



Annual Budget

Fiscal Year 2021

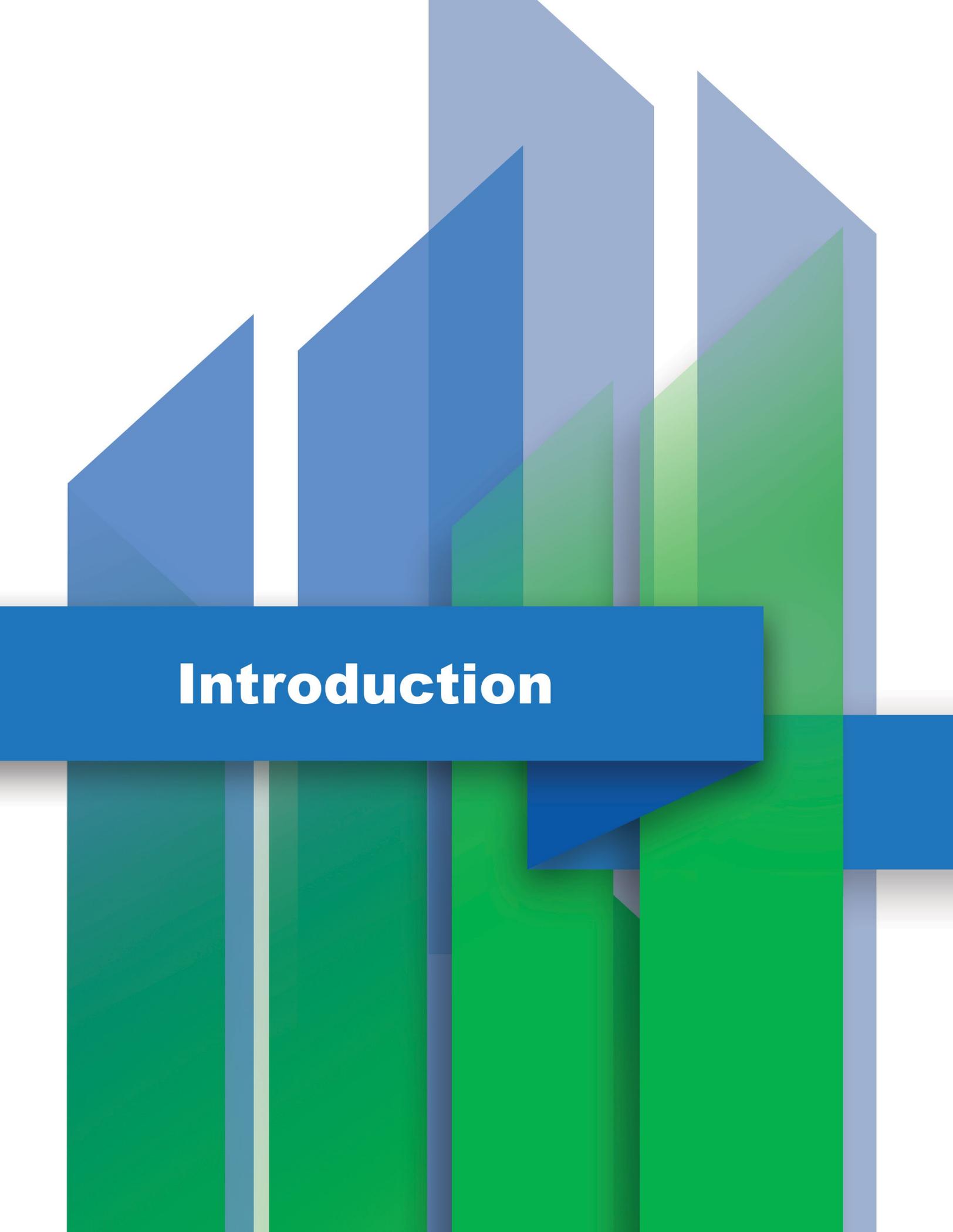
(July 1, 2020 - June 30, 2021)

HRSD

HRSD Annual Budget For
Fiscal Year 2021
(July 1, 2020 – June 30, 2021)

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The image features a white background with several overlapping, semi-transparent geometric shapes. On the left, there are three blue trapezoidal shapes of increasing height from left to right. On the right, there are three green trapezoidal shapes of increasing height from left to right. A solid blue horizontal banner is positioned across the middle of the image, containing the word 'Introduction' in white, bold, sans-serif font. The banner overlaps the blue shapes on the left and the green shapes on the right.

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 80 years, HRSD has developed into one of the premier wastewater treatment organizations in the nation. With 16 treatment facilities capable of treating 249 million gallons of wastewater each day, HRSD has eliminated the discharge of untreated sewage into the waters of Hampton Roads 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 80-year investment in wastewater infrastructure.

The Governor-appointed, eight-member HRSD Commission approved this Fiscal Year 2021 budget at its regular meeting on March 24, 2020. 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 here, as it does across the nation. However, wastewater treatment is still a bargain in Hampton Roads, with the typical household paying about \$1 per day for this essential service, protecting public health and our treasured local waterways.

Federal Mandates Drive HRSD Spending

The regional sewer system, although never designed to handle storm water, fills with rainwater runoff, ground water and tidal water during larger storms. At times, the regional system fills beyond capacity and overflows onto local streets. While these occasional overflows have minimal impact on water quality, the U.S. Environmental Protection Agency has made minimizing these types of events a national priority, and HRSD is under a Federal mandate to invest nearly \$2 billion (equaling more than \$4,100 per HRSD customer account) to further reduce the number and volume of overflows from the regional sewer system. In response to this mandate, HRSD is working throughout the region, in partnership with the local governments we serve, to minimize the impact of storm events on the regional sewer system and the waterways we value so greatly.

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, the agricultural and stormwater required reductions in Virginia are lagging behind, and Virginia is looking to require further expensive reductions from wastewater treatment facilities to compensate for the lack of progress with these other major nutrient sources.

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. 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 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.

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. The challenges of restoring the Chesapeake Bay, the depletion of our groundwater reserves, the impact of sea level rise and the threat of salt-water contamination of coastal groundwater may all be addressed with HRSD's Sustainable Water Initiative for Tomorrow (SWIFT). The concept is for HRSD to 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. The benefits of SWIFT are significant and are needed immediately.

Financing a Sustainable Water Future

HRSD is pursuing SWIFT with a goal of obtaining required approvals to construct full-scale facilities beginning in 2020. The SWIFT Research Center began operations in May 2018 and has already recharged the aquifer with over 300 million gallons of SWIFT Water, wastewater treated to meet drinking water standards. HRSD is committed to full scale implementation of this initiative only if it can be accomplished within the financial framework laid out in the Financial Forecast as presented in this budget. In a rare bipartisan move, Congress passed [H.R. 7279](#) in December 2018 and signed by the President in January 2019, amending 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. Integrated planning provides the ability to defer many of the proposed capital improvements related to reducing system overflows until after SWIFT is complete. 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. In contrast, the positive impact SWIFT will have on local waterways, eastern Virginia and the entire Chesapeake Bay is significant, will be immediately evident and critical to sustaining the vitality and prosperity of Hampton Roads and all of eastern Virginia for generations to come.

Reducing overflows from the regional sewer system and reducing the amount of nutrients discharged by our treatment plants are both driven by regulations with which HRSD must comply. These regulatory mandates consume over 80 percent of the \$2.9 billion 10-year Capital Improvement Plan. It is within that portion of our capital improvement plan that we will reprioritize mandated projects to allow construction of SWIFT, to achieve significantly more environmental benefits without influencing our Financial Forecast.

HRSD finances its capital projects by issuing bonds and using cash on hand. Over the past 10 years, the annual investment in capital projects (debt payments and cash funded) has grown from less than 38 percent of HRSD's total revenue to more than 50 percent with the Fiscal Year 2021 budget. HRSD is investing in the regional wastewater infrastructure to ensure we leave a fully functional system to the next generation. While HRSD continues to focus on making the right investments in Hampton Roads, across

the nation the need for investment in all infrastructure continues to grow. The [American Society of Civil Engineers' 2017 Infrastructure Report Card](#) graded the current state of wastewater infrastructure at a D+. [The US Water Alliance's Report, The Economic Benefits of Investing in Water Infrastructure](#), estimates the unmet wastewater investment at over \$82 billion per year. The report highlights the lack of adequate federal investment in wastewater infrastructure, showing the drop in federal investment from 63 percent in 1977 to less than 9 percent in 2016. State, regional and local governments have had to fill that funding gap, passing on significant rate increases as utilities must price service to recover full costs.

HRSD has focused on long-term investments for the past 15 years. A long-range financial forecast is updated each year with projected revenue requirements. The HRSD Commission has closely followed this roadmap for more than a decade. This year, however, with the significant economic uncertainty, the planned nine percent regional wastewater rate increase that would have taken effect on July 1, 2020 was eliminated in consideration of the economic stresses created by the COVID-19 pandemic on ratepayers. Holding rates at the 2020 level will be accommodated through reprioritizing some planned investments, obtaining relief from Federal and state regulatory schedules, taking advantage of historically low interest rates and the judicious use of reserves previously set aside for unexpected needs. HRSD will continue to monitor the COVID-19 impact on our ratepayers and make further adjustments to investment plans should the economic conditions warrant.

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 in 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 80 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,



Ted Henifin, P.E.
General Manager

Principal Officials

March 24, 2020

COMMISSIONERS

Frederick N. Elofson, CPA, Chair

Maurice P. Lynch, PhD, Vice-Chair

Michael E. Glenn

Vishnu K. Lakdawala, PhD

Willie Levenston, Jr.

Stephen C. Rodriguez

Elizabeth A. Taraski, PhD

Molly J. Ward

COMMISSION SECRETARY

Jennifer L. Cascio

SENIOR STAFF

Edward G. Henifin, PE
General Manager

Jay A. Bernas, PE
Director of Finance
and Treasurer

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

Donald C. Corrado
Director of Information
Technology

Steven G. de Mik, CPA
Director of Operations

Paula A. Hogg
Director of Talent Management

Bruce W. Husselbee, PE
Director of Engineering

James J. Pletl, PhD
Director of Water Quality

Leila Rice, APR
Director of Communications

COUNSEL

Kellam, Pickrell, Cox & Anderson, PC
General Counsel

Jones, Blechman, Woltz & Kelly, PC
Associate 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	18 communities encompassing 3,087 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 1.8 million, nearly one-fifth of Virginia's population, reside in HRSD's service area.

Operation and Facilities

No. of Positions (FY-2021)	862
Miles of Interceptor Systems	541 Miles
Wastewater Treated	153 million gallons per day average
Wastewater Capacity	249 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

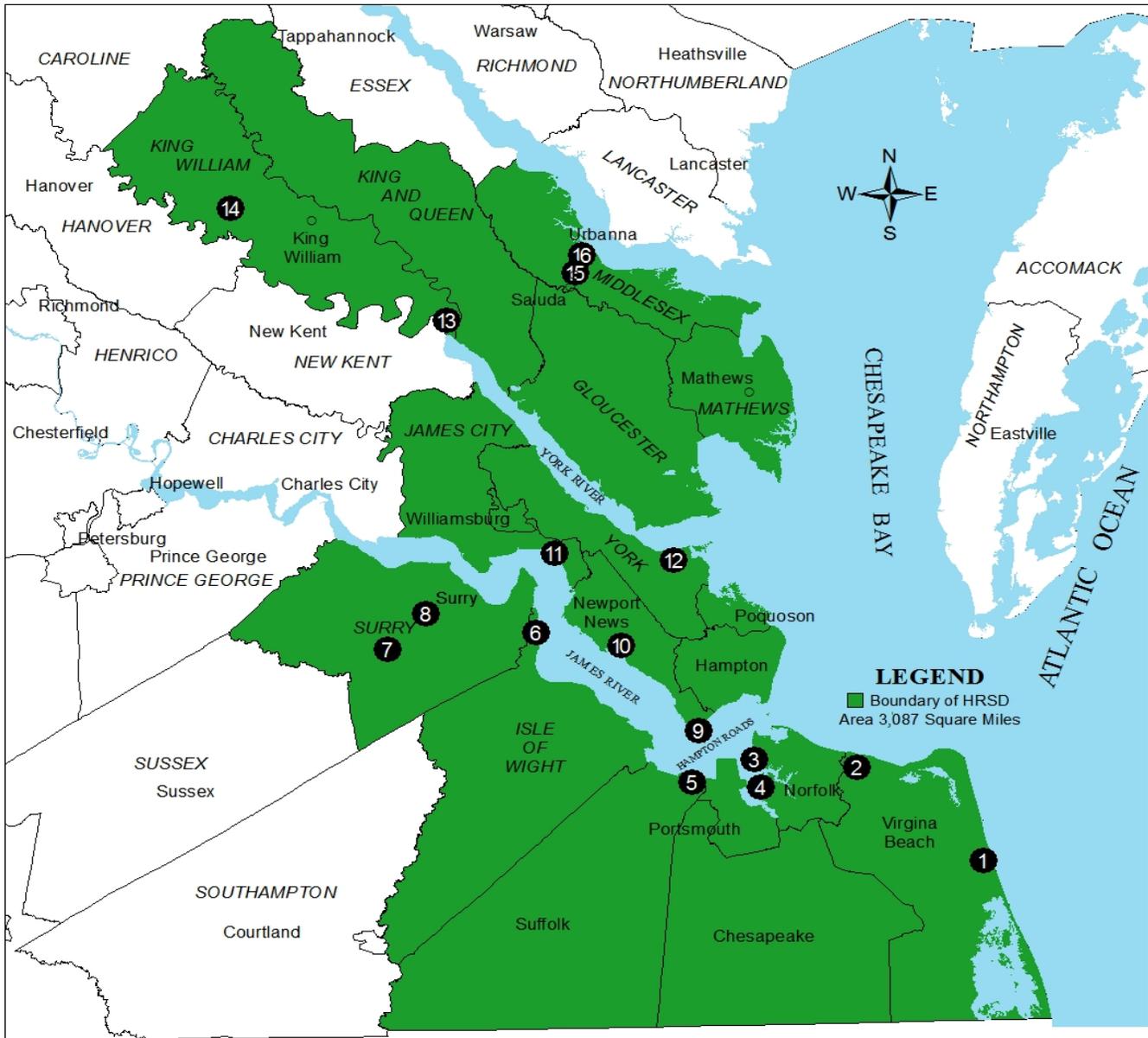
Operating Budget (FY-2021)	\$332,397,000
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HRSD Service Area

A Political Subdivision of the Commonwealth of Virginia

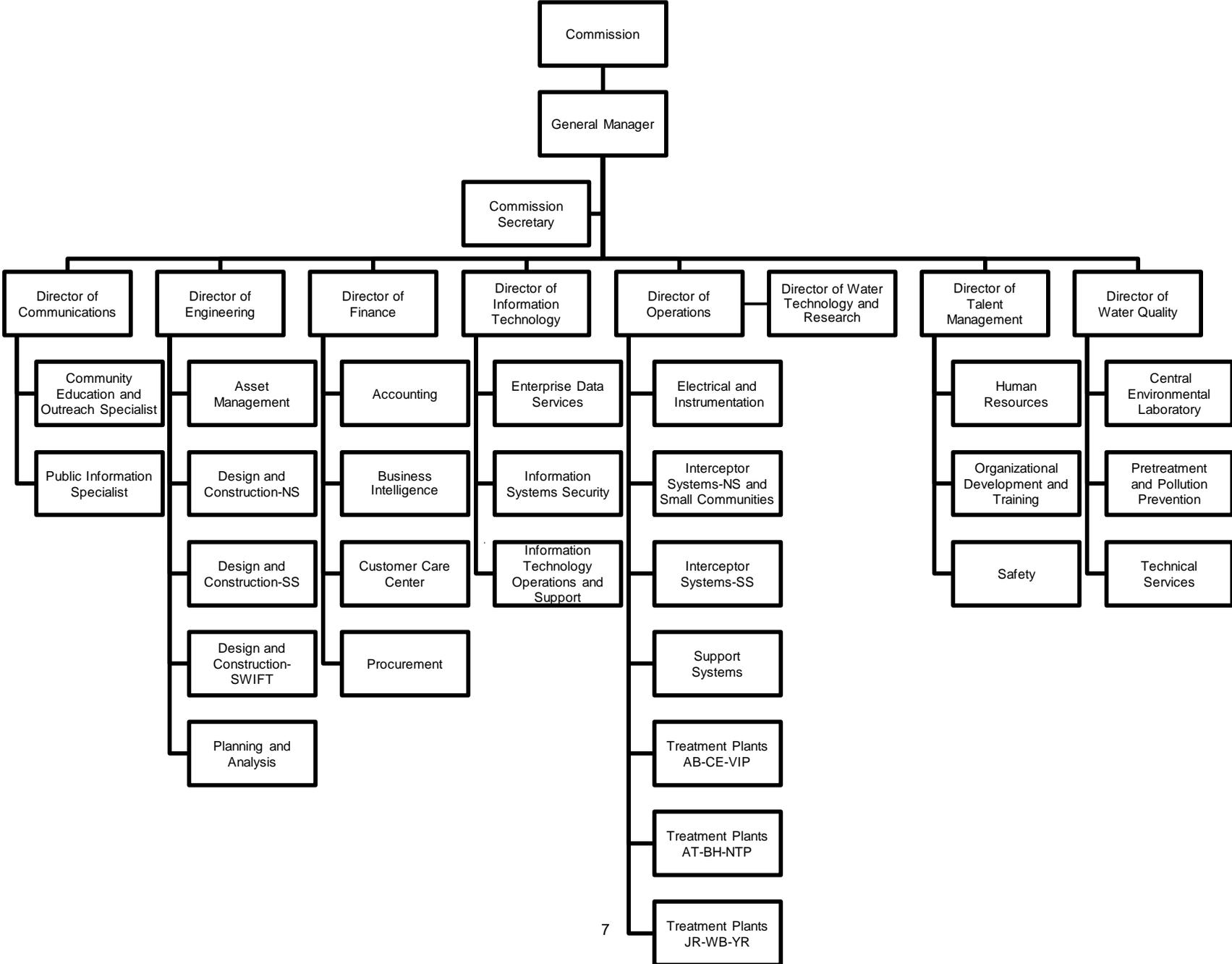
Facilities include the following:

- | | | |
|------------------------------------|---|--|
| 1. Atlantic, Virginia Beach | 9. Boat Harbor, Newport News | Serving the Cities of
Chesapeake, Hampton,
Newport News, Norfolk,
Poquoson, Portsmouth, Suffolk,
Virginia Beach, Williamsburg and the
Counties of Gloucester,
Isle of Wight, James City,
King and Queen, King William,
Mathews, Middlesex, Surry* and York
*Excluding the Town of Claremont |
| 2. Chesapeake-Elizabeth, Va. Beach | 10. James River, Newport News | |
| 3. Army Base, Norfolk | 11. Williamsburg, James City County | |
| 4. Virginia Initiative, Norfolk | 12. York River, York County | |
| 5. Nansemond, Suffolk | 13. West Point, King William County | |
| 6. Lawnes Point, Smithfield | 14. King William, King William County | |
| 7. County of Surry | 15. Central Middlesex, Middlesex County | |
| 8. Town of Surry | 16. Urbanna, Middlesex County | |



HRSD Organization Chart

July 1, 2020



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 2019.

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 every HRSD treatment plant during the year ended June 30, 2019. The major treatment plants received the following awards in recognition of their outstanding permit compliance status: Atlantic—Gold, Boat Harbor—Platinum (17 consecutive years), Chesapeake-Elizabeth—Gold, James River—Platinum, Nansemond—Platinum (17 consecutive years), Virginia Initiative Plant—Platinum (23 consecutive years), Williamsburg—Platinum (24 consecutive years) and York River—Platinum (11 consecutive years). Four treatment plants in the Small Communities Division, Central Middlesex, King William Urbanna and West Point, earned Silver Awards while Lawnes Point and Surry received Gold Awards.

Additional awards and honors received during the year ended June 30, 2019 include NACWA National Achievement Awards in the categories of Workforce Development, and Operations and Environmental Performance. The SWIFT Research Center was named best project in the Water/Environment category from the Engineering News Record Mid-Atlantic Region. Honors and Awards received include NACWA National Achievement Awards in the following categories: Public Information and Education: E-Media; Operations and Environmental Performance; Workforce Development, and Research and Technology. The SWIFT Research Center also earned the 2019 Governor's Environmental Excellence Award, Gold Medal winner in the environmental project category.

Rate Schedules

WASTEWATER TREATMENT RATE SCHEDULE

<u>Service</u>		<u>FY-2021</u>	<u>FY-2020</u>
Flow (monthly basis)			
Per CCF *		\$ 5.86	\$ 5.86
Minimum charge (per day)		0.30	0.30
Surcharge, per milligrams/liter per CCF	<u>In Excess of</u>		
Biochemical Oxygen Demand (BOD)	282 mg/L	\$ 0.000129	\$ 0.000129
Total Suspended Solids (TSS)	261 mg/L	0.000630	0.000630
Total Phosphorus (TP)	6 mg/L	0.009871	0.009871
Total Kjeldahl Nitrogen (TKN)	47 mg/L	0.003378	0.003378
Surcharge, per 100 pounds			
BOD	282 mg/L	\$ 2.07	\$ 2.07
TSS	261 mg/L	10.08	10.08
TP	6 mg/L	158.12	158.12
TKN	47 mg/L	54.11	54.11
Septic, per gallon		\$ 0.1717	\$ 0.1717
Residential flat rate (per day)		\$ 1.62	\$ 1.62

* CCF = 100 Cubic Feet (approximately 748 gallons)

VOLUME BASED FACILITY RATE SCHEDULE

<u>Meter Size</u>	<u>FY-2021</u>	<u>FY-2020</u>
5/8 Inch	\$ 1,905	\$ 1,905
3/4 Inch	4,210	4,210
1 Inch	7,410	7,410
1 ½ Inch	16,645	16,645
2 Inch	30,505	30,505
3 Inch	73,810	73,810
4 Inch	138,445	138,445
6 Inch	336,960	336,960
8 Inch	634,710	634,710
10 Inch	1,038,525	1,038,525
12 Inch	1,554,120	1,554,120
14 Inch	2,186,505	2,186,505
16 Inch	2,940,135	2,940,135

SMALL COMMUNITIES RATE SCHEDULE

	<u>FY-2021</u>	<u>FY-2020</u>
Flow (monthly basis) per 1,000 gallons		
King William	\$ 13.82	\$ 13.82
Mathews	13.43	13.43
Surry	13.43	13.43
Urbanna	13.43	15.48
West Point	13.62	15.71
Residential flat rate (per day)		
King William	\$ 1.84	\$ 1.84
Mathews	1.79	1.79
Surry	1.79	1.79
Urbanna	1.79	2.06
West Point	1.82	2.09
Minimum charge - metered accounts (per day)	\$ 0.30	\$ 1.34

FEES

	<u>FY-2021</u>	<u>FY-2020</u>
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 for permanent financings are generally forecast to have a maximum term of 30 years at an interest rate that is the 75th quartile value for each maturity over the last 30 years. Interim, or construction, financings' interest rates are based on a 30-year historical average.

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>

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

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 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).

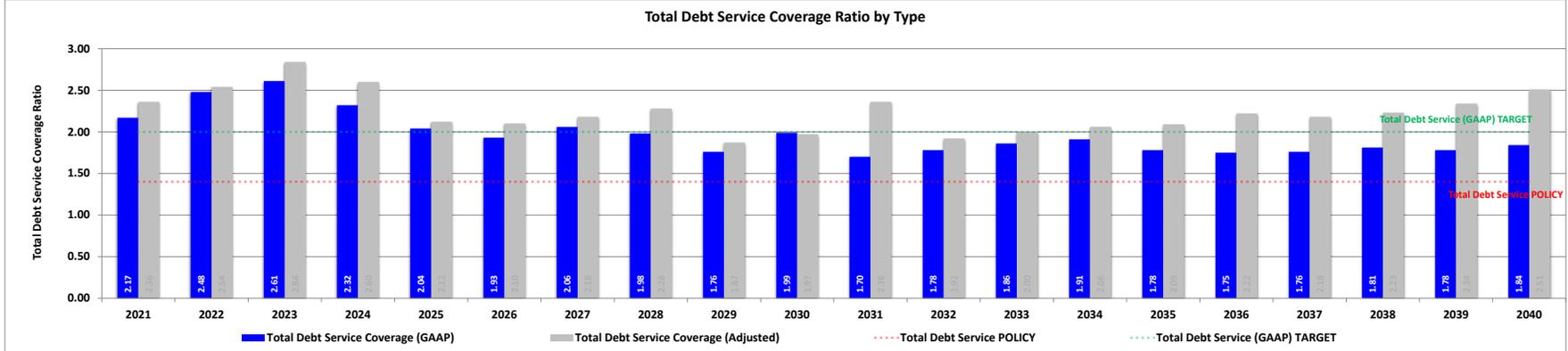
Trust Agreement: The formal agreement between bond holders, acting through a trustee, and HRSD.

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

The image features a complex, layered geometric design. It consists of several overlapping rectangular and trapezoidal shapes in shades of blue and green. The shapes are arranged in a way that creates a sense of depth and movement, with some elements appearing to be in front of others. A prominent horizontal blue banner with a slight 3D effect is positioned across the middle of the composition. The overall aesthetic is clean, modern, and professional, typical of a corporate or financial presentation.

Financial Forecast

Financial Forecast (in thousands)		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Operating Budget Forecast																					
	<i>Projected Annual Water Consumption Decline</i>		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%	1.0%	1.0%
	<i>Projected Wastewater Rate Increase</i>	0.0%	9.0%	9.0%	9.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	6.0%	6.0%	6.0%	6.0%	5.0%	5.0%	5.0%
Revenues																					
Operating Revenues		\$ 321,175	\$ 345,516	\$ 371,898	\$ 400,253	\$ 422,989	\$ 447,219	\$ 472,889	\$ 499,950	\$ 528,833	\$ 559,476	\$ 591,815	\$ 625,792	\$ 661,808	\$ 693,835	\$ 727,425	\$ 762,522	\$ 799,513	\$ 830,407	\$ 862,784	\$ 896,157
Non-operating Revenues		11,222	11,427	12,323	13,215	14,101	14,017	14,500	14,410	14,617	14,520	14,419	15,698	16,161	16,191	16,633	17,238	18,029	18,083	18,321	18,988
Total Revenues		332,397	356,943	384,221	413,468	437,090	461,236	487,389	514,360	543,450	573,996	606,235	641,490	677,969	710,026	744,059	779,760	817,542	848,490	881,105	915,145
Expenses																					
Salaries		60,953	62,946	65,004	67,130	69,325	72,052	74,393	77,272	79,768	82,347	85,945	88,461	91,423	94,093	96,842	99,674	102,591	105,595	108,689	111,877
Benefits		24,931	25,983	27,069	28,203	29,387	30,623	31,912	33,259	34,665	36,133	37,619	39,170	40,790	42,481	44,247	46,092	48,019	50,032	52,135	54,332
Materials & Supplies		9,068	9,522	9,999	10,500	11,026	11,586	12,161	12,751	13,356	13,976	14,611	15,261	15,926	16,606	17,300	18,009	18,733	19,471	20,224	21,001
Transportation		1,578	1,622	1,667	1,714	1,762	1,811	1,861	1,913	1,967	2,021	2,078	2,140	2,204	2,271	2,339	2,409	2,481	2,556	2,632	2,711
Utilities		12,954	8,512	8,747	8,988	9,236	9,490	9,750	10,015	10,286	10,562	10,843	11,129	11,420	11,716	12,017	12,323	12,634	12,950	13,271	13,598
Chemical Purchases		10,289	10,540	10,797	11,061	11,330	11,604	11,889	12,178	12,471	12,768	13,069	13,374	13,683	13,996	14,313	14,634	14,959	15,288	15,621	15,958
Contractual Services		37,696	39,581	41,560	43,638	45,820	48,106	50,497	52,994	55,597	58,306	61,121	64,043	67,074	70,214	73,463	76,821	80,289	83,867	87,456	91,056
Miscellaneous Expenses		7,631	7,860	8,096	8,339	8,589	8,847	9,112	9,386	9,667	9,957	10,256	10,564	10,881	11,207	11,543	11,890	12,246	12,612	12,988	13,374
Major Repairs and Replacements		10,076	10,378	10,690	11,010	11,341	11,681	12,031	12,392	12,764	13,147	13,541	13,947	14,366	14,797	15,241	15,698	16,169	16,654	17,154	17,668
Capital Acquisitions		600	618	637	656	675	696	716	738	760	783	806	831	855	881	908	935	963	992	1,021	1,052
Total Operating Appropriations from Budget		175,776	177,562	184,266	191,239	198,492	218,269	221,589	241,348	250,644	260,318	269,453	284,554	294,039	303,266	312,266	321,039	329,598	337,944	346,077	353,997
Debt Service		61,408	64,861	66,367	68,151	70,104	72,228	74,523	77,000	79,669	82,532	85,591	88,848	92,305	95,962	99,819	103,876	108,133	112,591	117,250	122,110
Transfer to Capital Improvement Plan (PAYGO)		94,953	114,078	133,355	138,834	133,903	114,607	141,935	138,362	135,494	158,652	62,625	123,448	145,895	151,138	154,848	172,484	209,253	217,733	217,389	247,816
Transfer to General Reserve (Unrestricted Cash)		-	-	-	-	22,776	-	11,985	-	-	-	55,344	22,874	5,709	22,393	29,051	36,690	7,383	14,959	32,321	28,182
Transfer to Risk Management Reserve		260	442	232	244	257	270	284	298	313	330	347	365	384	403	424	446	470	494	519	546
Total Appropriations for Debt Service and Transfers		156,621	179,381	199,955	222,229	238,598	242,967	265,800	273,012	292,806	313,677	276,772	300,936	316,930	336,759	358,134	380,730	404,944	421,843	439,911	458,889
Total Appropriations		\$ 332,397	\$ 356,943	\$ 384,221	\$ 413,468	\$ 437,090	\$ 461,236	\$ 487,389	\$ 514,360	\$ 543,450	\$ 573,996	\$ 606,235	\$ 641,490	\$ 677,969	\$ 710,026	\$ 744,059	\$ 779,760	\$ 817,542	\$ 848,490	\$ 881,105	\$ 915,145
Capital Improvement Budget Forecast																					
Beginning Capital Reserves		\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sources of Funds																					
Debt funded (Revenue Bonds and Interim Financing)		27,678	94,997	212,371	319,564	202,177	141,879	203,560	155,138	63,006	40,838	137,375	76,552	54,105	73,862	130,152	162,516	140,747	132,267	92,611	72,184
Virginia Clean Water Revolving Loan Fund		96,433	3,967	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HRSO - Cash		94,953	114,078	133,355	138,834	133,903	114,607	141,935	138,362	135,494	158,652	62,625	123,448	145,895	151,138	154,848	172,484	209,253	217,733	217,389	247,816
Reimbursements		5,936	1,958	9,274	6,602	3,920	3,514	4,505	1,500	1,500	510	-	-	-	-	-	-	-	-	-	-
Total Capital Resources		235,000	215,000	355,000	465,000	340,000	260,000	350,000	295,000	200,000	200,000	200,000	200,000	200,000	225,000	285,000	335,000	350,000	350,000	310,000	320,000
Uses of Funds - Capital Expenditures		235,000	215,000	355,000	465,000	340,000	260,000	350,000	295,000	200,000	200,000	200,000	200,000	200,000	225,000	285,000	335,000	350,000	350,000	310,000	320,000
Ending Capital Resources		\$ -																			
Reserves Balance Forecast																					
Days Cash on Hand		355 days	355 days	332 days	317 days	310 days	303 days	334 days	303 days	307 days	309 days	303 days									
Unrestricted Cash		\$ 187,567	\$ 187,567	\$ 187,567	\$ 187,567	\$ 187,567	\$ 210,343	\$ 210,343	\$ 222,328	\$ 222,328	\$ 222,328	\$ 277,672	\$ 300,546	\$ 306,255	\$ 328,648	\$ 357,699	\$ 394,389	\$ 401,772	\$ 416,731	\$ 449,052	\$ 477,234
Risk Reserve		4,020	4,462	4,694	4,938	5,195	5,465	5,748	6,046	6,360	6,689	7,036	7,401	7,784	8,188	8,612	9,059	9,528	10,022	10,541	11,088
Total Reserves Balance		\$ 191,587	\$ 192,029	\$ 192,261	\$ 192,505	\$ 192,762	\$ 215,807	\$ 216,091	\$ 228,374	\$ 228,688	\$ 229,017	\$ 284,708	\$ 307,947	\$ 314,039	\$ 336,836	\$ 366,311	\$ 403,447	\$ 411,300	\$ 426,753	\$ 459,593	\$ 488,322
Financial Ratios Forecast																					
Total Debt Service Coverage (GAAP)		2.17	2.48	2.61	2.32	2.04	1.93	2.06	1.98	1.76	1.99	1.70	1.78	1.86	1.91	1.78	1.75	1.76	1.81	1.78	1.84
Total Debt Service Coverage (Adjusted)		2.36	2.54	2.84	2.60	2.12	2.10	2.18	2.28	1.87	1.97	2.36	1.92	2.00	2.06	2.09	2.22	2.18	2.23	2.34	2.51
CIP % Cash Funded (current year contributions)		40%	53%	38%	30%	39%	44%	41%	47%	68%	79%	31%	62%	73%	67%	54%	51%	60%	62%	70%	77%
Debt Service as a % of Total Revenues		19%	18%	18%	21%	24%	23%	25%	24%	29%	27%	26%	24%	24%	23%	23%	22%	23%	22%	22%	20%



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The image features a complex abstract design with overlapping geometric shapes. The top half consists of several blue trapezoidal shapes of varying heights and widths, creating a sense of depth and movement. Below these, a solid blue horizontal banner spans across the middle, containing the text 'Operating Budget' in white. The bottom half of the image is dominated by large, vertical green rectangular blocks, some of which are partially obscured by the blue banner and other shapes, suggesting a layered or 3D effect. The overall color palette is primarily blue and green, with white text and a white background.

Operating Budget

Operating Budget

	FY-2021	Adopted FY-2020	Increase/ (Decrease)	Percent Change
Operating Revenues				
Wastewater Treatment Charges	\$ 320,035,000	\$ 323,395,000	\$ (3,360,000)	(1%)
Miscellaneous	1,140,000	1,255,000	(115,000)	(9%)
Total Operating Revenue	321,175,000	324,650,000	(3,475,000)	(1%)
Non-Operating Revenues				
Wastewater Facility Charges	6,160,000	6,160,000	-	0%
Investment Earnings	1,510,000	4,000,000	(2,490,000)	(62%)
Build America Bond Subsidy	2,292,000	2,400,000	(108,000)	(5%)
Other	1,260,000	595,000	665,000	112%
Total Non-Operating Revenues	11,222,000	13,155,000	(1,933,000)	(15%)
Total Revenues	\$ 332,397,000	\$ 337,805,000	\$ (5,408,000)	(2%)
Operating Appropriations				
General Management	\$ 466,020	\$ 460,252	\$ 5,768	1%
Communications	472,519	444,116	28,403	6%
Finance	15,061,142	14,566,681	494,461	3%
Information Technology	16,719,711	15,854,415	865,296	5%
Talent Management	2,574,769	2,515,281	59,488	2%
Operations	110,546,153	103,821,085	6,725,068	6%
Engineering	6,521,954	7,689,862	(1,167,908)	(15%)
Water Quality	15,676,912	14,778,034	898,878	6%
General Expenses	7,736,886	5,529,093	2,207,793	40%
Total Operating Appropriations	175,776,066	165,658,819	10,117,247	6%
Appropriations for Debt Service and Transfers				
Debt Service	61,407,822	63,544,841	(2,137,019)	(3%)
Transfer to Capital Improvement Program (CIP)	94,953,112	108,341,340	(13,388,228)	(12%)
Transfer to Risk Management Reserve	260,000	260,000	-	0%
Total Appropriations for Debt Service and Transfers	156,620,934	172,146,181	(15,525,247)	(9%)
Total Appropriations	\$ 332,397,000	\$ 337,805,000	\$ (5,408,000)	(2%)

Operating Budget Summary

	General		Finance	Information		Talent		Engineering	Water	General
	Management	Communications		Technology	Management	Operations	Quality		Expenses	
Personal Services	\$ 335,927	\$ 304,517	\$ 6,160,559	\$ 4,828,740	\$ 1,577,738	\$ 35,856,970	\$ 4,063,953	\$ 8,324,104	\$ (500,005)	
Fringe Benefits	83,593	\$ 96,002	2,651,686	1,621,071	631,674	15,788,890	1,497,746	3,346,602	(786,499)	
Materials & Supplies	10,000	\$ 45,000	72,213	994,250	58,500	6,301,473	42,320	1,518,100	26,000	
Transportation	7,000	\$ 9,000	7,850	23,700	28,500	1,439,620	26,635	35,706	-	
Utilities	-	\$ -	279,000	1,340,000	-	10,852,607	-	2,700	480,000	
Chemical Purchases	-	\$ -	-	-	-	10,288,858	-	-	-	
Contractual Services	9,000	\$ 2,000	5,633,530	6,333,050	41,000	19,632,815	707,681	1,726,700	7,700,390	
Major Repairs	-	\$ -	-	1,250,000	-	8,738,360	-	87,600	-	
Capital Assets	-	\$ -	-	-	-	600,000	-	-	-	
Miscellaneous Expense	20,500	\$ 16,000	256,304	328,900	237,357	1,046,560	183,619	635,400	817,000	
Operating Appropriations	\$ 466,020	\$ 472,519	\$ 15,061,142	\$ 16,719,711	\$ 2,574,769	\$ 110,546,153	\$ 6,521,954	\$ 15,676,912	\$ 7,736,886	

Full-time Positions:

Current	2	3	102	50	17	517	43	116
Changes	-	-	-	-	-	9	1	2
Budgeted	2	3	102	50	17	526	44	118

Operating Budget Summary

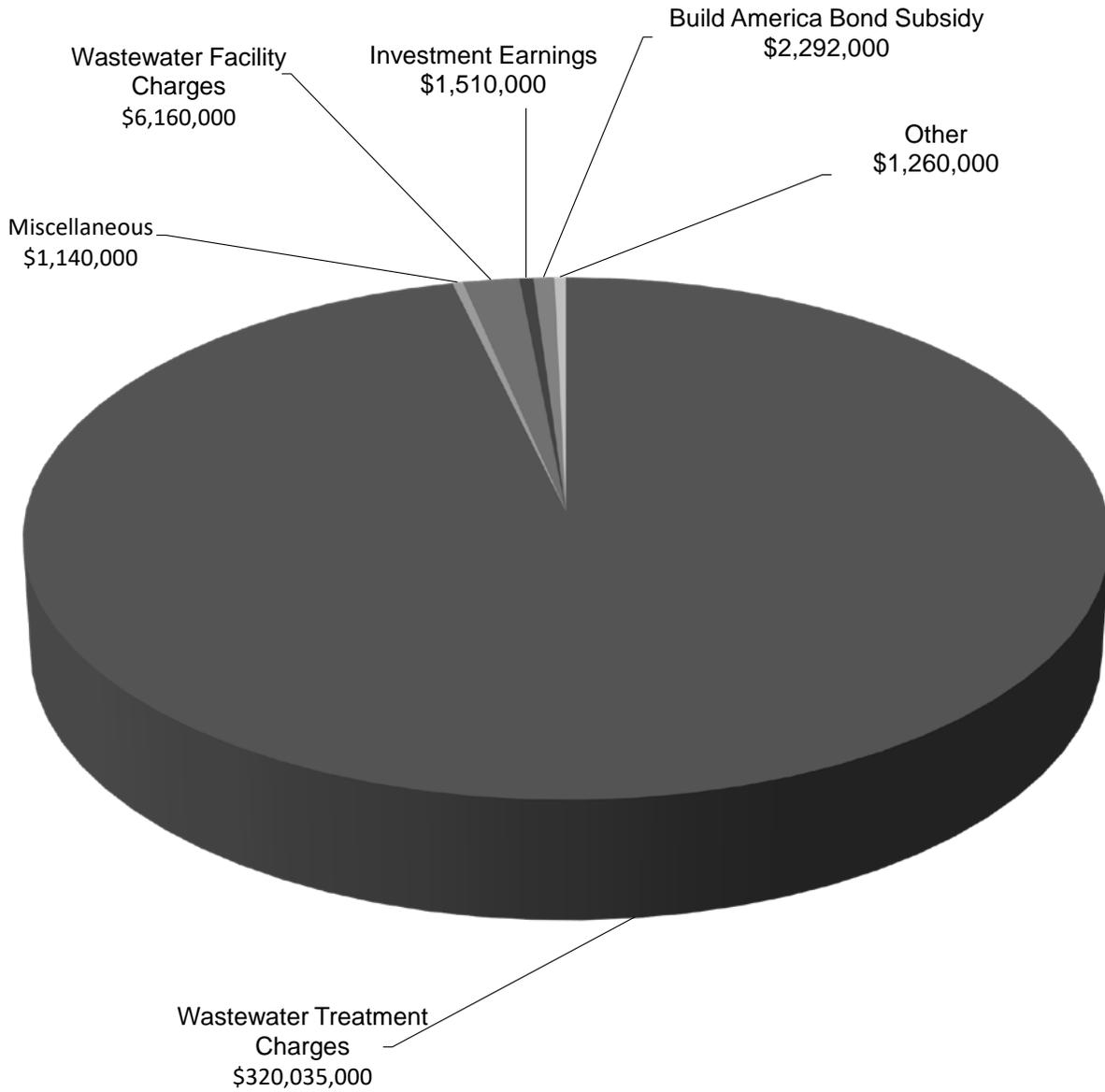
	FY-2021	Percent of Budget	FY-2020 Budget	Increase/ Decrease	Percent Inc/(Dec)
Personal Services	\$ 60,952,503	18.3%	\$ 57,346,225	\$ 3,606,278	6%
Fringe Benefits	\$ 24,930,765	7.5%	24,216,573	714,192	3%
Materials & Supplies	\$ 9,067,856	2.7%	8,128,521	939,335	12%
Transportation	\$ 1,578,011	0.5%	1,578,806	(795)	(0%)
Utilities	\$ 12,954,307	3.9%	12,725,560	228,747	2%
Chemical Purchases	\$ 10,288,858	3.1%	10,714,718	(425,860)	(4%)
Contractual Services	\$ 41,786,166	12.6%	38,678,527	3,107,639	8%
Major Repairs	\$ 10,075,960	3.0%	9,001,479	1,074,481	12%
Capital Assets	\$ 600,000	0.2%	301,600	298,400	99%
Miscellaneous Expense	\$ 3,541,640	1.1%	2,966,810	574,830	19%
Operating Appropriations	<u>\$ 175,776,066</u>	52.9%	<u>165,658,819</u>	<u>10,117,247</u>	6%
Debt Service Costs	\$ 61,407,822	18.5%	63,544,841	(2,137,019)	(3%)
Transfer to Capital Improvement Program (CIP)	\$ 94,953,112	28.6%	108,341,340	(13,388,228)	(12%)
Transfer to Risk Management	\$ 260,000	0.1%	260,000	0	0%
Appropriations for Debt Service and Transfers	<u>\$ 156,620,934</u>	47.1%	<u>172,146,181</u>	<u>(15,525,247)</u>	(9%)
	<u>\$ 332,397,000</u>	100.0%	<u>\$ 337,805,000</u>	<u>(5,408,000)</u>	(2%)

Full-time Positions:

Current	850
Changes	12
Budgeted	862

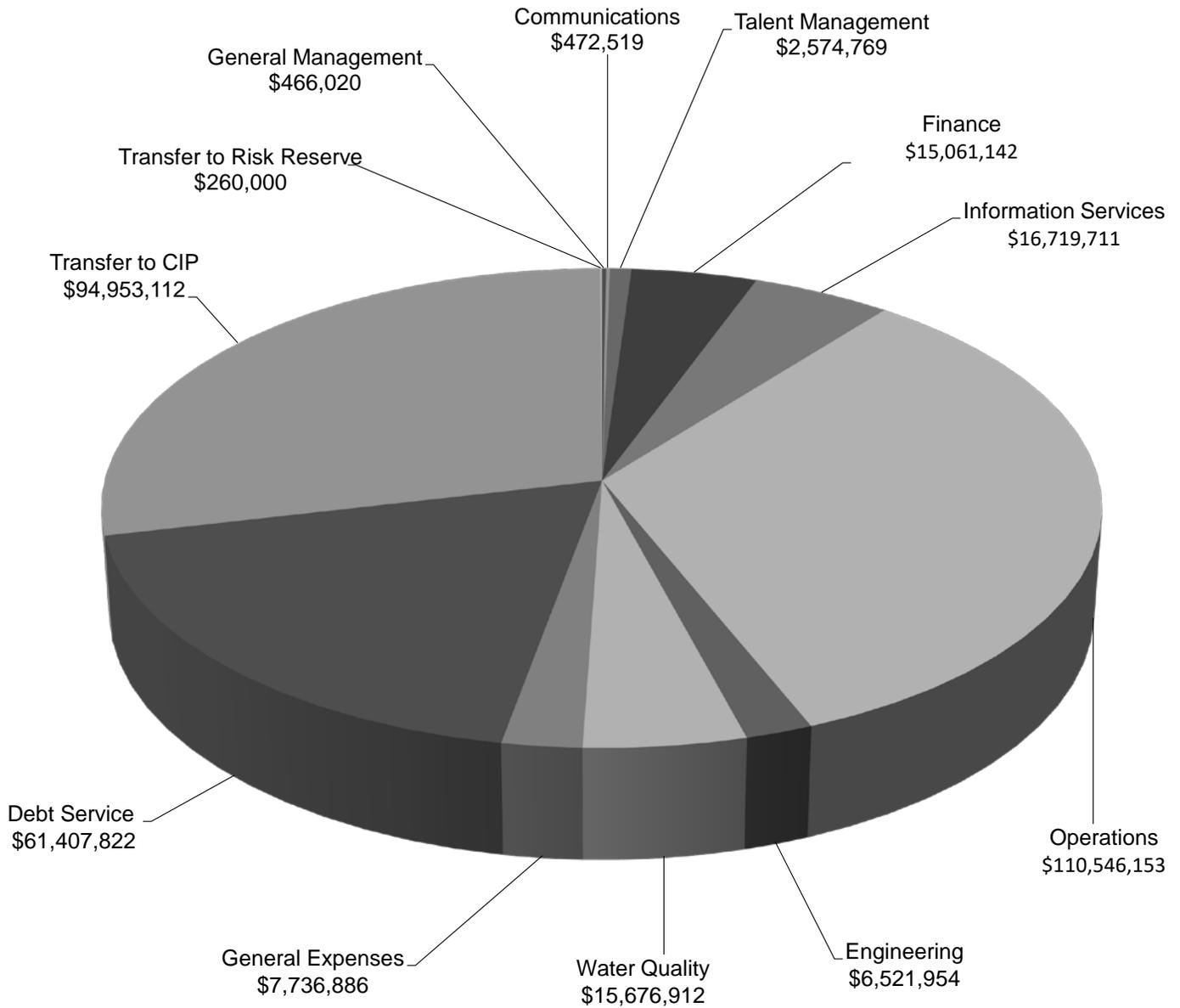
Operating Budget Charts

Revenues and Transfers In \$332,397,000



Operating Budget Charts

Expenses and Transfers Out \$332,397,000



General Management Department

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-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 335,927	\$ 332,938	\$ 2,989	1%
Fringe Benefits	83,593	80,814	2,779	3%
Material & Supplies	10,000	10,000	-	0%
Transportation	7,000	7,000	-	0%
Contractual Services	9,000	9,000	-	0%
Miscellaneous	20,500	20,500	-	0%
Total	\$ 466,020	\$ 460,252	\$ 5,768	1%

Positions

	Grade	Adopted FY-2020	Adjustments	Final FY-2020	Adjustments	FY-2021
General Manager		1		1		1
Commission Secretary	6	1		1		1
Total		2	0	2	0	2

Communications Department

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

Expenditure Budget

	FY-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 304,517	\$ 237,112	\$ 67,405	28%
Fringe Benefits	96,002	88,004	7,998	9%
Material & Supplies	45,000	45,000	-	0%
Transportation	9,000	11,500	(2,500)	(22%)
Contractual Services	2,000	33,000	(31,000)	(94%)
Miscellaneous	16,000	29,500	(13,500)	(46%)
Total	\$ 472,519	\$ 444,116	\$ 28,403	6%

Positions

	Grade	Adopted FY-2020	Adjustments	Final FY-2020	Adjustments	FY-2021
Director of Communications	12	1		1		1
Public Information Specialist	6	1		1		1
Community Education and Outreach Specialist	6	1		1		1
Total		3	0	3	0	3

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 and Finance Division handles fiscal affairs such as preparing statements, budgets, management reports and payroll. The Business Intelligence Division is the functional lead for the Enterprise Resource Process system. The Capital Program Management Division coordinates the development of the annual Capital Improvement Program. 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-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 6,160,559	\$ 6,066,008	\$ 94,551	2%
Fringe Benefits	2,651,686	2,630,381	21,305	1%
Material & Supplies	72,213	70,780	1,433	2%
Transportation	7,850	11,850	(4,000)	(34%)
Utilities	279,000	282,000	(3,000)	(1%)
Contractual Services	5,633,530	5,236,464	397,066	8%
Miscellaneous	256,304	269,198	(12,894)	(5%)
Total	\$ 15,061,142	\$ 14,566,681	\$ 494,461	3%

Positions

	Grade	Adopted		Final		
		FY-2020	Adjustments	FY-2020	Adjustments	FY-2021
Director of Finance	12	1		1		1
Chief of Accounting & Finance	11	1		1		1
Chief of Customer Care Center	11	1		1		1
Chief of Procurement	11	1		1		1
Accounting Manager	9	3		3		3
Capital Program Manager	9	1		1		1
Customer Technology Manager	9	0	2	2		2
Customer Care Manager	9	4	(2)	2		2
Business Analyst	8	3		3		3
Financial Analyst	8	2		2		2
Procurement Analyst	8	2		2		2
Capital Program Analyst	7	0	1	1		1
Customer Care Supervisor	7	4		4		4
Delinquency Management Analyst	7	1		1		1
Accounts Payable Supervisor	6	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	4		4		4
Accounting Coordinator	4	1		1		1
Accounts Receivable Technician	4	3		3		3
CIP Coordinator	4	1	(1)	0		0
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		11		11
Accounts Payable Associate	3	3		3		3
Customer Care Account Representative	3	40		40		40
Procurement Administrative Assistant	3	2		2		2
Mail Processing Clerk	2	2		2		2
Total		102	0	102	0	102

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 Enterprise Data Services Division is responsible for application integration and support, data management, and systems analysis and support. The Information Systems and Security Division is responsible for ensuring the safety, integrity, and availability of all HRSD information systems and business data. 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-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 4,828,740	\$ 4,428,545	\$ 400,195	9%
Fringe Benefits	1,621,071	1,554,295	66,776	4%
Material & Supplies	994,250	1,250,050	(255,800)	(20%)
Transportation	23,700	22,200	1,500	7%
Utilities	1,340,000	1,180,500	159,500	14%
Contractual Services	6,333,050	6,502,100	(169,050)	(3%)
Major Repairs	1,250,000	651,000	599,000	92%
Miscellaneous	328,900	265,725	63,175	24%
Total	\$ 16,719,711	\$ 15,854,415	\$ 865,296	5%

Positions

	Grade	Adopted FY-2020	Adjustments	Final FY-2020	Adjustments	FY-2021
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	1		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
Senior Programmer Analyst	8	8		8		8
Senior Systems Analyst	8	3		3		3
SharePoint Web Developer	8	1		1		1
Linux Systems Administrator	8	2		2		2
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
IT Administrative Coordinator	4	1		1		1
Telecommunications Support Coordinator	4	1		1		1
Computer Operator	3	3		3		3
Total		50	0	50	0	50

Talent Management Department

The Talent Management Department attracts new talent, develops talent and retains existing talent. The Human Resources Division maintains employee records, handles employee recruiting and orientation, administers employee benefits. The Organizational Development and Training (ODT) Division oversees training and the apprenticeship program. The Safety Division monitors risk and works to ensure employee safety.

Expenditure Budget

	FY-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 1,577,738	\$ 1,531,227	\$ 46,511	3%
Fringe Benefits	631,674	615,845	15,829	3%
Material & Supplies	58,500	58,500	-	0%
Transportation	28,500	28,100	400	1%
Contractual Services	41,000	48,000	(7,000)	(15%)
Miscellaneous	237,357	233,609	3,748	2%
Total	\$ 2,574,769	\$ 2,515,281	\$ 59,488	2%

Positions

	Grade	Adopted FY-2020	Adjustments	Final FY-2020	Adjustments	FY-2021
Director of Talent Management	12	1		1		1
ODT Manager	10	1		1		1
Human Resources Manager	9	1		1		1
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
Administrative Coordinator Quality	4	0		0		0
Safety Technician	5	1	1	2		2
Human Resources Coordinator	4	2		2		2
ODT Coordinator	4	1		1		1
Total		16	1	17	0	17

Operations Department

The Operations Department is responsible for operating and maintaining all of HRSD's treatment plants, pump stations, pipelines, buildings and equipment. HRSD provides wastewater treatment services for over 1.8 million people in 18 cities and counties in Hampton Roads. The department also includes the Director of Water Technology and Research researching new technology with a focus on rapid deployment of innovative solutions. Services are delivered through seven divisions. There are three major treatment plant divisions (each with three treatment plants). Services to small communities that are in the HRSD service area are provided by the Small Communities Division (SCD) – Middle Peninsula which operates four smaller treatment plants and all the associated sewer collection systems for four counties on the Middle Peninsula, including the Town of West Point. The Small Communities Division – Surry includes the operation of two treatment plants and the associated sewer collection systems in the County of Surry. 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 for the HRSD fleet, all buildings, operates two carpentry shops and a full service machine shop. 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-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 35,856,970	\$ 34,501,596	\$ 1,355,374	4%
Fringe Benefits	15,788,890	15,418,203	370,687	2%
Material & Supplies	6,301,473	5,256,561	1,044,912	20%
Transportation	1,439,620	1,447,280	(7,660)	(1%)
Utilities	10,852,607	10,755,360	97,247	1%
Chemical Purchases	10,288,858	10,714,718	(425,860)	(4%)
Contractual Services	19,632,815	15,996,648	3,636,167	23%
Major Repairs	8,738,360	8,330,479	407,881	5%
Capital Assets	600,000	301,600	298,400	99%
Miscellaneous	1,046,560	1,098,640	(52,080)	(5%)
Total	\$ 110,546,153	\$ 103,821,085	\$ 6,725,068	6%

Positions

	Grade	Adopted FY-2020	Adjustments	Final FY-2020	Adjustments	FY-2021
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	11	1		1		1
Chief of NS Interceptors & SCD	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	3	2	5		5
Electrical Manager	9	1		1		1
Industrial Automation Manager	9	1		1		1
Instrumentation Manager	9	1		1		1
Interceptor Engineer	9	2		2		2
Plant Manager	9	1		1		1
Project Manager	9	2		2		2
Support Systems Manager	9	1		1		1
SWIFT Project Manager	9	1		1		1
Systems Manager	9	2		2		2
Treatment Process Engineer-1	9	1	(1)	0		0
Automotive Superintendent	8	1		1		1
Coating, Concrete and Roofing Chief Inspector	8	1		1		1
Condition Assessment Superintendent	8	1		1		1
Electrical & Instrumentation Supervisor	8	4	(4)	0		0
Electrical & Instrumentation Superintendent	8	1	4	5		5
Facility Superintendent	8	1		1		1
Industrial Automation Programmer	8	5	1	6		6
Interceptor Superintendent	8	2		2		2
Plant Superintendent	8	18		18		18

Operations Department Positions (continued)

	Grade	Adopted		Final		FY-2021
		FY-2020	Adjustments	FY-2020	Adjustments	
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	61	(1)	60	4	64
Lead Operator	7	32		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
Engineering Assistant	6	4	(4)	0		0
Interceptor Foreman	6	7		7		7
Interceptor Inspector	6	0	4	4		4
Interceptor Systems Supervisor	6	2		2		2
Machinist Foreman	6	1		1		1
Maintenance Planner	6	3		3	4	7
Pump Station Supervisor	6	2		2		2
Automotive Technician	5	5		5		5
Carpenter	5	4		4		4
Equipment Technician	5	3		3		3
Facility Maintenance Technician	5	2		2		2
Interceptor Technician	5	30		30		30
Machinist	5	2		2		2
Maintenance Operator	5	68	1	69		69
Plant Operator	5	76	2	78		78
Automotive Coordinator	4	0	1	1		1
Heavy Equipment Operator 1	4	19		19		19
Materials Operations Coordinator	4	2		2		2
Operations Admin Coordinator	4	1		1		1
Operations Coordinator	4	2		2		2
Automotive Administrative Assistant	3	1	(1)	0		0
Utility Administrative Assistant	3	1		1		1
SCADA Administrative Assistant	3	1		1		1
Interceptor Assistant	2	28		28		28
Maintenance Operations Assistant	2	48	(2)	46		46
Plant Clerk	2	9		9		9
Facility Assistant	1	2	(1)	1		1
Custodian	1	4		4		4
Subtotal - Operations		493	1	494	9	503
Small Communities						
Systems Manager	9	1		1		1
Systems Superintendent	8	1		1		1
Systems Chief Foreman	7	1		1		1
Systems Lead Operator	7	3		3		3
Systems Foreman	6	1		1		1
Systems Operator	5	10		10		10
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		23	0	23	0	23
Total		516	1	517	9	526

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) to manage asset information to inform all maintenance, replacement and capital planning decisions. The Design and Construction Divisions deliver capital projects in a manner consistent with HRSD's quality standards. The Planning and Analysis Division manages the Capital Improvement Program (CIP), 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-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 4,063,953	\$ 3,983,260	\$ 80,693	2%
Fringe Benefits	1,497,746	1,479,398	18,348	1%
Material & Supplies	42,320	24,130	18,190	75%
Transportation	26,635	20,470	6,165	30%
Contractual Services	707,681	2,078,816	(1,371,135)	(66%)
Miscellaneous	183,619	183,788	(169)	(0%)
Total	\$ 6,521,954	\$ 7,769,862	\$ (1,247,908)	(16%)

Positions

	Grade	Adopted FY-2020	Adjustments	Final FY-2020	Adjustments	FY-2021
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 - 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
GIS Manager	9	1		1		1
Hydraulic Analysis Manager	9	4		4		4
Project Manager	9	9		9	1	10
Asset Management Specialist	8	1	(1)	0		0
Real Estate Manager	8	2		2		2
CMMS Analyst	7	2		2		2
Data Analyst	7	5		5		5
GIS Analyst	7	2		2		2
Planning Engineer	7	2		2		2
Contract Specialist	6	3		3		3
GIS CAD Technician	5	2		2		2
Administrative Coordinator	4	1		1		1
Engineering Clerk	2	1		1		1
Total		44	(1)	43	1	44

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-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	\$ 8,324,104	\$ 7,815,545	\$ 508,559	7%
Fringe Benefits	3,346,602	3,199,333	147,269	5%
Material & Supplies	1,518,100	1,315,500	202,600	15%
Transportation	35,706	30,406	5,300	17%
Utilities	2,700	2,700	-	0%
Contractual Services	1,726,700	1,696,700	30,000	2%
Major Repairs	87,600	20,000	67,600	338%
Miscellaneous	635,400	617,850	17,550	3%
Total	\$ 15,676,912	\$ 14,698,034	\$ 978,878	7%

Positions

	Grade	Adopted FY-2020	Adjustments	Final FY-2020	Adjustments	FY-2021
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	0		0	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	0	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	12	1	13		13
P3 Supervising Specialist	8	3		3		3
TSD Operations Manager	8	1		1		1
TSD Supervising Specialist	8	3		3		3
P3 Administrative Supervising Specialist	7	1		1		1
P3 PIMS Analyst	7	1		1		1
TSD Specialist	7	11	1	12		12
Lab EDMS Analyst	6	1		1		1
Lab Quality Assurance Specialist	6	1		1		1
Lab Specialist	6	14		14		14
P3 Specialist	6	3	1	4		4
WQ Specialist	6	1	(1)	0		0
Lab Data Technician	5	1		1		1
Lab Technician	5	5		5		5
P3 Administrative Technician	5	0	1	1		1
P3 Technician	5	11	(1)	10		10
TSD Technician	5	0	8	8		8
CEL Operations Coordinator	4	0		0	1	1
Lab Data Coordinator	4	1		1		1
P3 Administrative Coordinator	4	1	(1)	0		0
TSD Operations Coordinator	4	1		1		1
WQ Administrative Coordinator	4	1		1		1
P3 Administrative Assistant	3	2		2		2
TSD Investigator	3	8	(8)	0		0
Lab Assistant	2	7		7		7
TSD Assistant	2	1		1		1
Total		114	2	116	2	118

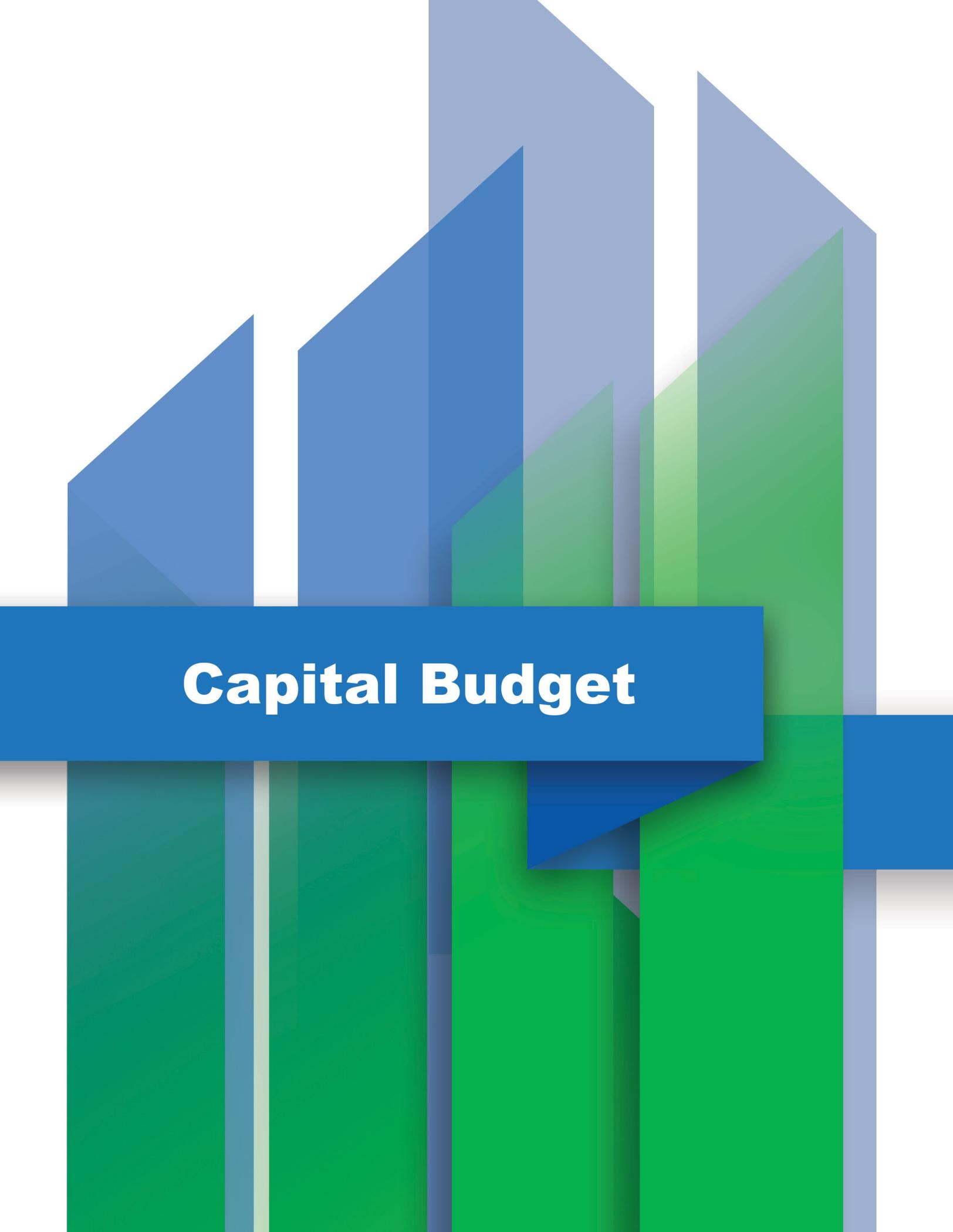
General Expenses, Debt Service and Transfers

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-2021 Budget	FY-2020 Budget	Increase/ (Decrease)	Percentage Change
Personal Services	(500,005)	(1,550,006)	1,050,001	(68%)
Fringe Benefits	(786,499)	(849,700)	63,201	(7%)
Material & Supplies	26,000	18,000	8,000	44%
Utilities	480,000	505,000	(25,000)	(5%)
Contractual Services	7,700,390	7,157,799	542,591	8%
Miscellaneous	817,000	248,000	569,000	229%
Total General Expenses	\$ 7,736,886	\$ 5,529,093	\$ 2,207,793	40%
Publically Sold Bonds - Principal	\$ 21,545,000	\$ 17,985,000	\$ 3,560,000	20%
Publically Sold Bonds - Interest	23,759,200	30,926,523	(7,167,323)	(23%)
VCWRLF Bonds	16,103,622	14,633,318	1,470,304	10%
<i>Subtotal - Debt Service</i>	<u>61,407,822</u>	<u>63,544,841</u>	<u>(2,137,019)</u>	<u>(3%)</u>
Transfer to CIP	94,953,112	108,341,340	(13,388,228)	(12%)
Transfer to General Reserve	-	-	-	0%
Transfer to Risk Management	260,000	260,000	-	0%
<i>Subtotal - Transfers</i>	<u>95,213,112</u>	<u>108,601,340</u>	<u>(13,388,228)</u>	<u>(12%)</u>
Total Debt Service and Transfers	\$ 156,620,934	\$ 172,146,181	\$ (15,525,247)	(9%)

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The image features a complex, layered geometric design. It consists of several overlapping rectangular and trapezoidal shapes in shades of blue and green. The shapes are arranged in a way that creates a sense of depth and movement, with some elements appearing to be in front of others. A prominent horizontal blue banner is positioned across the middle of the composition, containing the text 'Capital Budget' in white, bold, sans-serif font. The overall aesthetic is modern and professional, typical of a corporate or financial presentation.

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-2021 in the amount of \$235 million. The remaining years (FY-2022 to FY-2030) 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-2021 to FY-2030 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 \$2.92 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
- HRSD Revenue Bonds or Notes
- WIFIA (Water Infrastructure Finance and Innovation Act)

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-2021					
	to FY-2030	FY-2021	FY-2022	FY-2023	FY-2024	FY-2025
Beginning Capital Reserves	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -
Bonds	1,475,481	27,678	95,274	213,128	320,365	203,258
VCWRLF	100,400	96,433	3,967	-	-	-
Cash	1,289,900	94,953	113,801	132,598	138,033	132,822
Grants and Other Reimbursements	39,219	5,936	1,958	9,274	6,602	3,920
Total Capital Resources	2,915,000	235,000	215,000	355,000	465,000	340,000
Capital Expenditures	2,915,000	235,000	215,000	355,000	465,000	340,000
Ending Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Capital Expenditures (in thousands)	Total FY-2021					
	to FY-2030	FY-2021	FY-2022	FY-2023	FY-2024	FY-2025
Administration	\$ 27,211	\$ 13,011	\$ 4,540	\$ 3,460	\$ 3,100	\$ 3,100
Army Base	71,407	1,288	9,835	11,663	-	-
Atlantic	72,332	6,631	12,591	19,837	20,744	10,432
Boat Harbor	254,724	32,842	34,581	12,384	54,056	90,830
Chesapeake-Elizabeth	70,776	49,883	10,329	2,881	2,726	1,321
Eastern Shore	23,200	1,200	1,000	5,000	8,000	1,000
James River	184,876	16,564	19,483	62,746	65,431	20,652
Middle Peninsula	106,723	10,279	6,787	27,918	36,372	17,723
Nansemond	317,153	22,097	21,460	32,584	103,738	88,378
Surry	31,623	16,499	15,123	-	-	-
Virginia Initiative Plant	145,625	11,694	22,628	33,141	28,942	10,477
Williamsburg	15,063	12,622	1,602	839	-	-
York River	46,496	4,958	5,343	9,115	8,444	12,154
General	1,366,723	35,432	45,482	116,527	111,304	67,741
Future Improvements	59,473	-	-	-	-	-
Sub-Total	2,793,403	235,000	210,784	338,095	442,857	323,810
Contingency	121,597	-	4,216	16,905	22,143	16,190
Total Expenditures	\$ 2,915,000	\$ 235,000	\$ 215,000	\$ 355,000	\$ 465,000	\$ 340,000

Capital Budget

CIP Budget Forecast (in thousands)	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
Beginning Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	143,607	205,713	158,346	65,305	42,807
VCWRLF	-	-	-	-	-
Cash	112,879	139,782	135,154	133,195	156,683
Grants and Other Reimbursements	3,514	4,505	1,500	1,500	510
Total Capital Resources	260,000	350,000	295,000	200,000	200,000
Capital Expenditures	260,000	350,000	295,000	200,000	200,000
Ending Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -

Capital Expenditures (in thousands)	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
Administration	\$ -	\$ -	\$ -	\$ -	\$ -
Army Base	642	1,638	365	18,452	27,523
Atlantic	1,249	53	297	498	-
Boat Harbor	15,123	12,028	2,881	-	-
Chesapeake-Elizabeth	1,211	-	-	-	2,424
Eastern Shore	3,000	4,000	-	-	-
James River	-	-	-	-	-
Middle Peninsula	7,639	5	-	-	-
Nansemond	18,138	4,957	16,876	8,916	8
Surry	-	-	-	-	-
Virginia Initiative Plant	6,553	1,790	10,395	10,806	9,199
Williamsburg	-	-	-	-	-
York River	5,466	1,016	-	-	-
General	188,597	307,846	250,139	142,591	101,063
Future Improvements	-	-	-	9,214	50,259
Sub-Total	247,619	333,333	280,952	190,476	190,476
Contingency	12,381	16,667	14,048	9,524	9,524
Total Expenditures	\$ 260,000	\$ 350,000	\$ 295,000	\$ 200,000	\$ 200,000

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2021 to FY-2030	FY-2021	FY-2022	FY-2023	FY-2024	FY-2025
Administration							
AD012100	Asset Management Implementation	\$ 482	\$ 482	\$ -	\$ -	\$ -	\$ -
AD012200	Water Quality Services Building Phase II	\$ 9,154	\$ 9,154	\$ -	\$ -	\$ -	\$ -
AD012300	Central Environmental Laboratory Phase II	\$ 2,075	\$ 275	\$ 1,440	\$ 360	\$ -	\$ -
AD012500	Cybersecurity Practice & Procedure Initiative	\$ 15,500	\$ 3,100	\$ 3,100	\$ 3,100	\$ 3,100	\$ 3,100
Subtotal		\$ 27,211	\$ 13,011	\$ 4,540	\$ 3,460	\$ 3,100	\$ 3,100
Army Base							
AB010000	Army Base 24-Inch and 20-Inch Transmission Main Replacements	\$ 19,775	\$ 782	\$ 8,453	\$ 10,541	\$ -	\$ -
AB010500	Section W Force Main Replacement	\$ 2,112	\$ 81	\$ 908	\$ 1,122	\$ -	\$ -
AB011800	Army Base to VIP Transmission Force Main	\$ 48,620	\$ -	\$ -	\$ -	\$ -	\$ -
AB011900	Army Base Treatment Plant Administration Building Renovation (2021)	\$ 900	\$ 425	\$ 475	\$ -	\$ -	\$ -
Subtotal		\$ 71,407	\$ 1,288	\$ 9,835	\$ 11,663	\$ -	\$ -
Atlantic							
AT011520	Shippis Corner Pressure Reducing Station Modifications	\$ 1,476	\$ 109	\$ 683	\$ 683	\$ -	\$ -
AT011900	Great Bridge Interceptor Extension 16-Inch Replacement	\$ 4,524	\$ -	\$ 64	\$ 232	\$ 2,135	\$ 2,094
AT012910	Atlantic Treatment Plant FOG Receiving Station	\$ 301	\$ 301	\$ -	\$ -	\$ -	\$ -
AT012920	Atlantic Treatment Plant Access Road Extension	\$ 10,278	\$ 822	\$ 925	\$ 4,084	\$ 4,447	\$ -
AT013000	Washington District Pump Station Area Sanitary Sewer Improvements	\$ 3,587	\$ 425	\$ 3,163	\$ -	\$ -	\$ -
AT013100	South Norfolk Area Gravity Sewer Improvements	\$ 5,558	\$ 340	\$ 302	\$ 3,278	\$ 1,639	\$ -
AT013200	Doziers Corner Pump Station and Washington District Pump Station Flooding Mitigation Improvements	\$ 263	\$ -	\$ -	\$ 17	\$ 40	\$ 206
AT013500	Atlantic Treatment Plant Thermal Hydrolysis Process	\$ 2,599	\$ 2,599	\$ -	\$ -	\$ -	\$ -
AT013700	Atlantic Trunk Interceptor Force Main Relocation (VDOT Laskin Road Betterment)	\$ 93	\$ 93	\$ -	\$ -	\$ -	\$ -
AT014000	Lynnhaven-Great Neck IFM (SF-021) Relocation	\$ 810	\$ 810	\$ -	\$ -	\$ -	\$ -
AT014100	Suffolk Regional Landfill Transmission Force Main	\$ 12,900	\$ 133	\$ 2,994	\$ 6,545	\$ 3,227	\$ -
AT014301	Atlantic Service Area I-I Reduction Phase I (CHES)	\$ 10,970	\$ -	\$ -	\$ -	\$ 1,609	\$ 8,119
AT014302	Atlantic Service Area I-I Reduction Phase II (CHES)	\$ 9,334	\$ -	\$ 936	\$ 2,160	\$ 6,218	\$ 13
AT014303	Chesapeake Pump Station Capacity Improvements (AT-HPP-01C)	\$ 849	\$ -	\$ -	\$ -	\$ -	\$ -
AT014500	Atlantic Treatment Plant Influent Screens (1-3) Replacement	\$ 3,440	\$ 662	\$ 2,778	\$ -	\$ -	\$ -
AT014600	Kempsville Interceptor Force Main Replacement - Phase I	\$ 5,350	\$ 338	\$ 746	\$ 2,838	\$ 1,429	\$ -
Subtotal		\$ 72,332	\$ 6,631	\$ 12,591	\$ 19,837	\$ 20,744	\$ 10,432
Boat Harbor							
BH013020	Willard Avenue Pump Station Replacement	\$ 9,354	\$ 3,748	\$ 5,601	\$ 5	\$ -	\$ -
BH014000	Replacement	\$ 3,627	\$ 265	\$ 1,108	\$ 2,252	\$ 3	\$ -
BH014220	Hampton Trunk Sewer Extension Divisions I and J Relocation Phase II	\$ 14,492	\$ 6,300	\$ 7,548	\$ 644	\$ -	\$ -
BH014500	Ivy Home-Shell Road Sewer Extension Division I Replacement	\$ 2,014	\$ 16	\$ 585	\$ 1,414	\$ -	\$ -
BH014600	46th Street Diversion Sewer Rehabilitation Replacement	\$ 10,747	\$ 3,111	\$ 7,039	\$ 597	\$ -	\$ -
BH014700	Boat Harbor Outlet Sewer Improvements	\$ 3,483	\$ 3,483	\$ -	\$ -	\$ -	\$ -
BH014800	Jefferson Avenue Extension Gravity Improvements	\$ 441	\$ 441	\$ -	\$ -	\$ -	\$ -
BH014900	Hampton Trunk Sewer Extension Division K Gravity Improvements	\$ 4,326	\$ 748	\$ 3,573	\$ 5	\$ -	\$ -
BH015000	Orcutt Avenue and Mercury Blvd Gravity Sewer Improvements	\$ 4	\$ 4	\$ -	\$ -	\$ -	\$ -
BH015300	Boat Harbor Treatment Plant Switchgear and Controls Replacements	\$ 1,723	\$ 1,723	\$ -	\$ -	\$ -	\$ -
BH015500	LaSalle Avenue Interceptor Force Main Replacement	\$ 1,920	\$ -	\$ -	\$ -	\$ 83	\$ 1,144
BH015600	Hampton Trunk A and B Replacement-Jefferson Avenue to Walnut Avenue	\$ 15,121	\$ 10,667	\$ 4,454	\$ -	\$ -	\$ -
BH015700	Boat Harbor Treatment Plant Pump Station Conversion	\$ 62,111	\$ 926	\$ 2,241	\$ 556	\$ 18,760	\$ 38,778
BH015710	Boat Harbor Treatment Plant Transmission Force Main Section 1 (Subaqueous)	\$ 65,649	\$ 947	\$ 594	\$ 4,094	\$ 30,196	\$ 29,818
BH015720	Boat Harbor Treatment Plant Transmission Force Main Section 2 (Land)	\$ 16,412	\$ 282	\$ 1,060	\$ 150	\$ 3,656	\$ 11,264
BH015801	14th Street Offline Storage (BH-HPP-01A)	\$ 14,828	\$ -	\$ -	\$ 868	\$ 822	\$ 8,260
BH015802	Claremont Pump Station Upgrade (BH-HPP-01B)	\$ 10,938	\$ -	\$ -	\$ -	\$ 535	\$ 751
BH015803	Chesapeake Avenue Interceptor Improvements (BH-HPP-01C)	\$ 14,776	\$ -	\$ -	\$ -	\$ -	\$ 815
BH015900	Bloxoms Corner Force Main Replacement	\$ 2,760	\$ 182	\$ 778	\$ 1,800	\$ -	\$ -
Subtotal		\$ 254,724	\$ 32,842	\$ 34,581	\$ 12,384	\$ 54,056	\$ 90,830
Note:	VIP - Virginia Initiative Plant FOG - Fats, Oils, and Grease VDOT - Virginia Department of Transportation IFM - Interceptor Force Main CHES - City of Chesapeake BH - Boat Harbor Treatment Plant HPP - High Priority Project						

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
Administration						
AD012100	Asset Management Implementation	\$ -	\$ -	\$ -	\$ -	\$ -
AD012200	Water Quality Services Building Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
AD012300	Central Environmental Laboratory Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
AD012500	Cybersecurity Practice & Procedure Initiative	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ 642	\$ 1,638	\$ 365	\$ 18,452	\$ 27,523
AB011900	Army Base Treatment Plant Administration Building Renovation (2021)	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 642	\$ 1,638	\$ 365	\$ 18,452	\$ 27,523
Atlantic						
AT011520	Shipp's Corner Pressure Reducing Station Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
AT011900	Great Bridge Interceptor Extension 16-Inch Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT012910	Atlantic Treatment Plant FOG Receiving Station	\$ -	\$ -	\$ -	\$ -	\$ -
AT012920	Atlantic Treatment Plant Access Road Extension	\$ -	\$ -	\$ -	\$ -	\$ -
AT013000	Washington District Pump Station Area Sanitary Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT013100	South Norfolk Area Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT013200	Doziers Corner Pump Station and Washington District Pump Station Flooding Mitigation Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT013500	Atlantic Treatment Plant Thermal Hydrolysis Process	\$ -	\$ -	\$ -	\$ -	\$ -
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)	\$ 1,242	\$ -	\$ -	\$ -	\$ -
AT014302	Atlantic Service Area I-I Reduction Phase II (CHES)	\$ 7	\$ -	\$ -	\$ -	\$ -
AT014303	Chesapeake Pump Station Capacity Improvements (AT-HPP-01C)	\$ -	\$ 53	\$ 297	\$ 498	\$ -
AT014500	Atlantic Treatment Plant Influent Screens (1-3) Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT014600	Kempsville Interceptor Force Main Replacement - Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 1,249	\$ 53	\$ 297	\$ 498	\$ -
Boat Harbor						
BH013020	Willard Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014000	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	\$ -	\$ -	\$ -	\$ -	\$ -
BH014700	Boat Harbor Outlet Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
BH014800	Jefferson Avenue Extension Gravity Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
BH014900	Hampton Trunk Sewer Extension Division K Gravity Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
BH015000	Orcutt Avenue and Mercury Blvd Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
BH015300	Boat Harbor Treatment Plant Switchgear and Controls Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
BH015500	LaSalle Avenue Interceptor Force Main Replacement	\$ 692	\$ -	\$ -	\$ -	\$ -
BH015600	Hampton Trunk A and B Replacement-Jefferson Avenue to Walnut Avenue	\$ -	\$ -	\$ -	\$ -	\$ -
BH015700	Boat Harbor Treatment Plant Pump Station Conversion	\$ 850	\$ -	\$ -	\$ -	\$ -
BH015710	Boat Harbor Treatment Plant Transmission Force Main Section 1 (Subaqueous)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015720	Boat Harbor Treatment Plant Transmission Force Main Section 2 (Land)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015801	14th Street Offline Storage (BH-HPP-01A)	\$ 4,878	\$ -	\$ -	\$ -	\$ -
BH015802	Claremont Pump Station Upgrade (BH-HPP-01B)	\$ 6,265	\$ 3,387	\$ -	\$ -	\$ -
BH015803	Chesapeake Avenue Interceptor Improvements (BH-HPP-01C)	\$ 2,438	\$ 8,642	\$ 2,881	\$ -	\$ -
BH015900	Bloxoms Corner Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 15,123	\$ 12,028	\$ 2,881	\$ -	\$ -
Note:	VIP - Virginia Initiative Plant FOG - Fats, Oils, and Grease VDOT - Virginia Department of Transportation IFM - Interceptor Force Main CHES - City of Chesapeake BH - Boat Harbor Treatment Plant HPP - High Priority Project					

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2021 to FY-2030	FY-2021	FY-2022	FY-2023	FY-2024	FY-2025
Chesapeake-Elizabeth							
CE010400	Independence Boulevard Pressure Reducing Station Modifications	\$ 523	\$ 523	\$ -	\$ -	\$ -	\$ -
CE010520	Newtown Road Interceptor Force Main Relocation	\$ 3,711	\$ 2,972	\$ 738	\$ -	\$ -	\$ -
CE011300	Birchwood Trunk 24-Inch 30-Inch Force Main at Independence Boulevard Replacement Phase II	\$ 1,062	\$ -	\$ 69	\$ 993	\$ -	\$ -
CE011600	Poplar Hall Davis Corner Trunk 24-Inch Gravity Sewer Improvements	\$ 1,822	\$ 22	\$ 136	\$ 655	\$ 1,009	\$ -
CE011700	Western Trunk Force Main Replacement	\$ 1,766	\$ 1,454	\$ 311	\$ -	\$ -	\$ -
CE011810	Chesapeake-Elizabeth Treatment Plant Decommissioning	\$ 5,424	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ -
CE011821	Elbow Road Pressure Reducing Station	\$ 4,391	\$ 4,389	\$ 3	\$ -	\$ -	\$ -
CE011822	Providence Road PRS Upgrades and Interconnect Force Main	\$ 4,800	\$ 4,800	\$ -	\$ -	\$ -	\$ -
CE011823	Virginia Beach Boulevard Force Main Phase VI	\$ 17,189	\$ 12,131	\$ 5,058	\$ -	\$ -	\$ -
CE011825	Salem Road Interconnect Force Main	\$ 1,110	\$ 1,110	\$ -	\$ -	\$ -	\$ -
CE011826	Providence Road Off-Line Storage Facility	\$ 17,964	\$ 17,964	\$ -	\$ -	\$ -	\$ -
CE011827	Atlantic PRS Reliability Modifications	\$ 2,565	\$ 2,565	\$ -	\$ -	\$ -	\$ -
CE011830	Little Creek Pump Station Modifications	\$ 317	\$ 317	\$ -	\$ -	\$ -	\$ -
CE011835	Virginia Beach City Pump Station Upgrades, Phase V	\$ 1,510	\$ -	\$ 1,510	\$ -	\$ -	\$ -
CE011836	Norfolk City Pump Station Upgrades	\$ 993	\$ 380	\$ 613	\$ -	\$ -	\$ -
CE011840	Oceana Off-Line Storage Facility	\$ 72	\$ 67	\$ 6	\$ -	\$ -	\$ -
CE011850	Atlantic Service Area Automated Diversion Facilities Phase I	\$ 1,931	\$ 1,181	\$ 750	\$ -	\$ -	\$ -
CE012100	Witchduck Road Interceptor Force Main Improvements	\$ 3,622	\$ 3	\$ 135	\$ 234	\$ 717	\$ 1,321
CE012200	Pine Tree PRS Reliability Modifications	\$ 5	\$ 5	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 70,776	\$ 49,883	\$ 10,329	\$ 2,881	\$ 2,726	\$ 1,321
Eastern Shore							
ES010000	Eastern Shore Infrastructure Improvements - Interim Plant Improvements	\$ 1,200	\$ 1,200	\$ -	\$ -	\$ -	\$ -
ES010100	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase I	\$ 14,000	\$ -	\$ 1,000	\$ 5,000	\$ 8,000	\$ -
ES010200	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase II	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000
	Subtotal	\$ 23,200	\$ 1,200	\$ 1,000	\$ 5,000	\$ 8,000	\$ 1,000
James River							
JR010600	Lucas Creek Pump Station Upgrade	\$ 6,215	\$ 303	\$ 2,706	\$ 2,950	\$ 256	\$ -
JR011300	Patrick Henry Pump Station Interconnection Force Main	\$ 1,262	\$ 1,262	\$ -	\$ -	\$ -	\$ -
JR011730	Jefferson Avenue Interceptor Force Main Replacement Phase III	\$ 11,598	\$ 9,933	\$ 1,665	\$ -	\$ -	\$ -
JR012100	Huxley to Middle Ground Force Main Extension	\$ 1,847	\$ 1,845	\$ 2	\$ -	\$ -	\$ -
JR013000	Morrison Pump Station Discharge Force Main Replacement & Capacity Enhancements	\$ 1,405	\$ 1,077	\$ 328	\$ -	\$ -	\$ -
JR013200	Lucas Creek-Woodhaven Interceptor Force Main Replacement Phase II	\$ 2,211	\$ 36	\$ 406	\$ 1,512	\$ 257	\$ -
JR013400	Improvements	\$ 160,338	\$ 2,108	\$ 14,376	\$ 58,284	\$ 64,918	\$ 20,652
	Subtotal	\$ 184,876	\$ 16,564	\$ 19,483	\$ 62,746	\$ 65,431	\$ 20,652
Middle Peninsula							
MP011700	Middle Peninsula Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements	\$ 2,689	\$ 500	\$ 500	\$ 500	\$ 689	\$ 500
MP012000	King William Treatment Plant Improvements Phase I	\$ 2,001	\$ 1,996	\$ 5	\$ -	\$ -	\$ -
MP012400	West Point Treatment Plant Tertiary Filter	\$ 357	\$ 357	\$ -	\$ -	\$ -	\$ -
MP012500	Mathews Main Vacuum Pump Station Replacement	\$ 5	\$ 5	\$ -	\$ -	\$ -	\$ -
MP013000	Small Communities Collection System Rehabilitation Phase I	\$ 15	\$ 15	\$ -	\$ -	\$ -	\$ -
MP013020	Small Communities Collection System Rehabilitation Phase III	\$ 709	\$ 704	\$ 5	\$ -	\$ -	\$ -
MP013100	Small Communities Mobile Dewatering Facilities Installation	\$ 849	\$ 849	\$ -	\$ -	\$ -	\$ -
MP013300	King William Treatment Plant Improvements Phase II	\$ 13,996	\$ 492	\$ 439	\$ 6,520	\$ 6,520	\$ 25
MP013400	Small Communities Operation Center Parking and Laydown Area	\$ 400	\$ 400	\$ -	\$ -	\$ -	\$ -
MP013500	Middlesex Collection System-Cooks Corner	\$ 1,021	\$ 1,021	\$ -	\$ -	\$ -	\$ -
MP013600	Middlesex Interceptor Force Main Phase I-Cooks Corner	\$ 1,340	\$ 1,340	\$ -	\$ -	\$ -	\$ -
MP013700	Middlesex Interceptor System Program Phase II-Urbanna to Mathews Transmission Force Main	\$ 26,206	\$ 1,097	\$ 1,043	\$ 12,021	\$ 12,021	\$ 25
MP013800	Middlesex Interceptor System Program Phase III	\$ 5,510	\$ -	\$ 139	\$ 370	\$ 3,749	\$ 1,253
MP013900	Urbanna Wastewater Treatment Plant Reliability Improvements	\$ 250	\$ 250	\$ -	\$ -	\$ -	\$ -
MP014100	Middlesex Collection System-Christ's Church Service Area	\$ 1,017	\$ 73	\$ 173	\$ 575	\$ 197	\$ -
MP014200	Middlesex Collection System-Topping Service Area	\$ 5,578	\$ -	\$ 201	\$ 269	\$ 683	\$ 2,405
MP014300	Middlesex Collection System-Locust Hill Service Area	\$ 3,515	\$ 253	\$ 477	\$ 1,511	\$ 1,269	\$ 5
MP014400	Middlesex Collection System-Hartfield Service Area	\$ 4,086	\$ 295	\$ 553	\$ 1,758	\$ 1,475	\$ 5
MP014500	Middlesex Collection System-Saluda Service Area	\$ 4,092	\$ 295	\$ 554	\$ 1,761	\$ 1,478	\$ 5
MP014600	Middlesex Collection System-Deltaville Service Area	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MP014700	Small Communities Rehabilitation Phase IV	\$ 705	\$ 82	\$ 623	\$ -	\$ -	\$ -
MP014800	Small Communities Rehabilitation Phase V	\$ 411	\$ -	\$ 52	\$ 358	\$ -	\$ -
MP014900	Middle Peninsula Operations Center Locker Room and Administrative Facilities	\$ 600	\$ 60	\$ 540	\$ -	\$ -	\$ -
MP015000	Sharon Road Gravity Sewer Improvements	\$ 351	\$ 101	\$ 250	\$ -	\$ -	\$ -
MP015100	West Point Pump Station 4 (Thompson Avenue) Rehabilitation	\$ 771	\$ 95	\$ 671	\$ 5	\$ -	\$ -
MP015200	West Point Treatment Plant Improvements (2021)	\$ 30,250	\$ -	\$ 563	\$ 2,271	\$ 8,292	\$ 13,500
	Subtotal	\$ 106,723	\$ 10,279	\$ 6,787	\$ 27,918	\$ 36,372	\$ 17,723
Note:	PRS - Pressure Reducing Station SCADA - Supervisory Control and Data Acquisition						

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
Chesapeake-Elizabeth						
CE010400	Independence Boulevard Pressure Reducing Station Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
CE010520	Newtown Road Interceptor Force Main Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
CE011300	Birchwood Trunk 24-Inch 30-Inch Force Main at Independence Boulevard Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
CE011600	Poplar Hall Davis Corner Trunk 24-Inch Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
CE011700	Western Trunk Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
CE011810	Chesapeake-Elizabeth Treatment Plant Decommissioning	\$ -	\$ -	\$ -	\$ -	\$ 2,424
CE011821	Elbow Road Pressure Reducing Station	\$ -	\$ -	\$ -	\$ -	\$ -
CE011822	Providence Road PRS Upgrades and Interconnect Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
CE011823	Virginia Beach Boulevard Force Main Phase VI	\$ -	\$ -	\$ -	\$ -	\$ -
CE011825	Salem Road Interconnect Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
CE011826	Providence Road Off-Line Storage Facility	\$ -	\$ -	\$ -	\$ -	\$ -
CE011827	Atlantic PRS Reliability Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
CE011830	Little Creek Pump Station Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
CE011835	Virginia Beach City Pump Station Upgrades, Phase V	\$ -	\$ -	\$ -	\$ -	\$ -
CE011836	Norfolk City Pump Station Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
CE011840	Oceana Off-Line Storage Facility	\$ -	\$ -	\$ -	\$ -	\$ -
CE011850	Atlantic Service Area Automated Diversion Facilities Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
CE012100	Witchduck Road Interceptor Force Main Improvements	\$ 1,211	\$ -	\$ -	\$ -	\$ -
CE012200	Pine Tree PRS Reliability Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 1,211	\$ -	\$ -	\$ -	\$ 2,424
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	\$ 3,000	\$ 4,000	\$ -	\$ -	\$ -
	Subtotal	\$ 3,000	\$ 4,000	\$ -	\$ -	\$ -
James River						
JR010600	Lucas Creek Pump Station Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -
JR011300	Patrick Henry Pump Station Interconnection Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
JR011730	Jefferson Avenue Interceptor Force Main Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
JR012100	Huxley to Middle Ground Force Main Extension	\$ -	\$ -	\$ -	\$ -	\$ -
JR013000	Morrison Pump Station Discharge Force Main Replacement & Capacity Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
JR013200	Lucas Creek-Woodhaven Interceptor Force Main Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
JR013400	Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -
Middle Peninsula						
MP011700	Middle Peninsula Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
MP012000	King William Treatment Plant Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
MP012400	West Point Treatment Plant Tertiary Filter	\$ -	\$ -	\$ -	\$ -	\$ -
MP012500	Mathews Main Vacuum Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
MP013000	Small Communities Collection System Rehabilitation Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
MP013020	Small Communities Collection System Rehabilitation Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
MP013100	Small Communities Mobile Dewatering Facilities Installation	\$ -	\$ -	\$ -	\$ -	\$ -
MP013300	King William Treatment Plant Improvements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
MP013400	Small Communities Operation Center Parking and Laydown Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP013500	Middlesex Collection System-Cooks Corner	\$ -	\$ -	\$ -	\$ -	\$ -
MP013600	Middlesex Interceptor Force Main Phase I-Cooks Corner	\$ -	\$ -	\$ -	\$ -	\$ -
MP013700	Middlesex Interceptor System Program Phase II-Urbanna to Mathews Transmission Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
MP013800	Middlesex Interceptor System Program Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
MP013900	Urbanna Wastewater Treatment Plant Reliability Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP014100	Middlesex Collection System-Christ's Church Service Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP014200	Middlesex Collection System-Topping Service Area	\$ 2,014	\$ 5	\$ -	\$ -	\$ -
MP014300	Middlesex Collection System-Locust Hill Service Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP014400	Middlesex Collection System-Hartfield Service Area	\$ -	\$ -	\$ -	\$ -	\$ -
MP014500	Middlesex Collection System-Saluda Service Area	\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ -	\$ -	\$ -	\$ -	\$ -
MP015200	West Point Treatment Plant Improvements (2021)	\$ 5,625	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 7,639	\$ 5	\$ -	\$ -	\$ -
Note:	PRS - Pressure Reducing Station SCADA - Supervisory Control and Data Acquisition					

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2021 to FY-2030	FY-2021	FY-2022	FY-2023	FY-2024	FY-2025
Nansemond							
NP010620	Suffolk Pump Station Replacement	\$ 15,368	\$ 4,521	\$ 10,013	\$ 834	\$ -	\$ -
NP011300	Suffolk Interceptor Force Main Section I Main Line Valving Replacement	\$ 783	\$ 783	\$ -	\$ -	\$ -	\$ -
NP012400	Western Branch Sewer System Gravity Improvements	\$ 2,838	\$ -	\$ 164	\$ 164	\$ 2,511	\$ -
NP012500	Shingle Creek and Hickman's Branch Gravity Sewer Improvements	\$ 856	\$ 856	\$ -	\$ -	\$ -	\$ -
NP012600	Deep Creek Interceptor Force Main Replacement	\$ 2,152	\$ 2,152	\$ -	\$ -	\$ -	\$ -
NP013000	Nansemond Treatment Plant Motor Control Center Replacements	\$ 1,722	\$ 608	\$ 608	\$ 506	\$ -	\$ -
NP013400	Deep Creek Interceptor Force Main Risk Mitigation Project	\$ 857	\$ 857	\$ -	\$ -	\$ -	\$ -
NP013500	Nansemond Treatment Plant Land Acquisition-Land Stabilization	\$ 2,749	\$ 2,742	\$ 7	\$ -	\$ -	\$ -
NP013600	Nansemond Treatment Plant Land Acquisition-Structure Demolition	\$ 662	\$ 662	\$ -	\$ -	\$ -	\$ -
NP013700	Nansemond Treatment Plant Struvite Recovery Facility Improvements Phase	\$ 8,565	\$ 96	\$ 2,140	\$ 5,059	\$ 1,270	\$ -
NP013810	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph I	\$ 801	\$ 801	\$ -	\$ -	\$ -	\$ -
NP013820	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph II	\$ 219,082	\$ 3,764	\$ 2,447	\$ 16,346	\$ 93,184	\$ 88,121
NP013901	Nansemond Service Area I-I Reduction Phase II (CHES)	\$ 15,539	\$ -	\$ -	\$ -	\$ -	\$ 257
NP013902	Nansemond Service Area I-I Reduction Phase III (CHES)	\$ 15,452	\$ -	\$ -	\$ -	\$ -	\$ -
NP014000	Wilroy Pressure Reducing Station and Offline Storage (NP-HPP-03)	\$ 16,216	\$ 955	\$ 959	\$ 7,529	\$ 6,774	\$ -
NP014100	Nansemond Treatment Plant Shoreline Improvements Phase II	\$ 2,941	\$ -	\$ -	\$ -	\$ -	\$ -
NP014400	Nansemond Treatment Plant Influent Screen Replacement	\$ 2,759	\$ 2,749	\$ 10	\$ -	\$ -	\$ -
NP014500	Nansemond Treatment Plant Regional Residuals Facility Upgrade	\$ 1,770	\$ 234	\$ 1,536	\$ -	\$ -	\$ -
NP014600	West Road Interceptor Force Main Extension	\$ 6,042	\$ 318	\$ 3,578	\$ 2,147	\$ -	\$ -
	Subtotal	\$ 317,153	\$ 22,097	\$ 21,460	\$ 32,584	\$ 103,738	\$ 88,378
Surry							
SU010200	Surry Hydraulic Improvements and Interceptor Force Main	\$ 29,722	\$ 15,507	\$ 14,215	\$ -	\$ -	\$ -
SU010300	Surry Water and Sewer Infrastructure Improvements – Phase 1	\$ 1,901	\$ 992	\$ 908	\$ -	\$ -	\$ -
	Subtotal	\$ 31,623	\$ 16,499	\$ 15,123	\$ -	\$ -	\$ -
Virginia Initiative Plant							
VP010920	Norview Estabrook Division I 18-Inch Force Main Replacement Phase II, Section 2	\$ 1,816	\$ 120	\$ 93	\$ 892	\$ 711	\$ -
VP014010	Ferebee Avenue Pump Station Replacement	\$ 6,343	\$ 138	\$ -	\$ 2,387	\$ 3,524	\$ 294
VP014020	Sanitary Sewer Project 1950 12 Inch Force Main and 24 and 18 Inch Gravity Replacement	\$ 8,805	\$ 570	\$ 2,954	\$ 3,514	\$ 1,767	\$ -
VP014700	Ingleside Road Pump Station Replacement	\$ 3,070	\$ 1,158	\$ 1,913	\$ -	\$ -	\$ -
VP014800	Lee Avenue-Wesley Street Horizontal Valve Replacement	\$ 1,608	\$ -	\$ 215	\$ 1,393	\$ -	\$ -
VP015320	Larchmont Area Sanitary Sewer Improvements	\$ 33,384	\$ 2,665	\$ 2,798	\$ 3,992	\$ 8,954	\$ 8,954
VP015400	Lafayette Norview-Estabrook Pump Station Replacements	\$ 16,222	\$ 1,898	\$ 4,817	\$ 5,704	\$ 3,803	\$ -
VP016500	Norview-Estabrook Division I 12-Inch Force Main Replacement	\$ 1,805	\$ 82	\$ 62	\$ 922	\$ 738	\$ -
VP016700	Norview-Estabrook Division I 18-Inch Force Main Replacement Phase III	\$ 2,520	\$ 101	\$ 77	\$ 1,301	\$ 1,041	\$ -
VP017110	Central Norfolk Area Gravity Sewer Improvements Phase I	\$ 110	\$ 110	\$ -	\$ -	\$ -	\$ -
VP017120	Central Norfolk Area Gravity Sewer Improvements Phase II	\$ 2,579	\$ -	\$ 50	\$ 215	\$ 1,086	\$ 1,229
VP018000	Park Avenue Pump Station Replacement	\$ 7,443	\$ 367	\$ 4,043	\$ 3,033	\$ -	\$ -
VP018200	Effingham Interceptor Vault Removal	\$ 2,081	\$ 1,122	\$ 959	\$ -	\$ -	\$ -
VP018301	VIP Service Area I-I Reduction Phase I (PORTS)	\$ 12,659	\$ 1,096	\$ 1,546	\$ 5,713	\$ 4,305	\$ -
VP018302	Portsmouth Pump Station Upgrades (VIP-HPP-04B)	\$ 10,320	\$ -	\$ -	\$ -	\$ -	\$ -
VP018303	VIP Service Area I-I Reduction Phase III (PORTS)	\$ 9,090	\$ 1,000	\$ 1,087	\$ 3,990	\$ 3,012	\$ -
VP018304	Camden Avenue Pump Station Upgrades (VIP-HPP-04D)	\$ 5,371	\$ -	\$ -	\$ -	\$ -	\$ -
VP018305	Camden Avenue Gravity Improvements (VIP-HPP-04E)	\$ 2,569	\$ -	\$ -	\$ -	\$ -	\$ -
VP018400	State Street Pressure Reducing Station and Offline Storage (VIP HPP-05)	\$ 14,464	\$ -	\$ -	\$ -	\$ -	\$ -
VP018500	Elizabeth River Crossing Reliability Improvements	\$ 1,043	\$ 793	\$ 250	\$ -	\$ -	\$ -
VP018800	Virginia Initiative Plant Administration Building Renovation	\$ 1,862	\$ 386	\$ 1,476	\$ -	\$ -	\$ -
VP018900	Norchester Pump Station Screening Improvements	\$ 460	\$ 88	\$ 290	\$ 83	\$ -	\$ -
	Subtotal	\$ 145,625	\$ 11,694	\$ 22,628	\$ 33,141	\$ 28,942	\$ 10,477
Williamsburg							
WB012400	Williamsburg Treatment Plant Generator and Switchgear Replacement	\$ 8,972	\$ 8,972	\$ -	\$ -	\$ -	\$ -
WB012500	Lodge Road Pump Station Upgrades	\$ 1,534	\$ 159	\$ 537	\$ 839	\$ -	\$ -
WB012600	Kingsmill Pump Station Piping Replacement and Wet Well Rehabilitation	\$ 3,443	\$ 3,086	\$ 357	\$ -	\$ -	\$ -
WB012900	Williamsburg Treatment Plant Administration Building Renovation	\$ 1,114	\$ 406	\$ 708	\$ -	\$ -	\$ -
	Subtotal	\$ 15,063	\$ 12,622	\$ 1,602	\$ 839	\$ -	\$ -
Note:	CHES - City of Chesapeake NP - Nansemond Treatment Plant HPP - High Priority Project VIP - Virginia Initiative Plant PORTS - City of Portsmouth						

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
Nansemond						
NP010620	Suffolk Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP011300	Suffolk Interceptor Force Main Section I Main Line Valving Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP012400	Western Branch Sewer System Gravity Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
NP012500	Shingle Creek and Hickman's Branch Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
NP012600	Deep Creek Interceptor Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP013000	Nansemond Treatment Plant Motor Control Center Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
NP013400	Deep Creek Interceptor Force Main Risk Mitigation Project	\$ -	\$ -	\$ -	\$ -	\$ -
NP013500	Nansemond Treatment Plant Land Acquisition-Land Stabilization	\$ -	\$ -	\$ -	\$ -	\$ -
NP013600	Nansemond Treatment Plant Land Acquisition-Structure Demolition	\$ -	\$ -	\$ -	\$ -	\$ -
NP013700	Nansemond Treatment Plant Struvite Recovery Facility Improvements Phase	\$ -	\$ -	\$ -	\$ -	\$ -
NP013810	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph I	\$ -	\$ -	\$ -	\$ -	\$ -
NP013820	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph II	\$ 15,220	\$ -	\$ -	\$ -	\$ -
NP013901	Nansemond Service Area I-I Reduction Phase II (CHES)	\$ 1,569	\$ 2,902	\$ 8,093	\$ 2,718	\$ -
NP013902	Nansemond Service Area I-I Reduction Phase III (CHES)	\$ 1,349	\$ 1,850	\$ 8,163	\$ 4,082	\$ 8
NP014000	Wilroy Pressure Reducing Station and Offline Storage (NP-HPP-03)	\$ -	\$ -	\$ -	\$ -	\$ -
NP014100	Nansemond Treatment Plant Shoreline Improvements Phase II	\$ -	\$ 205	\$ 620	\$ 2,117	\$ -
NP014400	Nansemond Treatment Plant Influent Screen Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP014500	Nansemond Treatment Plant Regional Residuals Facility Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -
NP014600	West Road Interceptor Force Main Extension	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 18,138	\$ 4,957	\$ 16,876	\$ 8,916	\$ 8
Surry						
SU010200	Surry Hydraulic Improvements and Interceptor Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
SU010300	Surry Water and Sewer Infrastructure Improvements – Phase 1	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -
Virginia Initiative Plant						
VP010920	Norview Estabrook Division I 18-Inch Force Main Replacement Phase II, Section 2	\$ -	\$ -	\$ -	\$ -	\$ -
VP014010	Ferebee Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP014020	Sanitary Sewer Project 1950 12 Inch Force Main and 24 and 18 Inch Gravity Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP014700	Ingleside Road Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP014800	Lee Avenue-Wesley Street Horizontal Valve Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP015320	Larchmont Area Sanitary Sewer Improvements	\$ 6,020	\$ -	\$ -	\$ -	\$ -
VP015400	Lafayette Norview-Estabrook Pump Station Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
VP016500	Norview-Estabrook Division I 12-Inch Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP016700	Norview-Estabrook Division I 18-Inch Force Main Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
VP017110	Central Norfolk Area Gravity Sewer Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
VP017120	Central Norfolk Area Gravity Sewer Improvements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
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)	\$ 283	\$ 747	\$ 6,057	\$ 3,233	\$ -
VP018303	VIP Service Area I-I Reduction Phase III (PORTS)	\$ -	\$ -	\$ -	\$ -	\$ -
VP018304	Camden Avenue Pump Station Upgrades (VIP-HPP-04D)	\$ 207	\$ 249	\$ 2,054	\$ 2,861	\$ -
VP018305	Camden Avenue Gravity Improvements (VIP-HPP-04E)	\$ 44	\$ 237	\$ 1,644	\$ 644	\$ -
VP018400	State Street Pressure Reducing Station and Offline Storage (VIP HPP-05)	\$ -	\$ 557	\$ 639	\$ 4,068	\$ 9,199
VP018500	Elizabeth River Crossing Reliability Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
VP018800	Virginia Initiative Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
VP018900	Norchester Pump Station Screening Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 6,553	\$ 1,790	\$ 10,395	\$ 10,806	\$ 9,199
Williamsburg						
WB012400	Williamsburg Treatment Plant Generator and Switchgear Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
WB012500	Lodge Road Pump Station Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
WB012600	Kingsmill Pump Station Piping Replacement and Wet Well Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
WB012900	Williamsburg Treatment Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -
Note:	CHES - City of Chesapeake NP - Nansemond Treatment Plant HPP - High Priority Project VIP - Virginia Initiative Plant PORTS - City of Portsmouth					

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2021 to FY-2030	FY-2021	FY-2022	FY-2023	FY-2024	FY-2025
York River							
YR010300	Foxridge Sanitary Sewer System Sections 1, 4 & 5 Gravity and Woodland Road Fox Hill Road Gravity Sewer Rehabilitation	\$ 3,178	\$ -	\$ 231	\$ 1,528	\$ 1,418	\$ -
YR010520	Magruder Mercury Interceptor Force Main Replacement - Section B	\$ 4,301	\$ 40	\$ 322	\$ 1,438	\$ 2,498	\$ 3
YR010530	Magruder Mercury Interceptor Force Main Replacement - Section C	\$ 5,693	\$ -	\$ 33	\$ 59	\$ 518	\$ 1,630
YR010900	Tabb Pressure Reducing Station and Offline Storage Facility	\$ 11,602	\$ 566	\$ 2,031	\$ 6,000	\$ 3,005	\$ -
YR011900	Bethel-Poquoson Force Main Part III Replacement	\$ 399	\$ 399	\$ -	\$ -	\$ -	\$ -
YR013600	York River Treatment Plant Solids Handling Electrical Improvements	\$ 5	\$ 5	\$ -	\$ -	\$ -	\$ -
YR013710	York River Treatment Plant Advanced Nutrient Reduction Improvements Phase I	\$ 643	\$ 643	\$ -	\$ -	\$ -	\$ -
YR013900	York River System Isolation Valve Installation and Replacement	\$ 1,773	\$ 1,474	\$ 299	\$ -	\$ -	\$ -
YR014000	York River Treatment Plant Administration Building Renovation	\$ 1,149	\$ 109	\$ 1,040	\$ -	\$ -	\$ -
YR014100	Coliseum Pressure Reducing Station Enhanced Storage	\$ 8,078	\$ 204	\$ -	\$ -	\$ 548	\$ 5,856
YR014200	LaSalle Avenue Boat Harbor to York River Interconnect Force Main	\$ 6,974	\$ 203	\$ -	\$ 90	\$ 456	\$ 4,665
YR014300	Bethel-Poquoson Force Main Phase II (Wythe Creek Road) Replacement	\$ 2,700	\$ 1,314	\$ 1,386	\$ -	\$ -	\$ -
Subtotal		\$ 46,496	\$ 4,958	\$ 5,343	\$ 9,115	\$ 8,444	\$ 12,154
General							
GN010730	Horizontal Valve Replacement Phase III	\$ 1,101	\$ 82	\$ 88	\$ 260	\$ 260	\$ 260
GN011700	Pump Station Generators and Standby Pump Upgrades	\$ 3,091	\$ 3,091	\$ -	\$ -	\$ -	\$ -
GN012130	Manhole Rehabilitation-Replacement Phase I and North Shore Siphon Chamber Rehabilitation Phase I	\$ 5,721	\$ 5,721	\$ -	\$ -	\$ -	\$ -
GN013300	Treatment Plant Grease Handling Facilities	\$ 8,120	\$ 4,507	\$ 3,613	\$ -	\$ -	\$ -
GN014900	North Shore Gravity Sewer Improvements Phase I	\$ 4,377	\$ 288	\$ 2,551	\$ 1,538	\$ -	\$ -
GN015000	South Shore Gravity Sewer Improvements Phase I	\$ 767	\$ 39	\$ 68	\$ 247	\$ 413	\$ -
GN015300	Interceptor System Valve Improvements Phase I	\$ 2,673	\$ 157	\$ 138	\$ 884	\$ 1,280	\$ 213
GN015400	South Shore Aerial Crossing Improvements	\$ 269	\$ 15	\$ 11	\$ 125	\$ 119	\$ -
GN015800	North Shore Automated Diversion Facilities	\$ 1,394	\$ 223	\$ 1,170	\$ -	\$ -	\$ -
GN016310	Integrated Planning of SWIFT	\$ 5,017	\$ 903	\$ 900	\$ 903	\$ 905	\$ 900
GN016311	Outfall Dispersion Modeling for Full Scale SWIFT	\$ 1,095	\$ 570	\$ 175	\$ 175	\$ 175	\$ -
GN016320	Program Management of SWIFT Full Scale Implementation	\$ 53,599	\$ 5,360	\$ 5,360	\$ 5,360	\$ 5,360	\$ 5,360
GN016341	VIP SWIFT Land Acquisition	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ -
GN016342	Williamsburg SWIFT Land Acquisition	\$ 1,498	\$ -	\$ -	\$ -	\$ -	\$ -
GN016344	James River Land Improvements	\$ 2,031	\$ 31	\$ -	\$ 1,000	\$ -	\$ 518
GN016350	Williamsburg SWIFT Facility	\$ 28,676	\$ -	\$ -	\$ -	\$ -	\$ -
GN016351	Williamsburg Recharge Wells	\$ 1,148	\$ -	\$ -	\$ -	\$ -	\$ -
GN016360	James River SWIFT Facility	\$ 180,858	\$ 1,492	\$ 15,270	\$ 67,252	\$ 73,255	\$ 23,590
GN016361	James River Recharge Wells	\$ 28,962	\$ 1,263	\$ 2,489	\$ 10,181	\$ 11,529	\$ 3,250
GN016370	York River SWIFT Facility	\$ 164,412	\$ -	\$ -	\$ 1,992	\$ 995	\$ 5,206
GN016371	York River Recharge Wells	\$ 27,500	\$ -	\$ -	\$ -	\$ 219	\$ 1,063
GN016380	Nansemond SWIFT Facility	\$ 287,525	\$ -	\$ 1,964	\$ 3,258	\$ 4,234	\$ 7,045
GN016381	Nansemond Recharge Wells	\$ 48,888	\$ -	\$ -	\$ -	\$ 764	\$ 1,390
GN016390	VIP SWIFT Facility	\$ 312,923	\$ -	\$ -	\$ 1,911	\$ 3,595	\$ 2,651
GN016391	VIP Recharge Wells	\$ 73,332	\$ -	\$ 50	\$ 818	\$ 665	\$ 1,887
GN016392	VIP SWIFT Site Work	\$ 38,891	\$ -	\$ -	\$ 356	\$ 1,386	\$ 8,289
GN016400	Treatment Plant Dewatering Replacement Phase I	\$ 1,522	\$ 1,522	\$ -	\$ -	\$ -	\$ -
GN016600	South Shore High Point Air Vent Installation Phase I	\$ 270	\$ 270	\$ -	\$ -	\$ -	\$ -
GN016700	Treatment Plant Solids Handling Replacement Phase II	\$ 5,324	\$ 467	\$ 4,857	\$ -	\$ -	\$ -
GN017100	Climate Change Planning	\$ 1,983	\$ 1,831	\$ 153	\$ -	\$ -	\$ -
GN017200	Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements Phase II	\$ 9,005	\$ 3,000	\$ 3,000	\$ 3,005	\$ -	\$ -
GN017300	Treatment Plant Dewatering Replacement Program	\$ 27,222	\$ -	\$ -	\$ -	\$ 3,889	\$ 3,889
GN017500	Fleet Management Program	\$ 15,095	\$ -	\$ 1,887	\$ 1,887	\$ 1,887	\$ 1,887
GN017700	Fleet Management (FY21)	\$ 1,200	\$ 1,200	\$ -	\$ -	\$ -	\$ -
GN017800	Water Quality Department Instrumentation Equipment (FY21)	\$ 435	\$ 435	\$ -	\$ -	\$ -	\$ -
GN017900	Solids System Improvements for Army Base MHI Offline	\$ 3,800	\$ 2,436	\$ 1,364	\$ -	\$ -	\$ -
GN018000	Inflow Reduction Program - Phase I	\$ 2,000	\$ 531	\$ 375	\$ 375	\$ 375	\$ 344
Subtotal		\$ 1,366,723	\$ 35,432	\$ 45,482	\$ 116,527	\$ 111,304	\$ 67,741
Future Improvements							
IP011000	Advanced Treatment Infrastructure Upgrades	\$ 59,473	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 59,473	\$ -	\$ -	\$ -	\$ -	\$ -
CIP TOTALS		\$ 2,793,403	\$ 235,000	\$ 210,784	\$ 338,095	\$ 442,857	\$ 323,810
Note:	VIP - Virginia Initiative Plant SWIFT - Sustainable Water Initiative for Tomorrow SCADA - Supervisory Control and Data Acquisition MHI - Multiple Hearth Incinerator						

FY-2021 to FY-2030

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2026	FY-2027	FY-2028	FY-2029	FY-2030
York River						
YR010300	Foxridge Sanitary Sewer System Sections 1, 4 & 5 Gravity and Woodland Road Fox Hill Road Gravity Sewer Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
YR010520	Magruder Mercury Interceptor Force Main Replacement - Section B	\$ -	\$ -	\$ -	\$ -	\$ -
YR010530	Magruder Mercury Interceptor Force Main Replacement - Section C	\$ 2,437	\$ 1,016	\$ -	\$ -	\$ -
YR010900	Tabb Pressure Reducing Station and Offline Storage Facility	\$ -	\$ -	\$ -	\$ -	\$ -
YR011900	Bethel-Poquoson Force Main Part III Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR013600	York River Treatment Plant Solids Handling Electrical Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
YR013710	York River Treatment Plant Advanced Nutrient Reduction Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
YR013900	York River System Isolation Valve Installation and Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR014000	York River Treatment Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
YR014100	Coliseum Pressure Reducing Station Enhanced Storage	\$ 1,469	\$ -	\$ -	\$ -	\$ -
YR014200	LaSalle Avenue Boat Harbor to York River Interconnect Force Main	\$ 1,560	\$ -	\$ -	\$ -	\$ -
YR014300	Bethel-Poquoson Force Main Phase II (Wythe Creek Road) Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 5,466	\$ 1,016	\$ -	\$ -	\$ -
General						
GN010730	Horizontal Valve Replacement Phase III	\$ 152	\$ -	\$ -	\$ -	\$ -
GN011700	Pump Station Generators and Standby Pump Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
GN012130	Manhole Rehabilitation-Replacement Phase I and North Shore Siphon Chamber Rehabilitation Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ -	\$ -	\$ -	\$ -	\$ -
GN016310	Integrated Planning of SWIFT	\$ 505	\$ 1	\$ -	\$ -	\$ -
GN016311	Outfall Dispersion Modeling for Full Scale SWIFT	\$ -	\$ -	\$ -	\$ -	\$ -
GN016320	Program Management of SWIFT Full Scale Implementation	\$ 5,360	\$ 5,360	\$ 5,360	\$ 5,360	\$ 5,360
GN016341	VIP SWIFT Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
GN016342	Williamsburg SWIFT Land Acquisition	\$ -	\$ -	\$ 1,498	\$ -	\$ -
GN016344	James River Land Improvements	\$ 482	\$ -	\$ -	\$ -	\$ -
GN016350	Williamsburg SWIFT Facility	\$ -	\$ -	\$ 2,215	\$ 2,034	\$ 24,427
GN016351	Williamsburg Recharge Wells	\$ -	\$ -	\$ -	\$ 292	\$ 856
GN016360	James River SWIFT Facility	\$ -	\$ -	\$ -	\$ -	\$ -
GN016361	James River Recharge Wells	\$ 250	\$ -	\$ -	\$ -	\$ -
GN016370	York River SWIFT Facility	\$ 78,426	\$ 73,552	\$ 4,241	\$ -	\$ -
GN016371	York River Recharge Wells	\$ 13,696	\$ 12,522	\$ -	\$ -	\$ -
GN016380	Nansemond SWIFT Facility	\$ 44,561	\$ 76,659	\$ 80,863	\$ 55,727	\$ 13,214
GN016381	Nansemond Recharge Wells	\$ 1,717	\$ 20,536	\$ 22,571	\$ 1,910	\$ -
GN016390	VIP SWIFT Facility	\$ 6,026	\$ 97,367	\$ 95,340	\$ 55,502	\$ 50,531
GN016391	VIP Recharge Wells	\$ 2,787	\$ 16,073	\$ 32,276	\$ 15,990	\$ 2,786
GN016392	VIP SWIFT Site Work	\$ 28,860	\$ -	\$ -	\$ -	\$ -
GN016400	Treatment Plant Dewatering Replacement Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN016600	South Shore High Point Air Vent Installation Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ 3,889	\$ 3,889	\$ 3,889	\$ 3,889	\$ 3,889
GN017500	Fleet Management Program	\$ 1,887	\$ 1,887	\$ 1,887	\$ 1,887	\$ -
GN017700	Fleet Management (FY21)	\$ -	\$ -	\$ -	\$ -	\$ -
GN017800	Water Quality Department Instrumentation Equipment (FY21)	\$ -	\$ -	\$ -	\$ -	\$ -
GN017900	Solids System Improvements for Army Base MHI Offline	\$ -	\$ -	\$ -	\$ -	\$ -
GN018000	Inflow Reduction Program - Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 188,597	\$ 307,846	\$ 250,139	\$ 142,591	\$ 101,063
Future Improvements						
IP011000	Advanced Treatment Infrastructure Upgrades	\$ -	\$ -	\$ -	\$ 9,214	\$ 50,259
Subtotal		\$ -	\$ -	\$ -	\$ 9,214	\$ 50,259
CIP TOTALS		\$ 247,619	\$ 333,333	\$ 280,952	\$ 190,476	\$ 190,476
Note:	VIP - Virginia Initiative Plant SWIFT - Sustainable Water Initiative for Tomorrow SCADA - Supervisory Control and Data Acquisition MHI - Multiple Hearth Incinerator					

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