

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

Water and Sewer

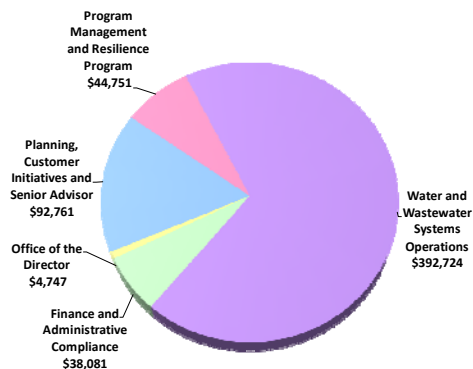
The Miami-Dade Water and Sewer Department (WASD) provides high-quality drinking water and wastewater services, safeguarding public health and the environment, while planning for future growth, implementing water conservation measures and providing for process improvements and cost efficiencies.

As part of the Neighborhood and Infrastructure strategic area, the Department’s main functions are water production and distribution, as well as wastewater collection, treatment, reuse and disposal. WASD operates both a water and a wastewater system. The Water System consists of three regional water treatment plants, one shared (City of Hialeah) reverse osmosis plant and five local water treatment plants with a total permitted capacity of 464 million gallons per day (MGD). Additionally, WASD operates and maintains 94 water supply wells (grouped into 14 wellfields) in the Biscayne Aquifer; five aquifer storage and recovery wells in the Floridan Aquifer and more than 8,700 miles of water distribution mains. The Wastewater System includes three regional wastewater treatment plants with a total permitted capacity of 376 MGD, more than 1,000 sewer pump stations and 6,400 miles of wastewater mains and lateral collection pipes. The Department implements water conservation measures, provides high quality drinking water and plans and improves infrastructure for future growth.

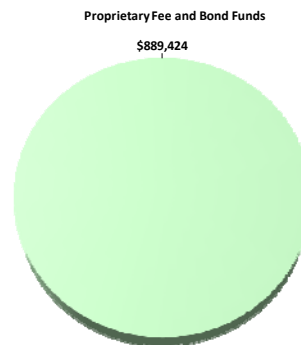
The Department delivers water and sewer services to most residents and businesses within Miami-Dade County, serving approximately 450,000 water and 366,000 wastewater retail customers as of September 30, 2019. Additionally, service is provided to 15 wholesale (municipal) water customers and to 13 wholesale (12 municipal and the Homestead Air Reserve Base) wastewater customers within Miami-Dade County on a daily basis. The total combined population served at the retail and wholesale level is approximately 2.3 million residents. In providing these services, the Department interacts with and is regulated by the United States Environmental Protection Agency, the Florida Department of Environmental Protection, the Miami-Dade County Health Department, the South Florida Water Management District and the Regulatory and Economic Resources Department (RER).

FY 2020-21 Proposed Operating Budget

Expenditures by Activity
(dollars in thousands)



Revenues by Source
(dollars in thousands)



FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

TABLE OF ORGANIZATION

<p><u>OFFICE OF THE DIRECTOR</u> Formulates and establishes departmental policy; directs overall operations</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 19-20</u> 12</td> <td style="text-align: center;"><u>FY 20-21</u> 8</td> </tr> </table>	<u>FY 19-20</u> 12	<u>FY 20-21</u> 8
<u>FY 19-20</u> 12	<u>FY 20-21</u> 8	
<p><u>WATER AND WASTEWATER SYSTEMS OPERATIONS</u> Operates and maintains water and wastewater systems: treatment plants, transmission/distribution systems and pump stations</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 19-20</u> 1,635</td> <td style="text-align: center;"><u>FY 20-21</u> 1,670</td> </tr> </table>	<u>FY 19-20</u> 1,635	<u>FY 20-21</u> 1,670
<u>FY 19-20</u> 1,635	<u>FY 20-21</u> 1,670	
<p><u>FINANCE AND ADMINISTRATIVE COMPLIANCE</u> Directs financial, budget, capital funding coordination and information technology functions; directs contractual compliance and quality assurance of construction/contractual work</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 19-20</u> 238</td> <td style="text-align: center;"><u>FY 20-21</u> 237</td> </tr> </table>	<u>FY 19-20</u> 238	<u>FY 20-21</u> 237
<u>FY 19-20</u> 238	<u>FY 20-21</u> 237	
<p><u>PROGRAM MANAGEMENT AND RESILIENCE PROGRAM</u> Directs water and wastewater design and construction activities for plants and pipelines; oversees the Resilience Program</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 19-20</u> 329</td> <td style="text-align: center;"><u>FY 20-21</u> 162</td> </tr> </table>	<u>FY 19-20</u> 329	<u>FY 20-21</u> 162
<u>FY 19-20</u> 329	<u>FY 20-21</u> 162	
<p><u>PLANNING, CUSTOMER INITIATIVES AND SENIOR ADVISOR</u> Directs the planning of the capital improvement program, compliance with state and federal agreements, utilities development, legislative activities, municipal policies, procurement, personnel, customer service and public information dissemination; oversees Consent Decree program and directs renewal and replacement capital projects, fleet and general activities</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 19-20</u> 602</td> <td style="text-align: center;"><u>FY 20-21</u> 739</td> </tr> </table>	<u>FY 19-20</u> 602	<u>FY 20-21</u> 739
<u>FY 19-20</u> 602	<u>FY 20-21</u> 739	

The FY 2020-21 total number of full-time equivalent positions is 2,816.8

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

DIVISION: OFFICE OF THE DIRECTOR

Formulates and establishes departmental policy; directs overall operations and legal support.

- Defines department policies and strategic goals
- Provides legal support

DIVISION COMMENTS

- The FY 2020-21 Proposed Budget continues a phased-in water and wastewater rate restructuring to all retail customers that results in a rate which is reflective of actual usage combined with the consideration of fiscal requirements related to capital investments that are mandated; rate structures for all tiers of residential, multi-family and non-residential customers were increased; the multi-family rate increase is higher than that for single family residential customers
- As part of a reorganization performed in FY 2019-20, four positions were transferred out of the Office of the Director: one to the Finance and Administrative Compliance Division and three to the Planning, Customer Initiatives and Senior Advisor Division
- Effective October 1, 2020, the wholesale water rate will increase by \$0.1043, from \$1.6904 to \$1.7947 per thousand gallons; the wastewater wholesale rate will also increase by \$0.1017, from \$3.1954 to \$3.2971 per thousand gallons; wholesale customers' bills include a true-up credit adjustment to recover actual cost for FY 2018-19
- The FY 2020-21 Proposed Budget includes a Memorandum of Understanding with the Office of the Inspector General to perform specialized audits as required (\$50,000) and payments to the Audit and Management Services Department for expenses associated with audits and reviews (\$500,000)
- In FY 2020-21, the Department will be revising its Leak Adjustment policies to provide additional options for residents that experience undetected leaks; proposed changes now include adjustments for unconcealed leaks and high bills with unknown sources (after certain requirements are met) and changes to existing leak adjustment policies that extend repair time and frequency of adjustments; the estimated fiscal impact is a \$1.4 million reduction in retail revenues

DIVISION: WATER AND WASTEWATER SYSTEMS OPERATIONS

Operates and maintains the water and wastewater treatment plants, pump stations, water distribution, wastewater collection and transmission lines.

- Directs water and wastewater systems operating goals and procedures
- Directs and oversees operation of water system including installations, repairs and maintenance of water infrastructure
- Directs and oversees operation of wastewater system including treatment and disposal as well as the maintenance of wastewater pumping and collection systems
- Installs, repairs, relocates, maintains and replaces water mains, meters, valves and fire lines countywide
- Installs, repairs, relocates, maintains and replaces wastewater gravity sewer lines, force mains, valves, sewer laterals and manholes countywide
- Manages the Water Cross Connection Control program
- Performs mechanical, electrical and structural maintenance of water and wastewater plants and wastewater lift stations
- Administers the SCADA system, telemetry and radios
- Provides laboratory analysis to comply with regulatory agencies' requirements
- Directs security activities as well as the emergency communication center when activated

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

Key Department Measures, Strategic Objectives and Resiliency Drivers									
Measures	SO	RD	Type	Good	FY 17-18	FY 18-19	FY 19-20	FY 19-20	FY 20-21
					Actual	Actual	Budget	Projection	Target
Average time to respond to sewage overflows (in minutes)	NI2-1	HW-1	EF	↓	49	39	45	45	45
Percentage of non-emergency requests dispatched in less than three business days	NI2-1	HW-1	OC	↑	78%	82%	99%	99%	99%
Percentage of pumps in service*	NI2-1	HW-1	EF	↑	100%	95%	100%	99%	99%
Wastewater mainline valves exercised	NI2-1	HW-1	OP	↔	6,484	6,314	6,000	6,240	6,000
Percentage compliance with drinking water standards	NI2-1	HW-1	OC	↑	100%	100%	100%	100%	100%

*In FY 18-19 approximately 52 out of the 1,038 pump stations were out of service due to regular maintenance, breaks, clogs, obsolete equipment and natural disasters; the FY 18-19 Actual has been updated accordingly

DIVISION COMMENTS

- As part of a reorganization performed in FY 2019-20, a total of 35 positions were transferred into the Water and Wastewater Systems Operation Division from the Planning, Customer Initiatives and Senior Advisor Division

DIVISION: FINANCE AND ADMINISTRATIVE COMPLIANCE

Directs financial, budget and capital funding coordination and information technology functions.

- Coordinates financial activities including debt administration, investments, grants and cash management
- Administers Controller's functions, general ledger, assets control and accounts payable; prepares retail, wholesale and special billings and collection
- Manages the Department's operating and capital budgets
- Manages business process support for customer care and billing, enterprise resource planning financial and enterprise asset management software systems
- Manages information technology
- Oversees contract compliance, provides strategic planning and directs performance improvement and efficiency savings programs

Key Department Measures, Strategic Objectives and Resiliency Drivers									
Measures	SO	RD	Type	Good	FY 17-18	FY 18-19	FY 19-20	FY 19-20	FY 20-21
					Actual	Actual	Budget	Projection	Target
Bond rating evaluation by Fitch	GG4-1	ES-3	OC	↑	A+	A+	A+	A+	A+
Bond rating evaluation by Standard and Poor's*	GG4-1	ES-3	OC	↑	A+	Aa-	Aa-	Aa-	Aa+
Bond rating evaluation by Moody's	GG4-1	ES-3	OC	↑	Aa3	Aa3	Aa3	Aa3	Aa3

*The change in the bond rating in FY 18-19 from A+ to Aa- reflects an improvement

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

DIVISION COMMENTS

- As part of a reorganization performed in FY 2019-20, one position was transferred into the Finance and Administrative Compliance Division from the Office of the Director and two positions were transferred out to the Planning, Customer Initiatives and Senior Advisor Division
- The FY 2020-21 Proposed Budget includes payments to the Finance Department for expenses associated with cash management services (\$50,000)
- The FY 2018-19 year-end combined fund balance is projected to be \$107.3 million in rate stabilization and general reserve funds; in FY 2019-20, these reserves are expected to increase to a combined balance of \$112.1 million, which exceeds the required fund balance of \$80 million in the operating budget pursuant to the bond ordinances

DIVISION: PROGRAM MANAGEMENT AND RESILIENCE PROGRAM

Directs compliance with state and federal agreements related to the ocean outfall legislation and resilience programs.

- Directs design and construction activities for both water and wastewater plants and pipelines
- Oversees capital program management for programs such as the Ocean Outfall Program and flow reduction programs
- Directs resilience program including Water Use Efficiency and Water Loss Reduction programs

Key Department Measures, Strategic Objectives and Resiliency Drivers

Measures	SO	RD	Type	Good	FY 17-18	FY 18-19	FY 19-20	FY 19-20	FY 20-21
					Actual	Actual	Budget	Projection	Target
Percentage of Ocean Outfall Legislation projects on schedule	NI2-1	IE-1	OC	↑	100%	100%	100%	100%	100%
Estimated gallons of water saved per day (GPD) through the Water Use Efficiency Program (in thousands)*	NI1-2	HW-1	OC	↑	189	287	160	200	200

* The FY 19-20 Projection and FY 20-21 Target reflect impacts due to COVID-19

DIVISION COMMENTS

- As part of a reorganization performed in FY 2019-20, a total of 167 positions were transferred from the Program Management and Resilience Program to the Planning, Customer Initiatives and Senior Advisor Division
- The FY 2020-21 Proposed Budget includes funding to the Parks, Recreation and Open Spaces (PROS) Department for Cooperative Extension's Florida Yards and Neighborhoods Program (\$285,000) and funding for CBO environmental related grants (\$200,000)
- In FY 2020-21, the Department will continue a program to reduce energy consumption encompassing facilities lighting and controls, operational equipment energy consumption, the implementation of the Energy Star Power plan and an employee awareness program, which includes an energy conservation website, newsletter and workshops

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

DIVISION: PLANNING, CUSTOMER INITIATIVES AND SENIOR ADVISOR

Directs planning of water and wastewater facilities and infrastructure; oversees environmental regulations compliance, legislative and municipal policies and public information dissemination; directs retail customer services, procurement, human resources, fleet and other general maintenance services.

- Manages retail customer services, human capital planning and general maintenance
- Directs planning of water and wastewater facilities and infrastructure
- Oversees environmental regulations and compliance with federal and state agreements
- Oversees compliance with the Consent Decree Program and capital renewal and replacement activities
- Processes applications for new water services, mains, pump stations and fire hydrant installations by private contractors
- Coordinates communications with media and customers
- Coordinates state and federal legislative actions and liaises with municipalities
- Coordinates items submitted to the Board of County Commissioners

Key Department Measures, Strategic Objectives and Resiliency Drivers

Measures	SO	RD	Type	Good	FY 17-18	FY 18-19	FY 19-20	FY 19-20	FY 20-21
					Actual	Actual	Budget	Projection	Target
Percentage of Consent Decree Wastewater Projects on Schedule*	NI2-1	IE-1	OC	↑	99%	93%	97%	91%	86%
Percent compliance with 20-Year Water Use Permit (WUP) as scheduled	NI2-1	IE-1	OC	↑	100%	100%	100%	100%	100%
Percentage of Comprehensive Development Master Plan and Development Impact Committee comments provided in a timely manner	NI2-1	LS-3	EF	↑	100%	100%	100%	100%	100%
Training hours per employee**	NI2-1	LS-1	OP	↔	15	14	19	17	17
Average call wait time (in minutes)***	NI2-1	LS-2	EF	↓	3.0	1.2	2.5	3.5	3.5
Percentage of calls answered within two minutes (monthly)***	NI2-1	LS-2	OC	↑	53%	76%	70%	45%	50%

* The FY 19-20 Projection and FY 20-21 Target continue to trend lower due to consent decree projects having construction delays, contractor defaults, contractor terminations and impacts related to COVID-19

** The FY 19-20 Projection and FY 20-21 Target reflect impacts from COVID-19

*** The FY 18-19 Actual wait time decreased because the Department reassigned pool reserve agents to be utilized during peak times; the FY 19-20 Projection and FY 20-21 Target reflect impacts from COVID-19

DIVISION COMMENTS

- As part of a reorganization performed in FY 2019-20, a total of 35 positions were transferred out of the Planning, Customer Initiatives and Senior Advisor Division to the Water and Waste Water Systems Operation and a total of 172 positions were transferred into the Planning, Customer Initiatives and Senior Advisor Division, three coming from the Office of the Director, two coming from Finance and Administrative Compliance and 167 from the Program Management and Resilience Program Division
- The FY 2020-21 Proposed Budget includes a payment to the Community Action and Human Services Department for landscape maintenance by the Greater Miami Service Corps (\$100,000)
- The Department continues working on an outreach campaign that includes branding of the Department for community recognition and will inform the citizens on water and wastewater services and the Multi-Year Capital Improvements Plan
- The FY 2020-21 Proposed Budget includes a payment to the Human Resources Department for testing and validation services (\$47,000)

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

CAPITAL BUDGET HIGHLIGHTS AND OPERATIONAL IMPACTS

- In FY 2019-20, while developing the FY 2020-21 Proposed Budget and Multi-Year Capital Plan, the Department continued to evaluate all capital projects with an emphasis on all federal, state and local requirements; as a result of the review, project scopes, estimates and the timing of many projects were modified and new projects were added in the amount of \$357.7 million; WASDs capital plan decreased by \$366.3 million due to projects being completed or removed and changes to active projects based on pricing and scope revisions increased the capital plan by \$3.9 million; based on departmental reviews and project modifications, the multi-year capital plan decreased by \$4.7 million from FY 2019-20
- The Department's FY 2020-21 Proposed Budget and Multi-Year Capital Plan is systematic and responsible in addressing regulatory requirements related to aging infrastructure such as pump stations, treatment plants and transmission lines and necessary upgrades (\$7.519 billion); the capital plan addresses \$5.743 billion in wastewater needs, \$1.65 billion in water needs and BBC-GOB Water and Wastewater projects of \$126.838 million
- The Department's FY 2020-21 Proposed Budget and Multi-Year Capital Plan includes the continued implementation of various water system capital projects such as the Hialeah/Preston Water Treatment Plant (\$11.152 million), Alexander Orr Water Treatment Plant (\$12.293 million), Small Diameter Water Main Replacement Program (\$18.459 million) and Water Distribution System (\$22.374 million)
- The Department's FY 2020-21 Proposed Budget and Multi-Year Capital Plan also addresses the continued implementation of various wastewater systems capital projects such as the Pump Station Improvement Program (\$13.983 million), Ocean Outfalls Program (\$75.713 million), Consent Decree (\$210.944 million) and Pump Station Resilience Program (\$15.728 million)
- In FY 2012-13, the Department negotiated a consent agreement with the Federal Environmental Protection Agency (EPA) to address regulatory violations resulting from failing wastewater infrastructure for approximately \$1.6 billion; the agreement was adopted by the Board of County Commissioners on May 21, 2013; on April 9, 2014, the U.S. District Court for the Southern District approved the Consent Decree, replacing and superseding the two existing Consent Decrees issued in the early-mid 1990s; all projects contained in the Consent Decree are currently included in the capital plan, but as projects advance, schedules for completion may need to be modified, with the approval of the EPA; increased debt requirements will lead to future rate adjustments
- In FY 2020-21, the Department is continuing to increase its focus on its Inflow and Infiltration Program to reduce flows into the wastewater system from ground water and rain; this will result in a reduction of conveyed and treated flows at Wastewater treatment plants resulting in capital and operational savings; the FY 2020-21 budget for I&I is \$11.9 million
- For FY 2020-21, the Department streamlined the Outfall Legislation capital project (total \$1.354 billion) to only include the legislation and regulatory component separating out the capacity component project to be programmed as South District Expansion (total \$651.209 million)
- In FY 2019-20, the Department will introduce a resolution that authorizes the Agreement for Capacity Allocation in Phase 1 of the C-51 Reservoir to the Board of County Commissioners, the project will provide a regional alternative water supply and involves construction of a 14,000 acre-foot in-ground reservoir in central Palm Beach County

SELECTED ITEM HIGHLIGHTS AND DETAILS

Line Item Highlights	(dollars in thousands)				
	Actual FY 17-18	Actual FY 18-19	Budget FY 19-20	Projection FY 19-20	Proposed FY 20-21
Advertising	619	968	992	756	899
Fuel	2,913	2,833	3,069	3,545	3,717
Overtime	16,053	15,894	16,082	16,006	16,398
Rent	798	320	838	739	962
Security Services	11,888	11,589	14,000	12,600	13,500
Temporary Services	773	908	1,517	1,008	1,660
Travel and Registration	222	148	402	329	335

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

PROPOSED FEE ADJUSTMENTS FOR SERVICES

Fee Adjustments	Current Fee FY 19-20	Proposed Fee FY 20-21	Dollar Impact FY 20-21
• Domestic Waste Disposal Fee - After Hours Fee (Per 100 gallons)	\$10.00	\$13.10	\$774,000
• Fats, Oil and Grease Fee - After Hours (Per 100 gallons)	\$14.00	\$18.80	\$852,000
• Fats, Oil, Grease (FOG) and Other Waste Disposal Fee (Per 100 gallons)	\$7.00	\$9.40	\$672,187
• Domestic Waste Disposal Fee (Per 100 gallons)	\$5.00	\$6.55	\$716,389
• Wastewater Wholesale Rate per one thousand gallons	\$3.19	\$3.29	\$2,102,000
• Water Wholesale Rate per one thousand gallons	\$1.66	\$1.79	\$-1,941,000
• Wastewater Retail Rate Adjustments	various	various	\$14,380,000
• Water Retail Rate Adjustments	various	various	\$8,877,000

OPERATING FINANCIAL SUMMARY

(dollars in thousands)	Actual FY 17-18	Actual FY 18-19	Budget FY 19-20	Proposed FY 20-21
Revenue Summary				
Carryover	71,638	74,199	78,099	80,060
Miscellaneous Non-Operating	9,566	15,355	14,150	18,237
Other Revenues	30,275	30,033	32,322	32,306
Retail Wastewater	295,564	308,853	317,918	332,298
Retail Water	268,275	277,305	302,479	311,356
Transfer From Other Funds	0	0	1,793	8,618
Wholesale Wastewater	78,425	83,450	76,268	78,370
Wholesale Water	39,310	34,810	30,120	28,179
Loan Repayments	0	10,000	0	0
Total Revenues	793,053	834,005	853,149	889,424
Operating Expenditures Summary				
Salary	181,390	184,175	191,971	194,278
Fringe Benefits	65,547	87,095	75,514	77,678
Contractual Services	70,399	73,424	94,684	90,074
Other Operating	38,798	36,561	41,017	37,180
Charges for County Services	58,057	60,967	77,176	76,354
Capital	112,395	131,891	92,441	97,500
Total Operating Expenditures	526,586	574,113	572,803	573,064
Non-Operating Expenditures Summary				
Transfers	9,843	11,104	0	0
Distribution of Funds In Trust	0	0	0	0
Debt Service	183,672	195,465	200,286	237,099
Depreciation, Amortizations and Depletion	0	0	0	0
Reserve	0	0	80,060	79,261
Total Non-Operating Expenditures	193,515	206,569	280,346	316,360

(dollars in thousands)	Total Funding		Total Positions	
Expenditure By Program	Budget FY 19-20	Proposed FY 20-21	Budget FY 19-20	Proposed FY 20-21
Strategic Area: Neighborhood and Infrastructure				
Office of the Director	4,752	4,747	12	8
Water and Wastewater	379,724	392,724	1,635	1,670
Systems Operations				
Finance and Administrative	52,055	38,081	238	237
Compliance				
Program Management and Resilience Program	46,921	44,751	329	162
Planning, Customer Initiatives and Senior Advisor	89,351	92,761	602	739
Total Operating Expenditures	572,803	573,064	2,816	2,816

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

CAPITAL BUDGET SUMMARY

(dollars in thousands)	PRIOR	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FUTURE	TOTAL
Revenue									
BBC GOB Financing	17,229	16,793	32,344	33,930	17,752	6,640	2,150	0	126,838
Fire Hydrant Fund	3,676	2,500	2,500	2,500	2,500	2,500	2,500	2,500	21,176
Future WASD Revenue Bonds	0	383,748	446,384	490,496	541,398	561,639	412,231	965,861	3,801,757
Miami Springs Water Construction Fund	13,311	600	0	0	0	0	0	0	13,911
State Revolving Loan Wastewater Program	20,000	20,000	0	0	0	0	0	0	40,000
State Revolving Loan Water Program	44,181	1,000	307	1,735	0	0	0	0	47,223
WASD Revenue Bonds Sold	1,363,033	0	0	0	0	0	0	0	1,363,033
Wastewater Connection Charges	69,906	27,315	52,185	43,612	23,477	21,478	7,000	0	244,973
Wastewater Renewal Fund	212,519	47,500	55,500	55,000	55,000	55,000	50,000	50,000	580,519
Wastewater Special Construction Fund	8,157	0	1,000	4,000	4,000	674	0	0	17,831
Water Connection Charges	60,302	790	0	0	0	0	0	0	61,092
Water Renewal and Replacement Fund	257,800	47,501	39,500	40,000	40,000	40,000	45,000	45,000	554,801
Water Special Construction Fund	14,834	500	500	500	500	500	500	0	17,834
WIFIA Loan	628,586	0	0	0	0	0	0	0	628,586
Total:	2,713,534	548,247	630,220	671,773	684,627	688,431	519,381	1,063,361	7,519,574
Expenditures									
Strategic Area: NI									
GOB Water and Wastewater Projects	17,229	16,793	32,344	33,930	17,752	6,640	2,150	0	126,838
Wastewater Projects	1,338,668	499,197	585,808	630,390	687,087	679,173	495,306	827,572	5,743,201
Water Projects	568,217	144,600	153,482	206,781	120,206	117,844	79,471	258,934	1,649,535
Total:	1,924,114	660,590	771,634	871,101	825,045	803,657	576,927	1,086,506	7,519,574

FUNDED CAPITAL PROJECTS

(dollars in thousands)

COMMERCIAL AND INDUSTRIAL CORRIDORS - EXTENSION OF SEWER SYSTEM (BUILDING PROJECT #: 967090 BETTER COMMUNITIES BOND PROGRAM)

DESCRIPTION: Extend sewer service to developed commercial and industrial corridors in Miami-Dade County as per BCC Resolution R-537-14

LOCATION: Various Sites District Located: Countywide
Throughout Miami-Dade County District(s) Served: Countywide



REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
BBC GOB Financing	16,496	16,718	32,319	33,925	17,752	6,640	2,150	0	126,000
TOTAL REVENUES:	16,496	16,718	32,319	33,925	17,752	6,640	2,150	0	126,000
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	15,927	16,537	31,568	33,082	17,409	6,640	2,150	0	123,313
Planning and Design	569	181	751	843	343	0	0	0	2,687
TOTAL EXPENDITURES:	16,496	16,718	32,319	33,925	17,752	6,640	2,150	0	126,000

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

LIFT STATIONS - UPGRADES AND STRUCTURAL IMPROVEMENTS

PROJECT #: 9650371



DESCRIPTION: Repair, replace and upgrade existing lift stations throughout the wastewater system
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Wastewater Renewal Fund	11,242	0	3,500	3,500	3,500	3,500	3,500	3,500	32,242
TOTAL REVENUES:	11,242	0	3,500	3,500	3,500	3,500	3,500	3,500	32,242
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	6,881	2,113	2,800	2,800	2,800	2,800	2,800	2,800	25,794
Land Acquisition/Improvements	602	185	245	245	245	245	245	245	2,257
Major Machinery and Equipment	258	79	105	105	105	105	105	105	967
Planning and Design	860	264	350	350	350	350	350	350	3,224
TOTAL EXPENDITURES:	8,601	2,641	3,500	3,500	3,500	3,500	3,500	3,500	32,242

PEAK FLOW MANAGEMENT - FACILITIES

PROJECT #: 9653371



DESCRIPTION: Evaluate and construct alternatives for peak flow management facilities and associated infrastructure
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	3,681	2,617	1,000	2,130	0	0	5,599	15,027
WASD Revenue Bonds Sold	1,747	0	0	0	0	0	0	0	1,747
Wastewater Connection Charges	1,893	693	0	0	0	0	0	0	2,586
TOTAL REVENUES:	3,640	4,374	2,617	1,000	2,130	0	0	5,599	19,360
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	2,184	2,625	1,570	600	1,278	0	0	3,359	11,616
Planning and Design	1,456	1,749	1,047	400	852	0	0	2,240	7,744
TOTAL EXPENDITURES:	3,640	4,374	2,617	1,000	2,130	0	0	5,599	19,360

PEAK FLOW MANAGEMENT - FLOW REDUCTION PROGRAM (FRP)

PROJECT #: 9650201



DESCRIPTION: Implement a Flow Reduction Program which is comprised of two main components: Inflow and Infiltration reduction and Pump Station Optimization by implementing real time controls at pump stations
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	11,900	14,200	15,500	15,500	15,000	13,500	168,664	254,264
WASD Revenue Bonds Sold	61,077	0	0	0	0	0	0	0	61,077
TOTAL REVENUES:	61,077	11,900	14,200	15,500	15,500	15,000	13,500	168,664	315,341
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	61,077	11,900	14,200	15,500	15,500	15,000	13,500	168,664	315,341
TOTAL EXPENDITURES:	61,077	11,900	14,200	15,500	15,500	15,000	13,500	168,664	315,341

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

PEAK FLOW MANAGEMENT - SOUTH DISTRICT EXPANSION

PROJECT #: 200000580

DESCRIPTION: Redirect flows to regional plants and account for peak flows through 2035
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	7,649	1,127	1,873	0	22,834	43,500	101,217	178,200
State Revolving Loan Wastewater Program	10,000	0	0	0	0	0	0	0	10,000
WASD Revenue Bonds Sold	18,274	0	0	0	0	0	0	0	18,274
Wastewater Connection Charges	55,148	15,946	31,472	23,985	7,000	5,000	7,000	0	145,551
Wastewater Special Construction Fund	1	0	0	0	0	0	0	0	1
WIFIA Loan	299,183	0	0	0	0	0	0	0	299,183
TOTAL REVENUES:	382,606	23,595	32,599	25,858	7,000	27,834	50,500	101,217	651,209
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	95,147	35,675	62,984	77,119	75,559	81,700	88,152	121,875	638,211
Planning and Design	1,915	769	1,285	1,574	1,542	1,668	1,758	2,487	12,998
TOTAL EXPENDITURES:	97,062	36,444	64,269	78,693	77,101	83,368	89,910	124,362	651,209

PUMP STATIONS - GENERATORS AND MISCELLANEOUS UPGRADES

PROJECT #: 9652002

DESCRIPTION: Install emergency generators and construct miscellaneous upgrades at various wastewater pump stations
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	3,080	3,456	4,802	5,600	5,046	2,850	300	25,134
WASD Revenue Bonds Sold	2,346	0	0	0	0	0	0	0	2,346
TOTAL REVENUES:	2,346	3,080	3,456	4,802	5,600	5,046	2,850	300	27,480
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	2,346	3,080	3,456	4,802	5,600	5,046	2,850	300	27,480
TOTAL EXPENDITURES:	2,346	3,080	3,456	4,802	5,600	5,046	2,850	300	27,480

PUMP STATIONS - IMPROVEMENT PROGRAM

PROJECT #: 9651071

DESCRIPTION: Upgrade pump stations systemwide to meet departmental forecasted demands
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	8,387	5,863	569	0	0	0	29,807	44,626
WASD Revenue Bonds Sold	103,504	0	0	0	0	0	0	0	103,504
Wastewater Connection Charges	5,168	2,500	0	0	0	0	0	0	7,668
TOTAL REVENUES:	108,672	10,887	5,863	569	0	0	0	29,807	155,798
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	89,739	11,886	4,984	484	0	0	0	25,336	132,429
Planning and Design	15,837	2,097	879	85	0	0	0	4,471	23,369
TOTAL EXPENDITURES:	105,576	13,983	5,863	569	0	0	0	29,807	155,798

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

PUMP STATIONS - MIAMI SPRINGS UPGRADES (BUILDING BETTER COMMUNITIES BOND PROGRAM) **PROJECT #: 967730**

DESCRIPTION: Upgrade electrical control panels, pumps and the proprietary supervisory control data acquisition system
 LOCATION: Various Sites District Located: 6
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
BBC GOB Financing	733	75	25	5	0	0	0	0	838
TOTAL REVENUES:	733	75	25	5	0	0	0	0	838
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	733	75	25	5	0	0	0	0	838
TOTAL EXPENDITURES:	733	75	25	5	0	0	0	0	838

PUMP STATIONS - RESILIENCE PROGRAM (PSRP) **PROJECT #: 2000000784**

DESCRIPTION: Implement a pump station resiliency program to improve pump stations systemwide
 LOCATION: Systemwide District Located: Countywide
 Various Sites District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	15,528	25,031	38,523	56,367	50,686	38,193	32,192	256,520
WASD Revenue Bonds Sold	15,869	0	0	0	0	0	0	0	15,869
Wastewater Connection Charges	513	0	0	0	0	0	0	0	513
TOTAL REVENUES:	16,382	15,528	25,031	38,523	56,367	50,686	38,193	32,192	272,902
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	12,460	12,111	19,274	29,663	43,403	39,028	29,408	24,788	210,135
Planning and Design	3,722	3,617	5,757	8,860	12,964	11,658	8,785	7,404	62,767
TOTAL EXPENDITURES:	16,182	15,728	25,031	38,523	56,367	50,686	38,193	32,192	272,902

PUMP STATIONS - SEWER SYSTEMS CONSENT DECREE PROJECTS **PROJECT #: 964440**

DESCRIPTION: Design, construct and rehabilitate pump stations infrastructure systems to comply with the Federal EPA Consent Decree
 LOCATION: Various Sites District Located: Countywide
 Throughout Miami-Dade County District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	8,961	2,021	0	0	0	0	0	10,982
WASD Revenue Bonds Sold	100,111	0	0	0	0	0	0	0	100,111
Wastewater Connection Charges	1,914	0	0	0	0	0	0	0	1,914
TOTAL REVENUES:	102,025	8,961	2,021	0	0	0	0	0	113,007
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	96,924	8,513	1,920	0	0	0	0	0	107,357
Planning and Design	5,101	448	101	0	0	0	0	0	5,650
TOTAL EXPENDITURES:	102,025	8,961	2,021	0	0	0	0	0	113,007

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

SANITARY SEWER SYSTEM - EXTENSION

PROJECT #: 9653281



DESCRIPTION: Extend sewer system lines to include the existing sanitary sewer needs assessment
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
WASD Revenue Bonds Sold	167	0	0	0	0	0	0	0	167
Wastewater Renewal Fund	25,348	2,310	3,000	3,500	3,500	3,500	3,500	3,500	48,158
TOTAL REVENUES:	25,515	2,310	3,000	3,500	3,500	3,500	3,500	3,500	48,325
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	20,426	6,286	2,880	3,360	3,360	3,360	3,360	3,360	46,392
Planning and Design	851	262	120	140	140	140	140	140	1,933
TOTAL EXPENDITURES:	21,277	6,548	3,000	3,500	3,500	3,500	3,500	3,500	48,325

SANITARY SEWER SYSTEM - IMPROVEMENTS

PROJECT #: 9650221



DESCRIPTION: Provide sanitary sewer system improvements funded from the special construction fund including special taxing districts
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,186	0	0	0	0	0	0	1,186
WASD Revenue Bonds Sold	5,917	0	0	0	0	0	0	0	5,917
Wastewater Special Construction Fund	3,543	0	0	0	0	0	0	0	3,543
TOTAL REVENUES:	9,460	1,186	0	0	0	0	0	0	10,646
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	6,460	1,686	500	500	500	500	500	0	10,646
TOTAL EXPENDITURES:	6,460	1,686	500	500	500	500	500	0	10,646

WASTEWATER - CENTRAL MIAMI-DADE TRANSMISSION MAINS AND PUMP STATION IMPROVEMENTS

PROJECT #: 9650241



DESCRIPTION: Construct a force main crossing Bear Cut, a force main in Flagler St from SW 37 Ave to SW 10 Ave and a force main from Miami Beach to the Central District Wastewater Treatment Plant
 LOCATION: Wastewater System - Central District Area District Located: Systemwide
 City of Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,900	3,502	1,000	0	0	0	0	7,402
WASD Revenue Bonds Sold	18,763	0	0	0	0	0	0	0	18,763
TOTAL REVENUES:	18,763	2,900	3,502	1,000	0	0	0	0	26,165
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	18,763	2,900	3,502	1,000	0	0	0	0	26,165
TOTAL EXPENDITURES:	18,763	2,900	3,502	1,000	0	0	0	0	26,165

Estimated Annual Operating Impact will begin in FY 2020-21 in the amount of \$2,253,000 and includes 0 FTE(s)

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS

PROJECT #: 968150



DESCRIPTION: Design, construct and rehabilitate collection and transmission infrastructure lines to comply with the Federal EPA Consent Decree

LOCATION: Various Sites
Throughout Miami-Dade County

District Located: Countywide
District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	581	500	1,040	1,411	0	0	0	3,532
WASD Revenue Bonds Sold	105,471	0	0	0	0	0	0	0	105,471
TOTAL REVENUES:	105,471	581	500	1,040	1,411	0	0	0	109,003
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	104,416	575	495	1,030	1,397	0	0	0	107,913
Planning and Design	1,055	6	5	10	14	0	0	0	1,090
TOTAL EXPENDITURES:	105,471	581	500	1,040	1,411	0	0	0	109,003

WASTEWATER - EQUIPMENT

PROJECT #: 9650301



DESCRIPTION: Acquire equipment and associated wastewater system capital support materials as needed

LOCATION: Systemwide
Various Sites

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Wastewater Renewal Fund	60,328	0	16,000	15,000	15,000	15,000	15,000	15,000	151,328
TOTAL REVENUES:	60,328	0	16,000	15,000	15,000	15,000	15,000	15,000	151,328
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Furniture Fixtures and Equipment	44,833	12,033	19,462	15,000	15,000	15,000	15,000	15,000	151,328
TOTAL EXPENDITURES:	44,833	12,033	19,462	15,000	15,000	15,000	15,000	15,000	151,328

WASTEWATER - NORTH MIAMI-DADE TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS

PROJECT #: 9652101



DESCRIPTION: Provide infrastructure improvements to pump stations to increase system flexibility

LOCATION: Wastewater System - North District Area
Various Sites

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	19,523	23,413	26,473	22,500	19,000	11,500	37,956	160,365
WASD Revenue Bonds Sold	7,452	0	0	0	0	0	0	0	7,452
Wastewater Connection Charges	1,307	2,591	6,032	2,070	750	2,478	0	0	15,228
TOTAL REVENUES:	8,759	22,114	29,445	28,543	23,250	21,478	11,500	37,956	183,045
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	8,321	21,008	27,973	27,116	22,088	20,404	10,925	36,058	173,893
Planning and Design	438	1,106	1,472	1,427	1,162	1,074	575	1,898	9,152
TOTAL EXPENDITURES:	8,759	22,114	29,445	28,543	23,250	21,478	11,500	37,956	183,045

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WASTEWATER - OUTFALL LEGISLATION

PROJECT #: 962670



DESCRIPTION: Eliminate outfall flows to the ocean
 LOCATION: Systemwide
 Various Sites

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	26,369	40,812	81,225	190,229	277,826	199,948	182,384	998,793
State Revolving Loan Wastewater Program	10,000	20,000	0	0	0	0	0	0	30,000
WASD Revenue Bonds Sold	76,783	0	0	0	0	0	0	0	76,783
Wastewater Connection Charges	3,472	2,092	11,462	12,543	14,000	14,000	0	0	57,569
Wastewater Special Construction Fund	45	0	1,000	4,000	4,000	674	0	0	9,719
WIFIA Loan	181,612	0	0	0	0	0	0	0	181,612
TOTAL REVENUES:	271,912	48,461	53,274	97,768	208,229	292,500	199,948	182,384	1,354,476
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	97,080	71,926	100,709	122,744	220,836	301,039	199,154	173,265	1,286,753
Land Acquisition/Improvements	1,021	758	1,060	1,291	2,324	3,169	2,097	1,824	13,544
Planning and Design	4,089	3,029	4,239	5,168	9,298	12,675	8,386	7,295	54,179
TOTAL EXPENDITURES:	102,190	75,713	106,008	129,203	232,458	316,883	209,637	182,384	1,354,476

WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS

PROJECT #: 968750



DESCRIPTION: Replace and/or install new wastewater pipelines in areas requiring service improvements
 LOCATION: Various Sites
 Various Sites

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Wastewater Renewal Fund	8,666	0	3,000	3,000	3,000	3,000	3,000	3,000	26,666
TOTAL REVENUES:	8,666	0	3,000	3,000	3,000	3,000	3,000	3,000	26,666
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	5,100	2,700	2,700	2,700	2,700	2,700	2,700	2,700	24,000
Major Machinery and Equipment	283	150	150	150	150	150	150	150	1,333
Planning and Design	283	150	150	150	150	150	150	150	1,333
TOTAL EXPENDITURES:	5,666	3,000	3,000	3,000	3,000	3,000	3,000	3,000	26,666

WASTEWATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES

PROJECT #: 9653201



DESCRIPTION: Construct and/or renovate various regional general maintenance centers, office facilities and storage warehouses
 LOCATION: Systemwide
 Various Sites

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	300	300	2,500	3,000	2,751	0	114,485	123,336
WASD Revenue Bonds Sold	447	0	0	0	0	0	0	0	447
Wastewater Renewal Fund	4,566	0	0	0	0	0	0	0	4,566
TOTAL REVENUES:	5,013	300	300	2,500	3,000	2,751	0	114,485	128,349
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	3,131	1,757	276	2,300	2,760	2,531	0	105,326	118,081
Planning and Design	272	153	24	200	240	220	0	9,159	10,268
TOTAL EXPENDITURES:	3,403	1,910	300	2,500	3,000	2,751	0	114,485	128,349

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WASTEWATER - SOUTH DISTRICT TRANSMISSION MAINS AND PUMP STATIONS

PROJECT #: 9651061



IMPROVEMENTS

DESCRIPTION: Provide piping improvements to pump station number 536 and force main upgrade in SW 117 Ave
 LOCATION: Wastewater System - South District Area District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	100	2,299	7,500	10,572	0	0	0	20,471
WASD Revenue Bonds Sold	50	0	0	0	0	0	0	0	50
TOTAL REVENUES:	50	100	2,299	7,500	10,572	0	0	0	20,521
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	45	90	2,069	6,750	9,515	0	0	0	18,469
Land Acquisition/Improvements	1	2	46	150	211	0	0	0	410
Planning and Design	4	8	184	600	846	0	0	0	1,642
TOTAL EXPENDITURES:	50	100	2,299	7,500	10,572	0	0	0	20,521

WASTEWATER - SYSTEM MAINTENANCE AND UPGRADES

PROJECT #: 9650361



DESCRIPTION: Maintain and develop existing wastewater system facilities, structures and equipment
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Wastewater Renewal Fund	39,305	24,245	20,000	20,000	20,000	20,000	15,000	15,000	173,550
TOTAL REVENUES:	39,305	24,245	20,000	20,000	20,000	20,000	15,000	15,000	173,550
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	7,860	4,349	4,500	4,000	4,000	4,000	3,000	3,000	34,709
Major Machinery and Equipment	31,445	17,396	18,000	16,000	16,000	16,000	12,000	12,000	138,841
TOTAL EXPENDITURES:	39,305	21,745	22,500	20,000	20,000	20,000	15,000	15,000	173,550

WASTEWATER - TELEMETERING SYSTEM

PROJECT #: 9652481



DESCRIPTION: Install a computer system to monitor and control wastewater flows and pressures at various pump stations
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Wastewater Renewal Fund	1,160	452	1,000	1,000	1,000	1,000	1,000	1,000	7,612
TOTAL REVENUES:	1,160	452	1,000	1,000	1,000	1,000	1,000	1,000	7,612
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	693	798	1,121	1,000	1,000	1,000	1,000	1,000	7,612
TOTAL EXPENDITURES:	693	798	1,121	1,000	1,000	1,000	1,000	1,000	7,612

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WASTEWATER TREATMENT PLANT - CENTRAL DISTRICT UPGRADES

PROJECT #: 9653421



DESCRIPTION: Construct digester improvements, digested sludge holding tanks, electrical improvements and outfall rehabilitation; install a new gas pipeline and a new flushing water line, construct a sludge handling facility and provide various plant upgrades and rehabilitation to include pump stations 1 and 2

LOCATION: Virginia Key District Located: 7
 City of Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,399	6,435	40,676	23,047	21,413	22,269	23,278	141,517
WASD Revenue Bonds Sold	1,735	0	0	0	0	0	0	0	1,735
WIFIA Loan	59,405	0	0	0	0	0	0	0	59,405
TOTAL REVENUES:	61,140	4,399	6,435	40,676	23,047	21,413	22,269	23,278	202,657
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	4,515	6,158	24,759	63,409	27,360	19,914	20,710	21,649	188,474
Planning and Design	339	463	1,863	4,772	2,059	1,499	1,559	1,629	14,183
TOTAL EXPENDITURES:	4,854	6,621	26,622	68,181	29,419	21,413	22,269	23,278	202,657

WASTEWATER TREATMENT PLANT - NORTH DISTRICT UPGRADES

PROJECT #: 9653411



DESCRIPTION: Construct a chlorine improvement process, replace sluice gates in the pre-treatment bar screen room and provide various plant upgrades and rehabilitation

LOCATION: 2575 NE 151 St District Located: 4
 North Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,719	11,500	12,500	1,136	1,800	18,324	13,000	60,979
WASD Revenue Bonds Sold	7,795	0	0	0	0	0	0	0	7,795
Wastewater Renewal Fund	875	0	0	0	0	0	0	0	875
WIFIA Loan	88,386	0	0	0	0	0	0	0	88,386
TOTAL REVENUES:	97,056	2,719	11,500	12,500	1,136	1,800	18,324	13,000	158,035
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	9,720	5,980	12,013	23,924	32,795	29,296	24,304	12,610	150,642
Planning and Design	344	294	400	1,128	2,057	1,813	967	390	7,393
TOTAL EXPENDITURES:	10,064	6,274	12,413	25,052	34,852	31,109	25,271	13,000	158,035

WASTEWATER TREATMENT PLANT - SOUTH DISTRICT EXPANSION (PHASE 3)

PROJECT #: 9655481



DESCRIPTION: Install emergency generators and expand the South District Wastewater Plant and injection wells

LOCATION: 8950 SW 232 St District Located: 8
 Unincorporated Miami-Dade County District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,966	2,474	0	0	0	0	0	7,440
WASD Revenue Bonds Sold	222	0	0	0	0	0	0	0	222
Wastewater Connection Charges	391	0	0	0	0	0	0	0	391
Wastewater Renewal Fund	725	0	0	0	0	0	0	0	725
TOTAL REVENUES:	1,338	4,966	2,474	0	0	0	0	0	8,778
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	1,338	4,966	2,474	0	0	0	0	0	8,778
TOTAL EXPENDITURES:	1,338	4,966	2,474	0	0	0	0	0	8,778

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WASTEWATER TREATMENT PLANT - SOUTH DISTRICT UPGRADES

PROJECT #: 9653401



DESCRIPTION: Provide plant process infrastructure improvements to include injection and monitoring wells, installation of emergency generators, acquiring a land buffer, construction of a landfill gas pipeline, installation of co-generation units and construction of sludge handling facilities

LOCATION: 8950 SW 232 St District Located: 8
 Unincorporated Miami-Dade County District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,007	6,301	8,301	11,069	2,000	1,757	32,421	62,856
WASD Revenue Bonds Sold	972	0	0	0	0	0	0	0	972
Wastewater Connection Charges	100	493	0	0	0	0	0	0	593
TOTAL REVENUES:	1,072	1,500	6,301	8,301	11,069	2,000	1,757	32,421	64,421
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	998	1,400	5,860	7,720	10,294	1,860	1,634	30,152	59,918
Planning and Design	74	100	441	581	775	140	123	2,269	4,503
TOTAL EXPENDITURES:	1,072	1,500	6,301	8,301	11,069	2,000	1,757	32,421	64,421

WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS

PROJECT #: 964120



DESCRIPTION: Design, construct and rehabilitate infrastructure improvements at wastewater treatment plants to comply with the Federal EPA Consent Decree

LOCATION: Various Sites District Located: Countywide
 Throughout Miami-Dade County District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	186,231	203,013	159,469	127,131	73,939	29,919	13,124	792,826
WASD Revenue Bonds Sold	532,492	0	0	0	0	0	0	0	532,492
Wastewater Connection Charges	0	3,000	3,219	5,014	1,727	0	0	0	12,960
Wastewater Renewal Fund	12,018	0	0	0	0	0	0	0	12,018
TOTAL REVENUES:	544,510	189,231	206,232	164,483	128,858	73,939	29,919	13,124	1,350,296
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	496,658	200,367	195,889	156,209	122,397	70,242	28,423	12,468	1,282,653
Planning and Design	26,139	10,577	10,343	8,274	6,461	3,697	1,496	656	67,643
TOTAL EXPENDITURES:	522,797	210,944	206,232	164,483	128,858	73,939	29,919	13,124	1,350,296

WASTEWATER TREATMENT PLANTS - MISCELLANEOUS UPGRADES

PROJECT #: 9652061



DESCRIPTION: Upgrade wastewater treatment plants to meet regulatory requirements

LOCATION: Wastewater Treatment Plants District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,160	1,000	0	0	0	0	0	3,160
WASD Revenue Bonds Sold	1,482	0	0	0	0	0	0	0	1,482
TOTAL REVENUES:	1,482	2,160	1,000	0	0	0	0	0	4,642
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	1,393	2,030	940	0	0	0	0	0	4,363
Planning and Design	89	130	60	0	0	0	0	0	279
TOTAL EXPENDITURES:	1,482	2,160	1,000	0	0	0	0	0	4,642

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WASTEWATER TREATMENT PLANTS - REPLACEMENT AND RENOVATION

PROJECT #: 9653261

DESCRIPTION: Renovate and replace wastewater treatment plant facilities and structures within plant sites
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Wastewater Renewal Fund	48,286	20,493	9,000	9,000	9,000	9,000	9,000	9,000	122,779
Wastewater Special Construction Fund	4,568	0	0	0	0	0	0	0	4,568
TOTAL REVENUES:	52,854	20,493	9,000	9,000	9,000	9,000	9,000	9,000	127,347
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	41,498	19,468	17,264	8,550	8,550	8,550	8,550	8,550	120,980
Major Machinery and Equipment	437	205	182	90	90	90	90	90	1,274
Planning and Design	1,747	820	726	360	360	360	360	360	5,093
TOTAL EXPENDITURES:	43,682	20,493	18,172	9,000	9,000	9,000	9,000	9,000	127,347

WATER - CENTRAL MIAMI-DADE TRANSMISSION MAINS IMPROVEMENTS

PROJECT #: 9654041

DESCRIPTION: Replace various low-pressure water mains and install a 20-inch water main at railroad crossings via microtunneling method
 LOCATION: Central Miami-Dade County Area District Located: Systemwide
 City of Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	254	700	1,000	4,220	4,271	0	10,445
Water Renewal and Replacement Fund	266	0	0	0	0	0	0	0	266
TOTAL REVENUES:	266	0	254	700	1,000	4,220	4,271	0	10,711
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	258	0	241	665	950	4,009	4,058	0	10,181
Planning and Design	8	0	13	35	50	211	213	0	530
TOTAL EXPENDITURES:	266	0	254	700	1,000	4,220	4,271	0	10,711

WATER - DISTRIBUTION SYSTEM EXTENSION ENHANCEMENTS

PROJECT #: 9653311

DESCRIPTION: Install various water mains throughout the distribution system
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	11,322	11,092	5,297	0	0	0	0	27,711
WASD Revenue Bonds Sold	50,163	0	0	0	0	0	0	0	50,163
Water Renewal and Replacement Fund	39,906	10,552	6,500	6,500	6,500	6,500	6,500	6,500	89,458
Water Special Construction Fund	12,681	0	0	0	0	0	0	0	12,681
TOTAL REVENUES:	102,750	21,874	17,592	11,797	6,500	6,500	6,500	6,500	180,013
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	91,422	21,702	22,400	11,928	6,790	6,790	7,275	6,305	174,612
Planning and Design	2,828	672	692	369	210	210	225	195	5,401
TOTAL EXPENDITURES:	94,250	22,374	23,092	12,297	7,000	7,000	7,500	6,500	180,013

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WATER - EQUIPMENT

PROJECT #: 9650141



DESCRIPTION: Acquire equipment and associated water system capital support materials
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,500	3,500	3,500	3,500	3,500	3,500	98,500	118,500
WASD Revenue Bonds Sold	1,500	0	0	0	0	0	0	0	1,500
Water Renewal and Replacement Fund	34,009	6,867	8,000	8,000	8,000	8,000	8,000	8,000	88,876
TOTAL REVENUES:	35,509	9,367	11,500	11,500	11,500	11,500	11,500	106,500	208,876
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Furniture Fixtures and Equipment	35,009	9,367	12,000	11,500	11,500	11,500	11,500	106,500	208,876
TOTAL EXPENDITURES:	35,009	9,367	12,000	11,500	11,500	11,500	11,500	106,500	208,876

WATER - FIRE HYDRANT INSTALLATION

PROJECT #: 9653461



DESCRIPTION: Install fire hydrants and construct related system infrastructure improvements
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Fire Hydrant Fund	3,676	2,500	2,500	2,500	2,500	2,500	2,500	2,500	21,176
Water Renewal and Replacement Fund	1,459	0	0	0	0	0	0	0	1,459
TOTAL REVENUES:	5,135	2,500	2,500	2,500	2,500	2,500	2,500	2,500	22,635
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	5,135	2,500	2,500	2,500	2,500	2,500	2,500	2,500	22,635
TOTAL EXPENDITURES:	5,135	2,500	2,500	2,500	2,500	2,500	2,500	2,500	22,635

WATER - MAIN EXTENSIONS

PROJECT #: 9651051



DESCRIPTION: Construct water main extensions funded from the special construction fund including special taxing districts
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Water Special Construction Fund	1,058	500	500	500	500	500	500	0	4,058
TOTAL REVENUES:	1,058	500	500	500	500	500	500	0	4,058
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	762	360	360	360	360	360	360	0	2,922
Planning and Design	296	140	140	140	140	140	140	0	1,136
TOTAL EXPENDITURES:	1,058	500	500	500	500	500	500	0	4,058

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WATER - MIAMI SPRINGS CONSTRUCTION FUND

PROJECT #: 965450

DESCRIPTION: Repair and/or replace water transmission pipes in Miami Springs
 LOCATION: Miami Springs District Located: 6
 Miami Springs District(s) Served: 6

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Miami Springs Water Construction Fund	13,311	600	0	0	0	0	0	0	13,911
TOTAL REVENUES:	13,311	600	0	0	0	0	0	0	13,911
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	13,311	600	0	0	0	0	0	0	13,911
TOTAL EXPENDITURES:	13,311	600	0	0	0	0	0	0	13,911

WATER - NORTH MIAMI-DADE TRANSMISSION MAIN IMPROVEMENTS

PROJECT #: 9654031

DESCRIPTION: Install 36-inch water main along NW 87 Ave to improve transmission capabilities in the north central area of the county and a 48-inch water main connection to the Carol City tank
 LOCATION: North Miami-Dade County Area District Located: Systemwide
 Miami Gardens District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,000	6,912	7,152	14,551	9,386	5,000	0	47,001
WASD Revenue Bonds Sold	1,436	0	0	0	0	0	0	0	1,436
Water Connection Charges	26,958	288	0	0	0	0	0	0	27,246
Water Renewal and Replacement Fund	79	0	0	0	0	0	0	0	79
TOTAL REVENUES:	28,473	4,288	6,912	7,152	14,551	9,386	5,000	0	75,762
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	27,335	4,116	6,636	6,866	13,969	9,011	4,800	0	72,733
Planning and Design	1,138	172	276	286	582	375	200	0	3,029
TOTAL EXPENDITURES:	28,473	4,288	6,912	7,152	14,551	9,386	5,000	0	75,762

WATER - PIPES AND INFRASTRUCTURE PROJECTS

PROJECT #: 967190

DESCRIPTION: Replace pipes and provide various infrastructure improvements
 LOCATION: Countywide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	15,111	1,786	0	0	0	0	0	16,897
WASD Revenue Bonds Sold	11,162	0	0	0	0	0	0	0	11,162
Water Renewal and Replacement Fund	62,041	3,000	3,000	3,000	3,000	3,000	3,000	3,000	83,041
Water Special Construction Fund	1,095	0	0	0	0	0	0	0	1,095
TOTAL REVENUES:	74,298	18,111	4,786	3,000	3,000	3,000	3,000	3,000	112,195
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	72,812	17,749	4,690	2,940	2,940	2,940	2,940	2,940	109,951
Planning and Design	1,486	362	96	60	60	60	60	60	2,244
TOTAL EXPENDITURES:	74,298	18,111	4,786	3,000	3,000	3,000	3,000	3,000	112,195

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES

PROJECT #: 9650271



DESCRIPTION: Construct regional general maintenance centers, office facilities and storage warehouses
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	0	0	0	0	48,018	48,018
WASD Revenue Bonds Sold	396	0	0	0	0	0	0	0	396
TOTAL REVENUES:	396	0	0	0	0	0	0	48,018	48,414
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	396	0	0	0	0	0	0	48,018	48,414
TOTAL EXPENDITURES:	396	0	0	0	0	0	0	48,018	48,414

WATER - SAFE DRINKING WATER ACT MODIFICATIONS

PROJECT #: 9654061



DESCRIPTION: Modify water treatment to comply with Surface Water Treatment and Disinfectant/Disinfection Byproduct (D-DBP) regulations
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	5,360	8,475	7,100	3,500	1,500	0	43,250	69,185
WASD Revenue Bonds Sold	51,640	0	0	0	0	0	0	0	51,640
Water Connection Charges	25,647	502	0	0	0	0	0	0	26,149
Water Renewal and Replacement	2,620	0	0	0	0	0	0	0	2,620
Fund									
TOTAL REVENUES:	79,907	5,862	8,475	7,100	3,500	1,500	0	43,250	149,594
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	9,206	6,221	7,797	75,532	3,220	1,380	0	39,790	143,146
Planning and Design	801	541	678	568	280	120	0	3,460	6,448
TOTAL EXPENDITURES:	10,007	6,762	8,475	76,100	3,500	1,500	0	43,250	149,594

WATER - SMALL DIAMETER WATER MAINS REPLACEMENT PROGRAM

PROJECT #: 200000072



DESCRIPTION: Design, construct and replace undersized water mains to improve fire flows, pressure to homes and quality of water
 LOCATION: Systemwide District Located: Countywide
 Throughout Miami-Dade County District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	7,959	22,119	20,123	20,752	17,500	17,700	21,666	127,819
State Revolving Loan Water Program	44,181	1,000	307	1,735	0	0	0	0	47,223
WASD Revenue Bonds Sold	90,395	0	0	0	0	0	0	0	90,395
Water Connection Charges	2,000	0	0	0	0	0	0	0	2,000
Water Renewal and Replacement	31,672	0	0	0	0	0	5,000	5,000	41,672
Fund									
TOTAL REVENUES:	168,248	8,959	22,426	21,858	20,752	17,500	22,700	26,666	309,109
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	132,541	17,636	25,598	25,616	24,564	21,475	21,665	25,433	294,528
Planning and Design	6,780	823	1,254	1,243	1,188	1,025	1,035	1,233	14,581
TOTAL EXPENDITURES:	139,321	18,459	26,852	26,859	25,752	22,500	22,700	26,666	309,109

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WATER - SOUTH MIAMI-DADE TRANSMISSION MAINS IMPROVEMENTS

PROJECT #: 9650021



DESCRIPTION: Construct various water transmission mains to service the south Miami-Dade County area after the new South Miami Heights water treatment plant is in service

LOCATION: South Miami-Dade County District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	379	3,735	149	0	0	0	0	4,263
WASD Revenue Bonds Sold	900	0	0	0	0	0	0	0	900
TOTAL REVENUES:	900	379	3,735	149	0	0	0	0	5,163
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	374	689	3,100	124	0	0	0	0	4,287
Planning and Design	76	140	635	25	0	0	0	0	876
TOTAL EXPENDITURES:	450	829	3,735	149	0	0	0	0	5,163

WATER - SYSTEM MAINTENANCE AND UPGRADES

PROJECT #: 9650181



DESCRIPTION: Develop and maintain existing water system facilities, structures and equipment

LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Water Renewal and Replacement Fund	41,053	16,886	19,304	20,000	20,000	20,000	20,000	20,000	177,243
TOTAL REVENUES:	41,053	16,886	19,304	20,000	20,000	20,000	20,000	20,000	177,243
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	31,542	22,555	20,056	19,200	19,200	19,200	19,200	19,200	170,153
Planning and Design	1,314	940	836	800	800	800	800	800	7,090
TOTAL EXPENDITURES:	32,856	23,495	20,892	20,000	20,000	20,000	20,000	20,000	177,243

WATER - TELEMETERING SYSTEM ENHANCEMENTS

PROJECT #: 9656780



DESCRIPTION: Acquire and install a centralized computer system at water treatment plants and wellfields

LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Water Renewal and Replacement Fund	1,287	898	1,196	1,000	1,000	1,000	1,000	1,000	8,381
TOTAL REVENUES:	1,287	898	1,196	1,000	1,000	1,000	1,000	1,000	8,381
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	527	413	615	460	460	460	460	460	3,855
Major Machinery and Equipment	619	485	722	540	540	540	540	540	4,526
TOTAL EXPENDITURES:	1,146	898	1,337	1,000	1,000	1,000	1,000	1,000	8,381

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WATER TREATMENT PLANT - ALEXANDER ORR, JR. EXPANSION

PROJECT #: 9650031



DESCRIPTION: Construct high service pumps, a 48-inch finished water line, install a new generator and construct chlorine facilities

LOCATION: 6800 SW 87 Ave District Located: 7
Unincorporated Miami-Dade County District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	12,293	20,780	30,862	24,903	22,938	0	0	111,776
WASD Revenue Bonds Sold	29,356	0	0	0	0	0	0	0	29,356
Water Renewal and Replacement	7,279	0	0	0	0	0	0	0	7,279
Fund									
TOTAL REVENUES:	36,635	12,293	20,780	30,862	24,903	22,938	0	0	148,411
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	28,299	11,679	19,741	29,319	23,658	21,791	0	0	134,487
Planning and Design	8,336	614	1,039	1,543	1,245	1,147	0	0	13,924
TOTAL EXPENDITURES:	36,635	12,293	20,780	30,862	24,903	22,938	0	0	148,411

WATER TREATMENT PLANT - AUTOMATION

PROJECT #: 963110



DESCRIPTION: Construct facilities and install equipment to automate functions at water treatment plants

LOCATION: Systemwide District Located: Systemwide
Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
WASD Revenue Bonds Sold	2,247	0	0	0	0	0	0	0	2,247
TOTAL REVENUES:	2,247	0	0	0	0	0	0	0	2,247
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	877	741	0	0	0	0	0	0	1,618
Planning and Design	341	288	0	0	0	0	0	0	629
TOTAL EXPENDITURES:	1,218	1,029	0	0	0	0	0	0	2,247

WATER TREATMENT PLANT - FLORIDIAN REVERSE OSMOSIS

PROJECT #: 966620



DESCRIPTION: Construct a 10-million gallons per day (MGD) Reverse Osmosis Treatment Plant using Upper Floridian Aquifer; the jointly owned plant will equally serve the City of Hialeah and WASD service areas; total cost of \$160 million, includes contribution and expenditures of \$80 million from City of Hialeah

LOCATION: 700 W 2 Ave District Located: 6
Hialeah District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,000	800	0	0	0	0	0	1,800
WASD Revenue Bonds Sold	647	0	0	0	0	0	0	0	647
Water Connection Charges	5,697	0	0	0	0	0	0	0	5,697
Water Renewal and Replacement	121	0	0	0	0	0	0	0	121
Fund									
TOTAL REVENUES:	6,465	1,000	800	0	0	0	0	0	8,265
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	6,465	970	776	0	0	0	0	0	8,211
Planning and Design	0	30	24	0	0	0	0	0	54
TOTAL EXPENDITURES:	6,465	1,000	800	0	0	0	0	0	8,265

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

WATER TREATMENT PLANT - HIALEAH/PRESTON IMPROVEMENTS

PROJECT #: 9650041



DESCRIPTION: Construct pump station east of the reservoir outside the transmission loop; construct five-mega-gal elevated remote storage, new laboratory and filter backwash water tank; install two emergency generators; construct chlorine facilities; and provide various upgrades to plant and remote storage

LOCATION: 700 W 2 Ave and 1100 W 2 Ave District Located: 6
 Hialeah District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	10,552	9,763	10,662	1,500	0	0	0	32,477
WASD Revenue Bonds Sold	26,362	0	0	0	0	0	0	0	26,362
TOTAL REVENUES:	26,362	10,552	9,763	10,662	1,500	0	0	0	58,839
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	24,216	10,483	9,177	10,022	1,410	0	0	0	55,308
Planning and Design	1,546	669	586	640	90	0	0	0	3,531
TOTAL EXPENDITURES:	25,762	11,152	9,763	10,662	1,500	0	0	0	58,839

Estimated Annual Operating Impact will begin in FY 2022-23 in the amount of \$15,000,000 and includes 0 FTE(s)

WATER TREATMENT PLANT - REPLACEMENT AND RENOVATIONS

PROJECT #: 9650161



DESCRIPTION: Renovate and replace water treatment plant facilities and structures within plant sites

LOCATION: Water Treatment Plants District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	545	229	1,000	1,000	0	0	0	2,774
Water Renewal and Replacement Fund	36,008	9,298	1,500	1,500	1,500	1,500	1,500	1,500	54,306
TOTAL REVENUES:	36,008	9,843	1,729	2,500	2,500	1,500	1,500	1,500	57,080
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	26,328	9,252	9,145	2,350	2,350	1,410	1,410	1,410	53,655
Major Machinery and Equipment	560	197	195	50	50	30	30	30	1,142
Planning and Design	1,120	394	389	100	100	60	60	60	2,283
TOTAL EXPENDITURES:	28,008	9,843	9,729	2,500	2,500	1,500	1,500	1,500	57,080

WATER TREATMENT PLANT - SOUTH MIAMI HEIGHTS

PROJECT #: 9652821



DESCRIPTION: Construct water treatment plant, wellfields and various water transmission mains in south Miami-Dade County

LOCATION: 11800 SW 208 St District Located: 9
 Unincorporated Miami-Dade County District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,100	1,075	1,000	1,000	10,300	0	0	14,475
WASD Revenue Bonds Sold	34,153	0	0	0	0	0	0	0	34,153
TOTAL REVENUES:	34,153	1,100	1,075	1,000	1,000	10,300	0	0	48,628
EXPENDITURE SCHEDULE:	PRIOR	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	FUTURE	TOTAL
Construction	31,080	1,001	978	910	910	9,373	0	0	44,252
Planning and Design	3,073	99	97	90	90	927	0	0	4,376
TOTAL EXPENDITURES:	34,153	1,100	1,075	1,000	1,000	10,300	0	0	48,628

FY 2020 - 21 Proposed Budget and Multi-Year Capital Plan

UNFUNDED CAPITAL PROJECTS

PROJECT NAME	LOCATION	(dollars in thousands) ESTIMATED PROJECT COST
OCEAN OUTFALLS - CAPACITY PROJECTS	Throughout Miami Dade County	1,730,281
OCEAN OUTFALLS - LEGISLATION PROJECTS	Throughout Miami Dade County	3,374
UNDERSIZED WATER MAINS - REPLACEMENTS	Throughout Miami Dade County	15,963
WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	Throughout Miami Dade County	143,601
WASTEWATER TREATMENT PLANT - CENTRAL DISTRICT IMPROVEMENTS	Throughout Miami Dade County	699
WASTEWATER TREATMENT PLANT - SOUTH DISTRICT IMPROVEMENTS	Throughout Miami Dade County	6,075
WATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	Throughout Miami Dade County	480,016
WATER INFRASTRUCTURE - VARIOUS IMPROVEMENTS	Throughout Miami Dade County	5,700
WATER TREATMENT PLANT (ALEX ORR) - IMPROVEMENTS	Throughout Miami Dade County	33,863
WATER TREATMENT PLANT (HIALEAH) - IMPROVEMENTS	Throughout Miami Dade County	21,620
WATER TREATMENT PLANT (PRESTON) - IMPROVEMENTS	Throughout Miami Dade County	57,331
WATER TREATMENT PLANTS - NEW FACILITIES SOUTH MIAMI AND SURFACE	Throughout Miami Dade County	690,818
	UNFUNDED TOTAL	3,189,341