main Replacement & Capacity Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
JR013200	Lucas Creek-Woodhaven Interceptor Force Main Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
JR013400	James River Treatment Plant Advanced Nutrient Reduction Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
JR013401	James River Treatment Plant MIFAS Conversion Emergency	\$ -	\$ -	\$ -	\$ -	\$ -
JR013410	James River Treatment Plant Outfall Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
JR013500	Lucas Creek Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
JR013610	James River Treatment Plant Automation Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
JR013620	James River Treatment Plant Primary Treatment and Automation Improvements Phase II	\$ 4,373	\$ -	\$ -	\$ -	\$ -
JR013700	High Priority Projects Round 2 Project 6	\$ -	\$ -	\$ -	\$ -	\$ -
JR013800	James River Treatment Plant Shoreline Stabilization	\$ -	\$ -	\$ -	\$ -	\$ -
JR014000	Center Avenue Force Main Replacement	\$ 5,264	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 9,637	\$ -	\$ -	\$ -	\$ -
Middle Peninsula						
MP011700	Middle Peninsula Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
MP012000	King William Treatment Plant Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
MP013000	Small Communities Collection System Rehabilitation Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
MP013020	Small Communities Collection System Rehabilitation Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
MP013300	King William Treatment Plant Improvements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
MP013400	Small Communities Operation Center Parking and Laydown Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP013500	Middlesex Collection System-Cooks Corner	\$ -	\$ -	\$ -	\$ -	\$ -
MP013710	Middlesex Interceptor System Program Phase II-Saluda Pump Station	\$ -	\$ -	\$ -	\$ -	\$ -
MP013720	Middlesex Interceptor System Program Phase II-Hartfield Pump Station	\$ -	\$ -	\$ -	\$ -	\$ -
MP013730	Middlesex Interceptor System Program Phase II-Transmission Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
MP013810	Middlesex Interceptor System Program Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
MP013820	Middlesex Interceptor System Program Phase III (Topping)	\$ -	\$ -	\$ -	\$ -	\$ -
MP013900	Urbanna Wastewater Treatment Plant Reliability Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP014100	Middlesex Collection System-Christ's Church Service Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP014200	Middlesex Collection System-Topping Service Area Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
Note:	PRS - Pressure Reducing Station MIFAS - Moving Media Integrated Fixed-Film Activated Sludge SCADA - Supervisory Control and Data Acquisition					

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2023 to FY-2032	FY-2023	FY-2024	FY-2025	FY-2026	FY-2027
MP014300	Middlesex Collection System-Locust Hill Service Area	\$ 3,910	\$ 375	\$ 2,935	\$ 600	\$ -	\$ -
MP014410	Middlesex County Hartfield Sewer Collection System Phase I Improvements	\$ 3,176	\$ 1,150	\$ 1,865	\$ 161	\$ -	\$ -
MP014500	Middlesex Collection System-Saluda Service Area	\$ 3,295	\$ -	\$ -	\$ 318	\$ -	\$ 2,043
MP014510	Middlesex County Saluda Sewer Collection System Phase I	\$ 345	\$ 134	\$ 191	\$ 21	\$ -	\$ -
MP014600	Middlesex Collection System-Deltaville Service Area	\$ 16,055	\$ 1,374	\$ 12,194	\$ 2,487	\$ -	\$ -
MP014700	Small Communities Rehabilitation Phase IV	\$ 2,344	\$ 1,712	\$ 630	\$ 2	\$ -	\$ -
MP014800	Small Communities Rehabilitation Phase V	\$ 585	\$ 116	\$ 429	\$ 40	\$ -	\$ -
MP014900	Middle Peninsula Operations Center Locker Room and Administrative Facilities	\$ 5	\$ 5	\$ -	\$ -	\$ -	\$ -
MP015000	Sharon Road Gravity Sewer Improvements	\$ 869	\$ 488	\$ 379	\$ 2	\$ -	\$ -
MP015100	West Point Pump Station 4 (Thompson Avenue) Rehabilitation	\$ 808	\$ 521	\$ 285	\$ 2	\$ -	\$ -
MP015300	King William Central Crossing Pump Station Rehabilitation	\$ 935	\$ 155	\$ 716	\$ 63	\$ -	\$ -
MP015400	Middlesex Interceptor System Program Phase IV	\$ 2,729	\$ -	\$ -	\$ 114	\$ 179	\$ 2,431
MP015500	Small Communities Rehabilitation Phase VI	\$ 1,170	\$ 181	\$ 909	\$ 80	\$ -	\$ -
MP015600	West Point Treatment Plant Final Effluent Pump Station Improvements	\$ 680	\$ 118	\$ 514	\$ 47	\$ -	\$ -
MP015700	West Point Treatment Plant Secondary Clarifier Improvements	\$ 790	\$ 135	\$ 600	\$ 55	\$ -	\$ -
MP015800	King William Main Pump Station Improvements	\$ 1,439	\$ 87	\$ 236	\$ 1,116	\$ -	\$ -
Subtotal		\$ 112,828	\$ 23,576	\$ 56,198	\$ 26,175	\$ 1,137	\$ 4,803
Nansemond							
NP010620	Suffolk Pump Station Replacement	\$ 22,178	\$ 14	\$ 6,936	\$ 8,307	\$ 6,922	\$ -
NP012400	Western Branch Sewer System Gravity Improvements	\$ 3,976	\$ 393	\$ 3,083	\$ 500	\$ -	\$ -
NP013000	Nansemond Treatment Plant Motor Control Center Replacements	\$ 858	\$ 858	\$ -	\$ -	\$ -	\$ -
NP013400	Deep Creek Interceptor Force Main Risk Mitigation Project	\$ 457	\$ 392	\$ 65	\$ -	\$ -	\$ -
NP013700	Nansemond Treatment Plant Struvite Recovery Facility Improvements	\$ 24,310	\$ 12,681	\$ 11,627	\$ 3	\$ -	\$ -
NP013820	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph II	\$ 254,047	\$ 34,051	\$ 108,813	\$ 91,549	\$ 19,634	\$ -
NP013901	Nansemond Service Area I-I Reduction Phase II (CHES)	\$ 17,117	\$ -	\$ -	\$ -	\$ -	\$ 1,131
NP013902	Nansemond Service Area I-I Reduction Phase III (CHES)	\$ 17,035	\$ -	\$ -	\$ 908	\$ 1,282	\$ 2,619
NP014000	Wilroy Pressure Reducing Station and Off-line Storage Facility	\$ 27,005	\$ 1,367	\$ 1,161	\$ 9,977	\$ 10,875	\$ 3,625
NP014400	Nansemond Treatment Plant Influent Screen Replacement	\$ 11	\$ 11	\$ -	\$ -	\$ -	\$ -
NP014500	Nansemond Treatment Plant Regional Residuals Facility Upgrade	\$ 1,552	\$ 52	\$ 600	\$ 900	\$ -	\$ -
NP014600	West Road Interceptor Force Main Extension	\$ 6,280	\$ 2,162	\$ 1,896	\$ 1,896	\$ 324	\$ 2
NP014700	Nansemond Treatment Plant Digester Capacity Upgrades	\$ 27,352	\$ 14,266	\$ 13,082	\$ 5	\$ -	\$ -
NP014800	High Priority Projects Round 2 Project 8	\$ 30,402	\$ -	\$ -	\$ -	\$ -	\$ -
NP014900	Nansemond Treatment Plant Interceptors Storage Yard	\$ 1,488	\$ 1,488	\$ -	\$ -	\$ -	\$ -
NP015000	Shell Road Interceptor Force Main (SF-144) Segmental Replacement	\$ 743	\$ 575	\$ 168	\$ -	\$ -	\$ -
NP015100	Nansemond Treatment Plant Administration Building Replacement	\$ 8,627	\$ 149	\$ 2,357	\$ 6,122	\$ -	\$ -
Subtotal		\$ 413,038	\$ 68,459	\$ 149,787	\$ 120,165	\$ 39,037	\$ 7,376
Surry							
SU010200	Surry Hydraulic Improvements and Interceptor Force Main	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SU010400	Surry Force Main and Pump Station-Dominion Power Extension	\$ 6,592	\$ 643	\$ 2,375	\$ 3,528	\$ 46	\$ -
Subtotal		\$ 6,592	\$ 643	\$ 2,375	\$ 3,528	\$ 46	\$ -
Virginia Initiative Plant							
VP010920	Norview Estabrook Division I 18-Inch Force Main Replacement Phase II, Section 2	\$ 3,098	\$ 1,119	\$ 1,397	\$ 582	\$ -	\$ -
VP014010	Ferebee Avenue Pump Station Replacement	\$ 7,038	\$ 2,584	\$ 3,818	\$ 636	\$ -	\$ -
VP014021	Sanitary Sewer Project 1950-Part 1 30-Inch Gravity Sewer	\$ 583	\$ 583	\$ -	\$ -	\$ -	\$ -
VP014022	Sanitary Sewer Replacement 1950 – Part 2	\$ 10,810	\$ 4,060	\$ 5,400	\$ 1,350	\$ -	\$ -
VP014700	Ingleside Road Pump Station Replacement	\$ 4,911	\$ 1,773	\$ 3,131	\$ 7	\$ -	\$ -
VP014800	Lee Avenue-Wesley Street Horizontal Valve Replacement	\$ 3,267	\$ 114	\$ 431	\$ 2,722	\$ -	\$ -
VP015320	Larchmont Area Sanitary Sewer Improvements	\$ 62,441	\$ 15,165	\$ 21,774	\$ 21,774	\$ 3,685	\$ 44
VP015400	Lafayette Norview-Estabrook Pump Station Replacements	\$ 17	\$ 17	\$ -	\$ -	\$ -	\$ -
VP015410	City Park Pump Station (PS 106) Replacement	\$ 2,908	\$ 1,381	\$ 1,526	\$ -	\$ -	\$ -
VP015420	Luxembourg Pump Station (PS 113) Replacement and Ashland Sewer Extension	\$ 7,880	\$ 2,156	\$ 4,293	\$ 1,431	\$ -	\$ -
VP015430	Station (PS 57) Rehabilitation	\$ 7,190	\$ 1,159	\$ 3,446	\$ 2,585	\$ -	\$ -
VP016500	Norview-Estabrook Division I 12-Inch Force Main Replacement	\$ 2,384	\$ 741	\$ 1,160	\$ 483	\$ -	\$ -
VP016700	Norview-Estabrook Division I 18-Inch Force Main Replacement Phase III	\$ 2,920	\$ 890	\$ 1,432	\$ 597	\$ -	\$ -
VP017120	Central Norfolk Area Gravity Sewer Improvements Phase II	\$ 1,745	\$ 189	\$ 916	\$ 634	\$ 6	\$ -
Note:	CHES - City of Chesapeake SF - Storage Facility PS - Pump Station						

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2028	FY-2029	FY-2030	FY-2031	FY-2032
MP014300	Middlesex Collection System-Locust Hill Service Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP014410	Middlesex County Hartfield Sewer Collection System Phase I Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP014500	Middlesex Collection System-Saluda Service Area	\$ 935	\$ -	\$ -	\$ -	\$ -
MP014510	Middlesex County Saluda Sewer Collection System Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
MP014600	Middlesex Collection System-Deltaville Service Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP014700	Small Communities Rehabilitation Phase IV	\$ -	\$ -	\$ -	\$ -	\$ -
MP014800	Small Communities Rehabilitation Phase V	\$ -	\$ -	\$ -	\$ -	\$ -
MP014900	Middle Peninsula Operations Center Locker Room and Administrative Facilities	\$ -	\$ -	\$ -	\$ -	\$ -
MP015000	Sharon Road Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP015100	West Point Pump Station 4 (Thompson Avenue) Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
MP015300	King William Central Crossing Pump Station Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
MP015400	Middlesex Interceptor System Program Phase IV	\$ 2	\$ 2	\$ 2	\$ -	\$ -
MP015500	Small Communities Rehabilitation Phase VI	\$ -	\$ -	\$ -	\$ -	\$ -
MP015600	West Point Treatment Plant Final Effluent Pump Station Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP015700	West Point Treatment Plant Secondary Clarifier Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP015800	King William Main Pump Station Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 936	\$ 2	\$ 2	\$ -	\$ -
Nansemond						
NP010620	Suffolk Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP012400	Western Branch Sewer System Gravity Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
NP013000	Nansemond Treatment Plant Motor Control Center Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
NP013400	Deep Creek Interceptor Force Main Risk Mitigation Project	\$ -	\$ -	\$ -	\$ -	\$ -
NP013700	Nansemond Treatment Plant Struvite Recovery Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
NP013820	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph II	\$ -	\$ -	\$ -	\$ -	\$ -
NP013901	Nansemond Service Area I-I Reduction Phase II (CHES)	\$ 1,407	\$ 6,089	\$ 8,475	\$ 17	\$ -
NP013902	Nansemond Service Area I-I Reduction Phase III (CHES)	\$ 4,882	\$ 4,882	\$ 2,452	\$ 11	\$ -
NP014000	Wilroy Pressure Reducing Station and Off-line Storage Facility	\$ -	\$ -	\$ -	\$ -	\$ -
NP014400	Nansemond Treatment Plant Influent Screen Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP014500	Nansemond Treatment Plant Regional Residuals Facility Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -
NP014600	West Road Interceptor Force Main Extension	\$ -	\$ -	\$ -	\$ -	\$ -
NP014700	Nansemond Treatment Plant Digester Capacity Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
NP014800	High Priority Projects Round 2 Project 8	\$ -	\$ -	\$ -	\$ -	\$ -
NP014900	Nansemond Treatment Plant Interceptors Storage Yard	\$ -	\$ -	\$ -	\$ -	\$ -
NP015000	Shell Road Interceptor Force Main (SF-144) Segmental Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP015100	Nansemond Treatment Plant Administration Building Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 6,288	\$ 10,971	\$ 10,927	\$ 28	\$ -
Surry						
SU010200	Surry Hydraulic Improvements and Interceptor Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
SU010400	Surry Force Main and Pump Station-Dominion Power Extension	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -
Virginia Initiative Plant						
VP010920	Norview Estabrook Division I 18-Inch Force Main Replacement Phase II, Section 2	\$ -	\$ -	\$ -	\$ -	\$ -
VP014010	Ferebee Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP014021	Sanitary Sewer Project 1950-Part 1 30-Inch Gravity Sewer	\$ -	\$ -	\$ -	\$ -	\$ -
VP014022	Sanitary Sewer Replacement 1950 – Part 2	\$ -	\$ -	\$ -	\$ -	\$ -
VP014700	Ingleside Road Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP014800	Lee Avenue-Wesley Street Horizontal Valve Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP015320	Larchmont Area Sanitary Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
VP015400	Lafayette Norview-Estabrook Pump Station Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
VP015410	City Park Pump Station (PS 106) Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP015420	Luxembourg Pump Station (PS 113) Replacement and Ashland Sewer Extension	\$ -	\$ -	\$ -	\$ -	\$ -
VP015430	Station (PS 57) Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
VP016500	Norview-Estabrook Division I 12-Inch Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP016700	Norview-Estabrook Division I 18-Inch Force Main Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
VP017120	Central Norfolk Area Gravity Sewer Improvements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
Note:	CHES - City of Chesapeake SF - Storage Facility PS - Pump Station					

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2023 to FY-2032	FY-2023	FY-2024	FY-2025	FY-2026	FY-2027
VP017130	Central Norfolk Area Gravity Sewer Improvements Phase IIA	\$ 4,309	\$ 386	\$ 2,430	\$ 1,474	\$ 19	\$ -
VP018000	Park Avenue Pump Station Replacement	\$ 11,449	\$ 4,695	\$ 6,235	\$ 520	\$ -	\$ -
VP018200	Effingham Interceptor Vault Removal	\$ 3,630	\$ 2,555	\$ 1,075	\$ -	\$ -	\$ -
VP018301	VIP Service Area I-I Reduction Phase I (PORTS)	\$ 13,023	\$ 689	\$ 1,011	\$ 4,003	\$ 7,300	\$ 20
VP018302	Portsmouth Pump Station Upgrades (VIP-HPP-04B)	\$ 11,369	\$ -	\$ -	\$ -	\$ 312	\$ 823
VP018303	VIP Service Area I-I Reduction Phase III (PORTS)	\$ 13,023	\$ 689	\$ 1,011	\$ 4,003	\$ 7,300	\$ 20
VP018304	Camden Avenue Pump Station Upgrades (VIP-HPP-04D)	\$ 5,916	\$ -	\$ -	\$ -	\$ 182	\$ 297
VP018305	Camden Avenue Gravity Improvements (VIP-HPP-04E)	\$ 6,852	\$ -	\$ 470	\$ 4,666	\$ 1,716	\$ -
VP018400	State Street Pressure Reducing Station and Offline Storage (VIP-HPP-05)	\$ 20,336	\$ 249	\$ 249	\$ 249	\$ 249	\$ 614
VP018500	Elizabeth River Crossing Reliability Improvements	\$ 1,651	\$ 1,102	\$ 499	\$ 50	\$ -	\$ -
VP018800	Virginia Initiative Plant Administration Building Renovation	\$ 3,178	\$ 1,880	\$ 1,281	\$ 17	\$ -	\$ -
VP018900	Norchester Pump Station Screening Improvements	\$ 417	\$ 326	\$ 90	\$ 1	\$ -	\$ -
VP019000	Colley Ave Pump Station Pump Replacement	\$ 693	\$ 316	\$ 372	\$ 5	\$ -	\$ -
VP019100	Virginia Initiative Plant Incinerator Burner Replacement	\$ 4,441	\$ 2,961	\$ 1,480	\$ -	\$ -	\$ -
VP019200	Virginia Initiative Plant Motor Control Center Replacements	\$ 1,474	\$ 1,040	\$ 433	\$ -	\$ -	\$ -
VP019300	High Priority Projects Round 2 Project 4	\$ 13,370	\$ -	\$ -	\$ -	\$ -	\$ -
VP019400	High Priority Projects Round 2 Project 5	\$ 16,135	\$ -	\$ -	\$ -	\$ -	\$ -
VP019600	Virginia Initiative Plant Waste Activated Solids Thickening Improvements	\$ 2,800	\$ -	\$ 56	\$ 692	\$ 1,172	\$ 881
Subtotal		\$ 223,224	\$ 48,818	\$ 65,418	\$ 48,481	\$ 21,941	\$ 2,698
Williamsburg							
WB012500	Lodge Road Pump Station Upgrades	\$ 1,699	\$ 44	\$ 177	\$ 921	\$ 554	\$ 3
WB012600	Kingsmill Pump Station Piping Replacement and Wet Well Rehabilitation	\$ 810	\$ 810	\$ -	\$ -	\$ -	\$ -
WB012900	Williamsburg Treatment Plant Administration Building Renovation	\$ 1,775	\$ 1,770	\$ -	\$ -	\$ -	\$ -
WB013000	Williamsburg Treatment Plant Intermediate Clarifier Wet Weather System	\$ 2,088	\$ 139	\$ 272	\$ -	\$ -	\$ -
WB013100	Williamsburg Treatment Plant Outfall Flow Control System Repairs	\$ 1,561	\$ 201	\$ 1,355	\$ 1	\$ 1	\$ 1
WB013200	High Priority Projects Round 2 Project 1	\$ 57,683	\$ -	\$ -	\$ -	\$ -	\$ -
WB013300	Williamsburg Treatment Plant Motor Control Center Replacements	\$ 2,633	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 23,544	\$ 3,205	\$ 2,117	\$ 2,841	\$ 778	\$ 711
York River							
YR010300	Foxridge, Woodland Road and Fox Hill Road Gravity Sewer Rehabilitation	\$ 3,092	\$ 1,027	\$ 2,060	\$ 4	\$ -	\$ -
YR010520	Magruder Mercury Interceptor Force Main Replacement - Section B	\$ 5,142	\$ 829	\$ 3,446	\$ 865	\$ 1	\$ -
YR010530	Magruder Mercury Interceptor Force Main Replacement - Section C	\$ 6,235	\$ 65	\$ 571	\$ 3,448	\$ 2,151	\$ -
YR010900	Tabb Pressure Reducing Station and Offline Storage Facility	\$ 24,441	\$ 18,327	\$ 6,114	\$ -	\$ -	\$ -
YR011900	Bethel-Poquoson Force Main Part III Replacement	\$ 371	\$ 202	\$ 169	\$ -	\$ -	\$ -
YR013900	York River System Isolation Valve Installation and Replacement	\$ 2,912	\$ 2,912	\$ -	\$ -	\$ -	\$ -
YR014000	York River Treatment Plant Administration Building Renovation	\$ 5,923	\$ 3,382	\$ 2,538	\$ 4	\$ -	\$ -
YR014100	Coliseum Pressure Reducing Station Enhanced Storage	\$ 8,086	\$ 55	\$ -	\$ 492	\$ 6,704	\$ 834
YR014200	LaSalle Avenue Boat Harbor to York River Interconnect Force Main	\$ 16,816	\$ -	\$ 1,020	\$ 1,582	\$ 11,367	\$ 2,846
YR014300	Bethel-Poquoson Force Main Phase II (Wythe Creek Road) Replacement	\$ 1,023	\$ 1,022	\$ 1	\$ -	\$ -	\$ -
YR014600	Bethel-Poquoson Force Main Part IV Replacement-Wythe Creek Exposed Crossing	\$ 1,383	\$ 694	\$ 685	\$ 1	\$ 1	\$ 1
YR014700	Coliseum PRS Off-Line Storage Tank Odor Control Upgrades	\$ 807	\$ 386	\$ 420	\$ 2	\$ -	\$ -
YR014800	York River Treatment Plant Primary Clarifier Influent and Effluent Pipe Rehabilitation	\$ 3,796	\$ 2,976	\$ 820	\$ -	\$ -	\$ -
YR014900	York River DEMON Upgrades	\$ 500	\$ 83	\$ 250	\$ 167	\$ -	\$ -
Subtotal		\$ 80,527	\$ 31,959	\$ 18,093	\$ 6,566	\$ 20,225	\$ 3,682
General							
GN010730	Horizontal Valve Replacement Phase III	\$ 1,213	\$ 45	\$ 159	\$ 1,009	\$ -	\$ -
GN013300	Treatment Plant Grease Handling Facilities	\$ 2,255	\$ 2,255	\$ -	\$ -	\$ -	\$ -
GN014900	North Shore Gravity Sewer Improvements Phase I	\$ 5,426	\$ 4,332	\$ 1,091	\$ 3	\$ -	\$ -
GN015000	South Shore Gravity Sewer Improvements Phase I	\$ 786	\$ 130	\$ 656	\$ -	\$ -	\$ -
GN015300	Interceptor System Valve Improvements Phase I	\$ 2,502	\$ 236	\$ 1,596	\$ 668	\$ 2	\$ -
GN015400	South Shore Aerial Crossing Improvements	\$ 243	\$ 243	\$ -	\$ -	\$ -	\$ -
GN015800	North Shore Automated Diversion Facilities	\$ 1,816	\$ 1,671	\$ 144	\$ -	\$ -	\$ -
GN016220	SWIFT Research Center Full Scale MAR Well Integration	\$ 859	\$ 859	\$ -	\$ -	\$ -	\$ -
GN016311	Outfall Dispersion Modeling for Full Scale SWIFT	\$ 1,118	\$ 100	\$ 101	\$ 102	\$ 102	\$ 102
GN016320	Program Management of SWIFT Full Scale Implementation	\$ 57,118	\$ 5,603	\$ 5,863	\$ 5,688	\$ 5,688	\$ 5,688
GN016331	SWIFT Managed Aquifer Recharge Services	\$ 420	\$ 275	\$ 145	\$ -	\$ -	\$ -
GN016342	Williamsburg SWIFT Land Acquisition	\$ 1,497	\$ -	\$ -	\$ -	\$ -	\$ -
Note:	PORTS - City of Portsmouth VIP - Virginia Initiative Plant HPP - High Priority Project DEMON - Deamonification SWIFT - Sustainable Water Initiative for Tomorrow MAR - Managed Aquifer Recharge						

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2028	FY-2029	FY-2030	FY-2031	FY-2032
VP017130	Central Norfolk Area Gravity Sewer Improvements Phase IIA	\$ -	\$ -	\$ -	\$ -	\$ -
VP018000	Park Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP018200	Effingham Interceptor Vault Removal	\$ -	\$ -	\$ -	\$ -	\$ -
VP018301	VIP Service Area I-I Reduction Phase I (PORTS)	\$ -	\$ -	\$ -	\$ -	\$ -
VP018302	Portsmouth Pump Station Upgrades (VIP-HPP-04B)	\$ 6,673	\$ 3,562	\$ -	\$ -	\$ -
VP018303	VIP Service Area I-I Reduction Phase III (PORTS)	\$ -	\$ -	\$ -	\$ -	\$ -
VP018304	Camden Avenue Pump Station Upgrades (VIP-HPP-04D)	\$ 1,866	\$ 3,572	\$ -	\$ -	\$ -
VP018305	Camden Avenue Gravity Improvements (VIP-HPP-04E)	\$ -	\$ -	\$ -	\$ -	\$ -
VP018400	State Street Pressure Reducing Station and Offline Storage (VIP-HPP-05)	\$ 704	\$ 4,481	\$ 10,134	\$ 3,396	\$ 9
VP018500	Elizabeth River Crossing Reliability Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
VP018800	Virginia Initiative Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
VP018900	Norchester Pump Station Screening Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
VP019000	Colley Ave Pump Station Pump Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP019100	Virginia Initiative Plant Incinerator Burner Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP019200	Virginia Initiative Plant Motor Control Center Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
VP019300	High Priority Projects Round 2 Project 4	\$ -	\$ -	\$ -	\$ -	\$ 1,471
VP019400	High Priority Projects Round 2 Project 5	\$ -	\$ -	\$ -	\$ -	\$ -
VP019600	Virginia Initiative Plant Waste Activated Solids Thickening Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 9,242	\$ 11,615	\$ 10,134	\$ 3,396	\$ 1,480
Williamsburg						
WB012500	Lodge Road Pump Station Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
WB012600	Kingsmill Pump Station Piping Replacement and Wet Well Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
WB012900	Williamsburg Treatment Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
WB013000	Williamsburg Treatment Plant Intermediate Clarifier Wet Weather System	\$ -	\$ -	\$ -	\$ -	\$ -
WB013100	Williamsburg Treatment Plant Outfall Flow Control System Repairs	\$ -	\$ -	\$ -	\$ -	\$ -
WB013200	High Priority Projects Round 2 Project 1	\$ -	\$ -	\$ -	\$ 6,345	\$ 6,634
WB013300	Williamsburg Treatment Plant Motor Control Center Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 913	\$ -	\$ -	\$ 6,345	\$ 6,634
York River						
YR010300	Foxridge, Woodland Road and Fox Hill Road Gravity Sewer Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
YR010520	Magruder Mercury Interceptor Force Main Replacement - Section B	\$ -	\$ -	\$ -	\$ -	\$ -
YR010530	Magruder Mercury Interceptor Force Main Replacement - Section C	\$ -	\$ -	\$ -	\$ -	\$ -
YR010900	Tabb Pressure Reducing Station and Offline Storage Facility	\$ -	\$ -	\$ -	\$ -	\$ -
YR011900	Bethel-Poquoson Force Main Part III Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR013900	York River System Isolation Valve Installation and Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR014000	York River Treatment Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
YR014100	Coliseum Pressure Reducing Station Enhanced Storage	\$ -	\$ -	\$ -	\$ -	\$ -
YR014200	LaSalle Avenue Boat Harbor to York River Interconnect Force Main	\$ 1	\$ -	\$ -	\$ -	\$ -
YR014300	Bethel-Poquoson Force Main Phase II (Wythe Creek Road) Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR014600	Bethel-Poquoson Force Main Part IV Replacement-Wythe Creek Exposed Crossing	\$ -	\$ -	\$ -	\$ -	\$ -
YR014700	Coliseum PRS Off-Line Storage Tank Odor Control Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
YR014800	York River Treatment Plant Primary Clarifier Influent and Effluent Pipe Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
YR014900	York River DEMON Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 1	\$ -	\$ -	\$ -	\$ -
General						
GN010730	Horizontal Valve Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
GN013300	Treatment Plant Grease Handling Facilities	\$ -	\$ -	\$ -	\$ -	\$ -
GN014900	North Shore Gravity Sewer Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN015000	South Shore Gravity Sewer Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN015300	Interceptor System Valve Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN015400	South Shore Aerial Crossing Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
GN015800	North Shore Automated Diversion Facilities	\$ -	\$ -	\$ -	\$ -	\$ -
GN016220	SWIFT Research Center Full Scale MAR Well Integration	\$ -	\$ -	\$ -	\$ -	\$ -
GN016311	Outfall Dispersion Modeling for Full Scale SWIFT	\$ 102	\$ 101	\$ 101	\$ 102	\$ 102
GN016320	Program Management of SWIFT Full Scale Implementation	\$ 5,688	\$ 5,688	\$ 5,688	\$ 5,220	\$ 4,790
GN016331	SWIFT Managed Aquifer Recharge Services	\$ -	\$ -	\$ -	\$ -	\$ -
GN016342	Williamsburg SWIFT Land Acquisition	\$ -	\$ -	\$ -	\$ 642	\$ 856
Note:	PORTS - City of Portsmouth VIP - Virginia Initiative Plant HPP - High Priority Project DEMON - Deamonification SWIFT - Sustainable Water Initiative for Tomorrow MAR - Managed Aquifer Recharge					

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2023 to FY-2032	FY-2023	FY-2024	FY-2025	FY-2026	FY-2027
GN016344	James River Land Improvements	\$ 4,388	\$ 4,032	\$ 356	\$ -	\$ -	\$ -
GN016346	Boat Harbor Transmission Force Main Land Acquisition	\$ 1,250	\$ 1,250	\$ -	\$ -	\$ -	\$ -
GN016347	James River Land Improvements, Phase II Trails	\$ 1,489	\$ -	\$ -	\$ 681	\$ 808	\$ -
GN016350	Williamsburg SWIFT Facility	\$ 130,508	\$ -	\$ -	\$ -	\$ -	\$ -
GN016351	Williamsburg Recharge Wells	\$ 24,444	\$ -	\$ -	\$ -	\$ -	\$ -
GN016360	James River SWIFT Facility	\$ 238,925	\$ 69,435	\$ 96,891	\$ 53,133	\$ 18,697	\$ 768
GN016361	James River Recharge Wells (On Site)	\$ 12,626	\$ 12,355	\$ 271	\$ -	\$ -	\$ -
GN016362	James River Recharge Wells (Off Site)	\$ 42,766	\$ 12,896	\$ 21,874	\$ 7,996	\$ -	\$ -
GN016363	James River Recharge Well Enhancements	\$ 305	\$ -	\$ -	\$ 103	\$ 203	\$ -
GN016370	York River SWIFT Facility	\$ 175,556	\$ -	\$ -	\$ -	\$ -	\$ -
GN016371	York River Recharge Wells	\$ 27,500	\$ -	\$ -	\$ -	\$ -	\$ -
GN016380	Nansemond SWIFT Facility	\$ 306,350	\$ 4,453	\$ 4,964	\$ 19,128	\$ 86,017	\$ 120,574
GN016381	Nansemond Recharge Wells	\$ 48,048	\$ 940	\$ 714	\$ 5,501	\$ 13,066	\$ 14,671
GN016390	VIP SWIFT Facility	\$ 334,132	\$ -	\$ 5,506	\$ 328	\$ 8,312	\$ 8,132
GN016391	VIP Recharge Wells	\$ 73,332	\$ -	\$ 188	\$ 1,948	\$ 688	\$ 592
GN016392	VIP SWIFT Site Work	\$ 38,893	\$ 702	\$ 583	\$ 2,600	\$ 31,110	\$ 3,897
GN016700	Treatment Plant Solids Handling Replacement Phase II	\$ 4,354	\$ 2,750	\$ 1,604	\$ -	\$ -	\$ -
GN017100	Climate Change Planning	\$ 1,271	\$ 1,271	\$ -	\$ -	\$ -	\$ -
GN017200	Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements Phase II	\$ 5,066	\$ 1,223	\$ 1,223	\$ 1,223	\$ 1,223	\$ 172
GN017300	Treatment Plant Dewatering Replacement Program	\$ 31,500	\$ -	\$ -	\$ 4,540	\$ 4,540	\$ 4,540
GN017400	Treatment Plant Dewatering Replacement Phase III	\$ 3,596	\$ 346	\$ 3,250	\$ -	\$ -	\$ -
GN017500	Fleet Management Program	\$ 13,088	\$ -	\$ 2,392	\$ 2,698	\$ 2,469	\$ 1,833
GN017900	Solids System Improvements for Army Base MHI Offline	\$ 4,000	\$ 2,667	\$ 1,333	\$ -	\$ -	\$ -
GN018000	Inflow Reduction Program - Phase I	\$ 964	\$ 753	\$ 163	\$ -	\$ -	\$ -
GN018400	Conceptual Project Development (FY23)	\$ 413	\$ 413	\$ -	\$ -	\$ -	\$ -
GN018500	Fleet Management (FY23) □	\$ 2,623	\$ 2,623	\$ -	\$ -	\$ -	\$ -
GN018600	North Shore Galvanic Cathodic Protection Rehabilitation	\$ 1,293	\$ -	\$ 423	\$ 870	\$ -	\$ -
GN018700	South Shore Galvanic Cathodic Protection Rehabilitation Phase I	\$ 1,461	\$ -	\$ -	\$ 144	\$ 1,317	\$ -
GN018800	South Shore Galvanic Cathodic Protection Rehabilitation Phase II	\$ 1,461	\$ -	\$ 94	\$ 1,203	\$ 164	\$ -
GN018900	Pump Station Motor Control Center Replacements – Phase I	\$ 2,490	\$ 830	\$ 415	\$ 415	\$ 415	\$ 415
GN019000	Water Quality Department Instrumentation Equipment (FY23)	\$ 104	\$ 104	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 1,239,224	\$ 134,793	\$ 151,999	\$ 109,982	\$ 174,819	\$ 161,385
Future Improvements							
IP010400	Interceptor System Rehabilitation and Replacement	\$ 281,196	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 281,196	\$ -	\$ -	\$ -	\$ -	\$ -
CIP TOTALS		\$ 3,361,366	\$ 513,750	\$ 742,353	\$ 557,895	\$ 326,316	\$ 221,053
Note:	SWIFT - Sustainable Water Initiative for Tomorrow VIP - Virginia Initiative Plant SCADA - Supervisory Control and Data Acquisition MHI - Multiple Hearth Incinerator						

FY-2023 to FY-2032

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2028	FY-2029	FY-2030	FY-2031	FY-2032
GN016344	James River Land Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
GN016346	Boat Harbor Transmission Force Main Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
GN016347	James River Land Improvements, Phase II Trails	\$ -	\$ -	\$ -	\$ -	\$ -
GN016350	Williamsburg SWIFT Facility	\$ -	\$ -	\$ -	\$ -	\$ 2,175
GN016351	Williamsburg Recharge Wells	\$ -	\$ -	\$ -	\$ -	\$ 467
GN016360	James River SWIFT Facility	\$ -	\$ -	\$ -	\$ -	\$ -
GN016361	James River Recharge Wells (On Site)	\$ -	\$ -	\$ -	\$ -	\$ -
GN016362	James River Recharge Wells (Off Site)	\$ -	\$ -	\$ -	\$ -	\$ -
GN016363	James River Recharge Well Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
GN016370	York River SWIFT Facility	\$ -	\$ -	\$ -	\$ 1,413	\$ 1,571
GN016371	York River Recharge Wells	\$ -	\$ -	\$ -	\$ -	\$ -
GN016380	Nansemond SWIFT Facility	\$ 50,944	\$ 20,270	\$ -	\$ -	\$ -
GN016381	Nansemond Recharge Wells	\$ 10,680	\$ 2,476	\$ -	\$ -	\$ -
GN016390	VIP SWIFT Facility	\$ 45,000	\$ 94,954	\$ 94,531	\$ 55,024	\$ 22,345
GN016391	VIP Recharge Wells	\$ 10,626	\$ 10,749	\$ 10,749	\$ 10,792	\$ 10,824
GN016392	VIP SWIFT Site Work	\$ -	\$ -	\$ -	\$ -	\$ -
GN016700	Treatment Plant Solids Handling Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
GN017100	Climate Change Planning	\$ -	\$ -	\$ -	\$ -	\$ -
GN017200	Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
GN017300	Treatment Plant Dewatering Replacement Program	\$ 4,540	\$ 4,540	\$ 4,540	\$ 4,259	\$ -
GN017400	Treatment Plant Dewatering Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
GN017500	Fleet Management Program	\$ 1,843	\$ 1,853	\$ -	\$ -	\$ -
GN017900	Solids System Improvements for Army Base MHI Offline	\$ -	\$ -	\$ -	\$ -	\$ -
GN018000	Inflow Reduction Program - Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN018400	Conceptual Project Development (FY23)	\$ -	\$ -	\$ -	\$ -	\$ -
GN018500	Fleet Management (FY23) □	\$ -	\$ -	\$ -	\$ -	\$ -
GN018600	North Shore Galvanic Cathodic Protection Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
GN018700	South Shore Galvanic Cathodic Protection Rehabilitation Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN018800	South Shore Galvanic Cathodic Protection Rehabilitation Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
GN018900	Pump Station Motor Control Center Replacements – Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN019000	Water Quality Department Instrumentation Equipment (FY23)	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 129,423	\$ 140,631	\$ 115,610	\$ 77,450	\$ 43,131
Future Improvements						
IP010400	Interceptor System Rehabilitation and Replacement	\$ -	\$ 23,668	\$ 57,504	\$ 86,402	\$ 113,622
Subtotal		\$ -	\$ 23,668	\$ 57,504	\$ 86,402	\$ 113,622
CIP TOTALS		\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
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1434 Air Rail Avenue
Virginia Beach, VA 23455
www.hrsd.com

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