

FY 2018 - 19 Proposed Budget and Multi-Year Capital Plan

Water and Sewer

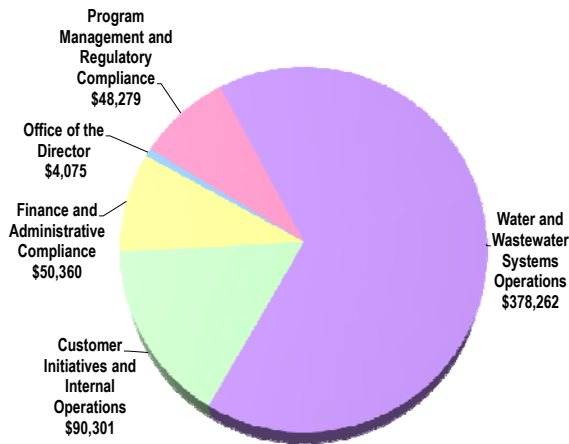
The Miami-Dade Water and Sewer Department (WASD) provides high-quality drinking water and wastewater disposal services, safeguarding public health and the environment, while planning for future growth, implementing water conservation measures, and providing for process improvements and cost efficiencies.

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 three regional, one shared City of Hialeah reverse osmosis, and five local water treatment plants, with a total permitted capacity of 464 million gallons per day (MGD), and three regional wastewater treatment plants with a total permitted capacity of 376 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 Floridian Aquifer; more than 1,000 sewer pump stations; more than 8,700 miles of water distribution mains; 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.

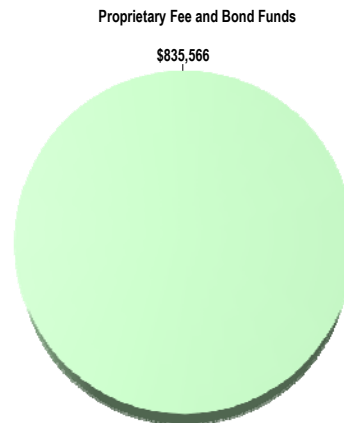
The Department delivers water and sewer services to most residents and businesses within Miami-Dade County, serving approximately 443,000 water and 361,000 wastewater retail customers as of September 30, 2017. Additionally, service is provided to 15 wholesale (municipal) water customers and to 13 wholesale (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 2018-19 Proposed Budget

Expenditures by Activity (dollars in thousands)

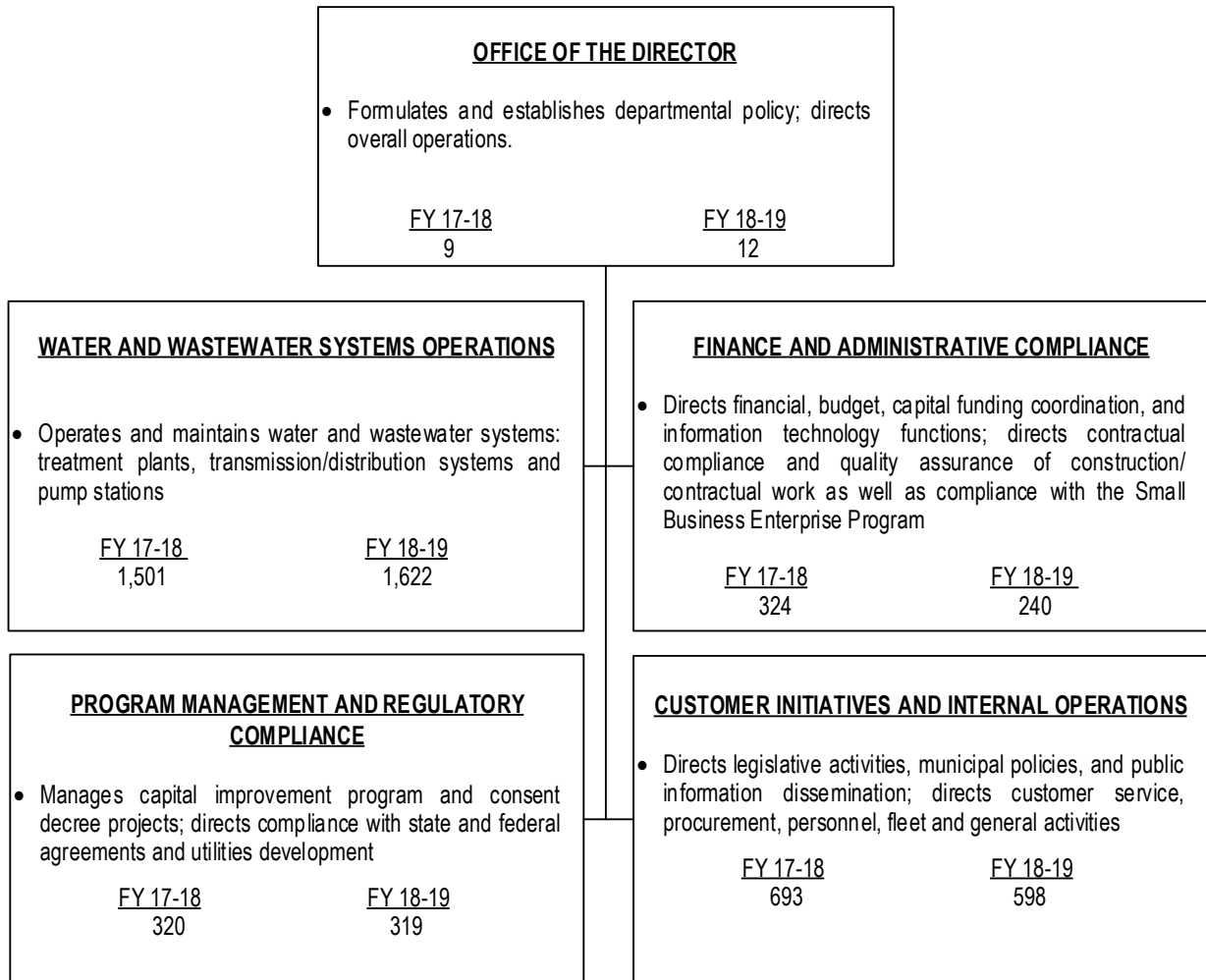


Revenues by Source (dollars in thousands)



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TABLE OF ORGANIZATION



The FY 2018-19 total number of full-time equivalent positions is 2,791.8.

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FINANCIAL SUMMARY

(dollars in thousands)	Actual FY 15-16	Actual FY 16-17	Budget FY 17-18	Proposed FY 18-19
Revenue Summary				
Carryover	63,834	68,551	71,638	74,199
Miscellaneous Non-Operating	1,876	3,144	2,351	7,788
Other Revenues	28,685	28,932	30,253	30,404
Retail Wastewater	273,058	288,910	303,747	314,420
Retail Water	247,088	265,636	275,311	280,739
Transfer From Other Funds	5,000	0	4,084	17,617
Wholesale Wastewater	82,379	88,938	73,778	77,991
Wholesale Water	28,572	34,916	35,251	32,408
Loan Repayments	5,000	0	0	0
Total Revenues	735,492	779,027	796,413	835,566
Operating Expenditures Summary				
Salary	165,050	166,400	177,634	174,843
Fringe Benefits	56,857	57,782	66,895	73,474
Contractual Services	89,839	88,675	103,861	109,953
Other Operating	28,390	32,380	43,990	46,259
Charges for County Services	48,353	53,293	52,814	64,375
Capital	67,547	93,102	82,192	102,373
Total Operating Expenditures	456,036	491,632	527,386	571,277
Non-Operating Expenditures Summary				
Transfers	5,000	18,498	0	0
Distribution of Funds In Trust	0	0	0	0
Debt Service	169,392	175,086	194,828	186,138
Depreciation, Amortizations and Depletion	0	0	0	0
Reserve	0	0	74,199	78,151
Total Non-Operating Expenditures	174,392	193,584	269,027	264,289

(dollars in thousands) Expenditure By Program	Total Funding		Total Positions	
	Budget FY 17-18	Proposed FY 18-19	Budget FY 17-18	Proposed FY 18-19
Strategic Area: Neighborhood and Infrastructure				
Office of the Director	2,428	4,075	9	12
Water and Wastewater	338,497	378,262	1,501	1,622
Systems Operations				
Finance and Administrative	47,962	50,360	324	240
Compliance				
Program Management and Regulatory Compliance	41,808	48,279	320	319
Customer Initiatives and Internal Operations	96,691	90,301	693	598
Total Operating Expenditures	527,386	571,277	2,847	2,791

SELECTED ITEM HIGHLIGHTS AND DETAILS

Line Item Highlights	(dollars in thousands)				
	Actual FY 15-16	Actual FY 16-17	Budget FY 17-18	Projection FY 17-18	Proposed FY 18-19
Advertising	748	731	920	711	920
Fuel	2,247	2,584	2,981	3,060	2,837
Overtime	17,886	14,361	15,534	17,969	15,994
Rent	206	1,201	1,098	1,045	1,098
Security Services	12,061	12,905	16,260	14,028	16,000
Temporary Services	2,267	1,235	2,926	1,509	1,500
Travel and Registration	172	210	351	338	509

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PROPOSED FEE ADJUSTMENTS FOR SERVICES

Fee Adjustments	Current Fee FY 17-18	Proposed Fee FY 18-19	Dollar Impact FY 18-19
• Water Retail Meter Charge Rate Adjustments	various	various	\$11,186,700
• Wastewater Retail Base Facility Charge Rate Adjustments	various	various	\$14,063,000
• Water Wholesale Rate per one thousand gallons	1.8341	1.7628	\$-2,843,000
• Wastewater Wholesale Rate per one thousand gallons	3.0937	3.0937	\$4,213,000

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

- Due to the continuing decrease in average water usage, which has impacted the ability of the Department to generate enough revenue to support the fixed costs of operations; to fully cover the cost of production and to minimize the impact to the retail water and sewer user, the FY 2018-19 Proposed Budget includes a monthly increase of \$3.00 to the meter charge (\$1.20 Water and \$1.80 Wastewater), effective October 1st, 2018
- Effective October 1, 2018, the wholesale water rate will decrease to \$1.7628 from \$1.8341, or by \$0.0713 per thousand gallons; the wastewater wholesale rate will remain at \$3.0937 per thousand gallons; wholesale customers' bills include a true-up adjustment to recover actual cost for FY 2016-17
- The FY 2018-19 Proposed Budget includes a Memorandum of Understanding with the Office of the Inspector General to perform specialized audits as required (\$75,000), payments to the Audit and Management Services Department for expenses associated with audits and reviews (\$500,000) and funding to the Miami-Dade Fire Rescue Department (MDFR) for fire hydrant maintenance (\$1 million)
- The FY 2018-19 Proposed Budget includes the transfer of three positions from Program Management and Regulatory Compliance, as a result of a departmental reorganization; these positions will manage the Consent Decree Program
- In FY 2016-17, the Department signed an agreement with the City of Opa-Locka for the billing of Water, Sanitary Sewage and Stormwater Utility services for an initial ten year period with two five year options to renew

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DIVISION: WATER AND WASTEWATER SYSTEMS OPERATIONS

Operates and maintains the water and wastewater treatment plants, pump stations, and 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, 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
- Installs, repairs, relocates, maintains and replaces water meters
- 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

Strategic Objectives - Measures

- NI2-1: Provide adequate potable water supply and wastewater disposal

Objectives	Measures			FY 15-16	FY 16-17	FY 17-18	FY 17-18	FY 18-19
				Actual	Actual	Budget	Projection	Target
Ensure compliance with 20-year Water Use Permit with the South Florida Water Management District	Estimated gallons of water saved per day (GPD) through the Water Use Efficiency Program (in thousands)*	OC	↑	908	271	200	275	275
Fully comply with drinking water standards	Percentage compliance with drinking water standards	OC	↑	100%	100%	100%	100%	100%
Ensure proper maintenance and operation of the sewage system	Percentage compliance with wastewater effluent limits	OC	↑	93%	98%	100%	100%	100%
	Percentage of pumps in service	EF	↑	98%	99%	99%	99%	99%
	Wastewater mainline valves exercised	OP	↔	6,241	6,346	6,000	6,000	6,000

*The FY 2016-17 actual and FY 2017-18 and FY 2018-19 targets for water savings reflects using a corrected calculation outlined in the mandated 20-year Water Use Permit issued by South Florida Water Management District for the Landscape Irrigation Evaluation measure, which accounts for the reduction in projected water savings compared to previous years

DIVISION COMMENTS

- The 2018-19 Proposed Budget includes the addition of one Semi-Skilled Laborer and one W&S Maintenance Repairer for the Meter Installation Division to meet the increased workload generated by the City of Opa-Locka
- The 2018-19 Proposed Budget includes the addition of one Pipeline Supervisor, one Pipefitter, one W&S Heavy Equipment Operator, 11 Semi-Skilled Laborers, one W&S Maintenance Repairer, one Engineer Survey Tech 2, and one GIS Graphic Tech 2 related to the Leak Detection Program to reduce non-revenue water loss
- The FY 2018-19 Proposed Budget includes the transfer of 102 positions from Customer Initiatives and Internal Operations and Finance and Administrative Compliance as a result of a departmental reorganization to better align services that meet customer needs

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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

Strategic Objectives - Measures

- GG4-1: Provide sound financial and risk management

Objectives	Measures			FY 15-16	FY 16-17	FY 17-18	FY 17-18	FY 18-19
				Actual	Actual	Budget	Projection	Target
Ensure sound asset management and financial investment strategies	Bond rating evaluation by Fitch	OC	↑	A+	A+	A+	A+	A+
	Bond rating evaluation by Standard and Poor's	OC	↑	A+	A+	A+	A+	A+
	Bond rating evaluation by Moody's	OC	↑	Aa3	Aa3	Aa3	Aa3	Aa3

DIVISION COMMENTS

- The FY 2017-18 Proposed Budget includes payments to the Finance Department for expenses associated with cash management services (\$6,000)
- The FY 2017-18 year-end combined fund balance is projected to be \$97 million in rate stabilization and general reserve funds; in FY 2018-19, the Department will also be funding an additional \$646,000 for the general reserve in order to strengthen bonding capacity and meet additional bonds test necessary to issue debt to support the Department's \$11 billion capital program; a combined balance of \$97.6 million is projected between these reserves, and the Department will have a year-end fund balance of \$78.2 million in the operating budget as required for bond ordinances
- The FY 2018-19 Proposed Budget includes two additional Cashier 1 and two W&S Account Clerks for the Controller's Division to handle increased workload generated by the City of Opa-Locka agreement, one additional position for the Chief Financial Officer to handle departmental issues, and the transfer of five additional positions to Water and Wastewater Systems Operation, Program Management and Regulatory Compliance and Customer Initiatives and Internal Operations, as a result of a departmental reorganization
- In FY 2017-18, ITD continued to work with various County departments including Water and Sewer to streamline County IT functions; 84 positions have been transferred to ITD as part of the continuing effort to consolidate IT functions and services under a centralized model; this on-going effort will produce operational efficiencies, provide for expanded capabilities, improve continuity of operations, and allow for better collaboration and information sharing

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DIVISION: PROGRAM MANAGEMENT AND REGULATORY COMPLIANCE

Manages Consent Decree projects; directs compliance with state and federal agreements and utilities development.


- Directs planning of water and wastewater facilities and infrastructure
- Directs design and construction activities for both the water and wastewater systems
- Oversees environmental regulations and compliance with federal and state agreements
- Directs Water Use Efficiency and Water Loss Reduction programs
- Processes applications for new water services, mains, pump stations and fire hydrant installations by private contractors

Strategic Objectives - Measures

- NI2-1: Provide adequate potable water supply and wastewater disposal

Objectives	Measures			FY 15-16	FY 16-17	FY 17-18	FY 17-18	FY 18-19
				Actual	Actual	Budget	Projection	Target
Ensure compliance with Comprehensive Development of Master Plan	Percentage of Comprehensive Development Master Plan comments submitted timely	EF	↑	100%	100%	100%	100%	100%
	Percentage of Development Impact Committee comments provided timely	EF	↑	100%	100%	100%	100%	100%
Ensure proper maintenance and operation of the sewage system	Percentage of Consent Decree Wastewater Projects on Schedule	OC	↑	99%	95%	97%	97%	97%
	Percentage of Ocean Outfall Legislation projects on schedule	OC	↑	100%	100%	100%	100%	100%

DIVISION COMMENTS

-  In FY 2018-19, 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
- The FY 2018-19 Proposed Budget includes funding to the Parks, Recreation and Open Spaces (PROS) Department for Cooperative Extension's Florida Yards and Neighborhoods Program (\$285,000)
- The FY 2018-19 Proposed Budget includes the transfer of three positions to the Office of the Director and the addition of two positions transferred from Finance and Administrative Compliance, for a net reduction of one position

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DIVISION: CUSTOMER INITIATIVES AND INTERNAL OPERATIONS

Directs retail customer services, meter installations and maintenance, procurement, human resources, fleet, and other general maintenance services. Directs legislative and municipal policies, public information dissemination, and security services and emergency communication

- Manages human capital planning and procurement
- 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

Strategic Objectives - Measures

- GG1-1: Provide easy access to information and services

Objectives	Measures			FY 15-16	FY 16-17	FY 17-18	FY 17-18	FY 18-19
				Actual	Actual	Budget	Projection	Target
Provide information to customers in a timely manner	Average call wait time (in minutes)*	EF	↓	3	2.3	2.5	2.5	2.5
	Percentage of calls answered within two minutes (monthly)*	OC	↑	60%	65%	70%	70%	75%
Maintain high level of responsiveness to customer service requests	Percentage of non-emergency requests dispatched in less than three business days	OC	↑	88%	94%	97%	95%	99%

*Enhancements to customer self-service tools are planned for FY 2018-19

- GG2-2: Develop and retain excellent employees and leaders

Objectives	Measures			FY 15-16	FY 16-17	FY 17-18	FY 17-18	FY 18-19
				Actual	Actual	Budget	Projection	Target
Training hours per employee	Training hours per employee	OP	↔	13	15	15	15	15

DIVISION COMMENTS

- The Department is currently working on an outreach campaign that includes the Department's branding for community recognition and will inform the citizens on water and wastewater services and the Multi-Year Capital Improvements Plan
- The FY 2018-19 Proposed Budget includes the addition of two W&S Fingerprint Analysts positions for the Security Office as recommended by the Office of the Inspector General security audit
- The FY 2018-19 Proposed Budget includes a payment to the Human Resources Department for testing and validation services (\$45,000)
- The FY 2018-19 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 FY 2018-19 Proposed Budget includes the transfer of 102 positions to Water and Wastewater Systems Operations and three positions from Finance and Administration Compliance, as a result of a departmental reorganization, in addition two positions were added to assist with increased workload

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Department Operational Unmet Needs			
Description	(dollars in thousands)		Positions
	Startup Costs/ Non Recurring Costs	Recurring Costs	
Fund nine positions in Water and Wastewater Systems Operations to support additional work required for the Consent Decree	\$0	\$718	9
Fund nine positions in Water and Wastewater Systems Operations to support staffing needs identified in the Gravity Sewer System Operations and Maintenance Plan and the Force Main Operations, Preventive Maintenance and Assessment/Rehabilitation Program	\$0	\$509	9
Fund nine positions in Water and Wastewater Systems Operations to support staff needs identified in the Pump Station Operations and Preventative Maintenance Program to address the needs under the Consent Decree, Section VI Compliance Monitoring, Chapter 19	\$0	\$656	9
Fund two positions in Customer Initiatives and Internal Operations to help formulate departmental policies and procedures, establish organizational goals, set performance measures, and manage real estate activities	\$0	\$179	2
Fund five positions in Customer Initiatives and Internal Operations to manage all issuance and receipts of stock and non-stock items, as well as purchasing related to the Consent Decree, CIP, PSIP programs; Procurement and Stores has experienced a twofold increase in purchasing volume to over \$550 million this past year	\$0	\$363	5
Fund two positions to improve accuracy of new heavy equipment preparation, body shop repairs coordination and disposal of departmental mobile equipment, preparation for auction, and to assist subordinates with unusual or difficult problems	\$0	\$99	2
Fund three positions in Customer Initiatives and Internal Operations to improve the hiring process, address individual inquiries, process related paperwork, and assist with required reports	\$0	\$174	3
Fund four positions in the Water and Wastewater Systems Operations to increase capacity to cover the entire service area; this will allow for increased productivity and the ability to address a backlog of over 5,000 pending orders	\$0	\$248	4
Fund two positions to support additional sampling requirements for the southwestern end of Miami-Dade County	\$0	\$140	2
Fund six positions to manage and supervise staff functions related to cash collections, wholesale billing, lien processing, pre and post audit activities, final bill processing, and data control, and to assure compliance with various regulations and procedures when compiling financial and statistical information for reporting purposes	\$0	\$412	6
Total	\$0	\$3,498	51

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CAPITAL BUDGET SUMMARY

(dollars in thousands)	PRIOR	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FUTURE	TOTAL
Revenue									
BBC GOB Financing	20,129	10,000	15,712	18,461	20,897	21,358	24,000	24,741	155,298
BBC GOB Series 2005A	2,399	0	0	0	0	0	0	0	2,399
BBC GOB Series 2008B	2,952	0	0	0	0	0	0	0	2,952
BBC GOB Series 2008B-1	5,259	0	0	0	0	0	0	0	5,259
BBC GOB Series 2011A	2,605	0	0	0	0	0	0	0	2,605
BBC GOB Series 2013A	246	0	0	0	0	0	0	0	246
BBC GOB Series 2014A	1,396	0	0	0	0	0	0	0	1,396
Fire Hydrant Fund	8,309	3,500	3,500	3,500	3,500	3,500	3,500	5,921	35,230
Future WASD Revenue Bonds	0	213,650	373,667	428,169	491,504	459,091	629,107	5,946,320	8,541,508
Miami Springs Wastewater Construction Fund	867	207	252	0	0	0	0	0	1,326
Miami Springs Water Construction Fund	4,230	3,044	1,971	251	0	0	0	0	9,496
State Revolving Loan Wastewater Program	21,045	0	0	0	0	0	0	0	21,045
State Revolving Loan Water Program	23,008	0	0	0	0	0	0	0	23,008
WASD Future Funding	0	0	0	0	0	0	0	64,614	64,614
WASD Revenue Bonds Sold	1,060,673	0	0	0	0	0	0	0	1,060,673
Wastewater Connection Charges	97,543	33,449	50,887	41,132	48,480	49,485	25,709	0	346,685
Wastewater Renewal Fund	205,025	49,000	50,500	50,500	50,500	50,500	50,500	50,500	557,025
Wastewater Special Construction Fund	29,150	0	0	0	0	0	0	0	29,150
Water Connection Charges	10,205	7,995	10,549	9,056	5,728	10,000	2,806	0	56,339
Water Renewal and Replacement Fund	166,750	41,001	39,500	39,500	39,500	39,500	39,500	39,500	444,751
Water Special Construction Fund	26,020	1,000	1,000	1,000	1,000	2,000	2,000	0	34,020
Total:	1,687,811	362,846	547,538	591,569	661,109	635,434	777,122	6,131,596	11,395,025
Expenditures									
Strategic Area: NI									
GOB Water and Wastewater Projects	34,986	10,000	15,712	18,461	20,897	21,358	24,000	24,741	170,155
Wastewater Projects	1,051,359	361,571	381,926	439,128	500,905	497,152	635,256	5,876,686	9,743,983
Water Projects	397,700	173,616	154,322	136,480	141,807	119,424	125,458	232,080	1,480,887
Total:	1,484,045	545,187	551,960	594,069	663,609	637,934	784,714	6,133,507	11,395,025

CAPITAL HIGHLIGHTS AND OPERATIONAL IMPACTS

- The Department's FY 2018-19 Proposed Budget and Multi-Year Capital Improvement Plan is systematic and responsible addressing regulatory, aging infrastructure such as pump stations, treatment plants, transmission lines and upgrades (\$11.4 billion); the capital plan addresses \$9.7 billion in wastewater, \$1.5 billion in water needs, and BBC-GOB Water and Wastewater needs of \$170 million dollars
- In FY 2017-18, while developing the FY 2018-19 Proposed Budget, the department re-evaluated all capital projects; with an emphasis on all Federal, State and local requirements, the scope and timing of many projects were modified; based on changes in scope, projects increase by \$1.180 Billion, the completion or removal of some projects decrease the capital plan by \$1.309 Billion, reclassifying some projects that are now unfunded, decreased the capital plan by \$1.402 Billion, changing project estimates, with no changes to scope, decreased the capital plan by \$350 million; based on all project modifications, the multi-year capital plan decreased by \$1.881 Billion
- 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 1990's; 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
- The Department's FY 2018-19 Proposed Budget and Multi-Year Capital Plan includes the continued implementation of various water system capital projects; FY 2018-19 includes \$177 million of projects such as the Hialeah/Preston Water Treatment Plant (\$18.224 million), Alexander Orr Water Treatment Plant (\$20.664 million), Small Diameter Water Main Replacement Program (\$21.547 million), and Water Distribution System (\$26.494 million)
- The Department's FY 2018-19 Proposed Budget and Multi-Year Capital Plan also addresses the continued implementation of various wastewater systems capital projects (\$375 million); major demands include: Pump Station Improvement Program (\$25.191 million), Ocean Outfalls Program (\$48.404 million), Consent Decree (\$149.628 million), and North District Wastewater Treatment Plant (\$10.869 million)

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- In FY 2018-19, the Department is increasing its focus on Inflow/Infiltration (I&I) 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 a capital and operational savings; a study will be begun to quantify this savings; FY 2018-19 budget for Inflow and Infiltration is \$13.4 million
- The Department's FY 2018-19 Proposed Budget and Multi-Year Capital Plan includes the purchase of 233 vehicles to replace its aging fleet (Heavy fleet - \$12.309 million and light fleet \$2.254 million); the fleet replacement plan will provide operational savings to the Department in the long-term as it will reduce maintenance costs, fuel consumption, and overtime as a result of addressing equipment failure; the County's fleet replacement plan is included under Non-Departmental project #2000000511

FUNDED CAPITAL PROJECTS

(dollars in thousands)

CENTRAL DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES

PROJECT #: 9653421

DESCRIPTION: Construct digester improvements, digested sludge holding tanks, miscellaneous electrical improvements, outfall rehabilitation, a new gas pipeline, a new flushing water line, and a sludge handling facility; various upgrades and rehabilitation of plant including pump stations 1 and 2

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



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,500	7,000	8,000	8,000	10,986	15,000	92,385	143,871
WASD Future Funding	0	0	0	0	0	0	0	5,129	5,129
WASD Revenue Bonds Sold	3,139	0	0	0	0	0	0	0	3,139
TOTAL REVENUES:	3,139	2,500	7,000	8,000	8,000	10,986	15,000	97,514	152,139
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	1,989	3,255	6,510	7,440	7,440	10,217	13,950	90,688	141,489
Planning and Design	150	245	490	560	560	769	1,050	6,826	10,650
TOTAL EXPENDITURES:	2,139	3,500	7,000	8,000	8,000	10,986	15,000	97,514	152,139

CENTRAL MIAMI-DADE - WASTEWATER 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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	5,469	4,000	2,000	2,000	2,000	0	15,469
WASD Revenue Bonds Sold	10,664	0	0	0	0	0	0	0	10,664
TOTAL REVENUES:	10,664	0	5,469	4,000	2,000	2,000	2,000	0	26,133
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	5,621	3,763	4,812	3,520	1,760	1,760	1,760	0	22,996
Land Acquisition/Improvements	128	86	109	80	40	40	40	0	523
Planning and Design	638	428	548	400	200	200	200	0	2,614
TOTAL EXPENDITURES:	6,387	4,277	5,469	4,000	2,000	2,000	2,000	0	26,133

Estimated Annual Operating Impact will begin in FY 2019-20 in the amount of \$2,253,000

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CENTRAL MIAMI-DADE - WATER TRANSMISSION MAINS IMPROVEMENTS

PROJECT #: 9654041

DESCRIPTION: Replace various low pressure water mains; 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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	0	254	700	1,000	8,624	10,578
Water Renewal and Replacement Fund	133	0	0	0	0	0	0	0	133
TOTAL REVENUES:	133	0	0	0	254	700	1,000	8,624	10,711
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	126	0	0	0	241	665	950	8,193	10,175
Planning and Design	7	0	0	0	13	35	50	431	536
TOTAL EXPENDITURES:	133	0	0	0	254	700	1,000	8,624	10,711

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

PROJECT #: 967090

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
BBC GOB Financing	4,179	5,000	11,031	15,406	20,285	21,358	24,000	24,741	126,000
TOTAL REVENUES:	4,179	5,000	11,031	15,406	20,285	21,358	24,000	24,741	126,000
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	3,185	5,000	11,031	15,406	20,285	21,358	24,000	24,741	125,006
Planning and Design	994	0	0	0	0	0	0	0	994
TOTAL EXPENDITURES:	4,179	5,000	11,031	15,406	20,285	21,358	24,000	24,741	126,000

FLOW REDUCTION PROGRAM (FRP)

PROJECT #: 9650201

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



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	7,050	6,827	7,375	6,724	7,637	4,000	20,500	60,113
WASD Revenue Bonds Sold	5,904	0	0	0	0	0	0	0	5,904
Wastewater Renewal Fund	9,349	0	0	0	0	0	0	0	9,349
TOTAL REVENUES:	15,253	7,050	6,827	7,375	6,724	7,637	4,000	20,500	75,366
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	13,728	6,345	6,145	6,637	6,052	6,873	3,600	18,450	67,830
Planning and Design	1,525	705	682	738	672	764	400	2,050	7,536
TOTAL EXPENDITURES:	15,253	7,050	6,827	7,375	6,724	7,637	4,000	20,500	75,366

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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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Wastewater Renewal Fund	11,086	0	3,500	3,500	3,500	3,500	3,500	3,500	32,086
TOTAL REVENUES:	11,086	0	3,500	3,500	3,500	3,500	3,500	3,500	32,086
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	6,048	2,820	2,800	2,800	2,800	2,800	2,800	2,800	25,668
Land Acquisition/Improvements	530	247	245	245	245	245	245	245	2,247
Major Machinery and Equipment	227	105	105	105	105	105	105	105	962
Planning and Design	756	353	350	350	350	350	350	350	3,209
TOTAL EXPENDITURES:	7,561	3,525	3,500	3,500	3,500	3,500	3,500	3,500	32,086

Estimated Annual Operating Impact will begin in FY 2018-19 in the amount of \$5,000,000

MIAMI SPRINGS - PUMP STATION UPGRADES (BUILDING BETTER COMMUNITIES BOND PROGRAM)

PROJECT #: 967730

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

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
BBC GOB Financing	241	30	0	0	0	0	0	0	271
BBC GOB Series 2008B-1	559	0	0	0	0	0	0	0	559
BBC GOB Series 2011A	8	0	0	0	0	0	0	0	8
TOTAL REVENUES:	808	30	0	0	0	0	0	0	838
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	808	30	0	0	0	0	0	0	838
TOTAL EXPENDITURES:	808	30	0	0	0	0	0	0	838

MIAMI SPRINGS CONSTRUCTION FUND - WASTEWATER

PROJECT #: 969110

DESCRIPTION: Construct wastewater collection system improvements in Miami Springs
 LOCATION: Miami Springs District Located: 6
 Miami Springs District(s) Served: 6

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Miami Springs Wastewater Construction Fund	867	207	252	0	0	0	0	0	1,326
TOTAL REVENUES:	867	207	252	0	0	0	0	0	1,326
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	780	186	227	0	0	0	0	0	1,193
Planning and Design	87	21	25	0	0	0	0	0	133
TOTAL EXPENDITURES:	867	207	252	0	0	0	0	0	1,326

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MIAMI SPRINGS CONSTRUCTION FUND - WATER

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Miami Springs Water Construction Fund	4,230	3,044	1,971	251	0	0	0	0	9,496
TOTAL REVENUES:	4,230	3,044	1,971	251	0	0	0	0	9,496
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	3,595	2,587	1,675	213	0	0	0	0	8,070
Planning and Design	635	457	296	38	0	0	0	0	1,426
TOTAL EXPENDITURES:	4,230	3,044	1,971	251	0	0	0	0	9,496

NEEDS ASSESSMENT PROJECTS (BUILDING BETTER COMMUNITIES BOND PROGRAM)

PROJECT #: 964350

DESCRIPTION: Construction of water and sewer enhancements including water mains, pipelines and sewer collection systems
 LOCATION: Various Sites District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
BBC GOB Financing	6,995	1,856	1,315	279	226	0	0	0	10,671
BBC GOB Series 2005A	1,686	0	0	0	0	0	0	0	1,686
BBC GOB Series 2008B	1,504	0	0	0	0	0	0	0	1,504
BBC GOB Series 2008B-1	2,288	0	0	0	0	0	0	0	2,288
BBC GOB Series 2013A	25	0	0	0	0	0	0	0	25
BBC GOB Series 2014A	259	0	0	0	0	0	0	0	259
TOTAL REVENUES:	12,757	1,856	1,315	279	226	0	0	0	16,433
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	11,633	1,856	1,315	279	226	0	0	0	15,309
Permitting	171	0	0	0	0	0	0	0	171
Planning and Design	953	0	0	0	0	0	0	0	953
TOTAL EXPENDITURES:	12,757	1,856	1,315	279	226	0	0	0	16,433

NORTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES

PROJECT #: 9653411

DESCRIPTION: Construct a chlorine improvement process, replace sluice gates in the pre-treatment bar screen room, and provide for various upgrades and rehabilitation of the plant
 LOCATION: 2575 NE 151 St District Located: 4
 North Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	3,935	13,840	15,097	13,800	10,000	15,400	86,000	158,072
WASD Revenue Bonds Sold	14,807	0	0	0	0	0	0	0	14,807
TOTAL REVENUES:	14,807	3,935	13,840	15,097	13,800	10,000	15,400	86,000	172,879
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	7,558	10,435	13,286	14,493	13,248	9,600	14,784	82,560	165,964
Planning and Design	315	434	554	604	552	400	616	3,440	6,915
TOTAL EXPENDITURES:	7,873	10,869	13,840	15,097	13,800	10,000	15,400	86,000	172,879

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

PROJECT #: 9652101

DESCRIPTION: Improve pump stations to increase system flexibility
 LOCATION: Wastewater System - North District Area
 Various Sites

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,438	1,839	4,831	5,673	13,200	22,120	4,450	53,551
WASD Future Funding	0	0	0	0	0	0	0	28,307	28,307
WASD Revenue Bonds Sold	599	0	0	0	0	0	0	0	599
TOTAL REVENUES:	599	1,438	1,839	4,831	5,673	13,200	22,120	32,757	82,457
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	539	1,294	1,655	4,348	5,106	11,880	19,908	29,482	74,212
Land Acquisition/Improvements	18	43	55	145	170	396	664	982	2,473
Planning and Design	42	101	129	338	397	924	1,548	2,293	5,772
TOTAL EXPENDITURES:	599	1,438	1,839	4,831	5,673	13,200	22,120	32,757	82,457

Estimated Annual Operating Impact will begin in FY 2018-19 in the amount of \$2,330,000

NORTH MIAMI-DADE - WATER 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
 Miami Gardens

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	689	9,176	18,538	25,423	6,500	2,500	0	62,826
WASD Revenue Bonds Sold	12,220	0	0	0	0	0	0	0	12,220
Water Connection Charges	4,088	5,065	6,355	5,056	1,728	6,000	0	0	28,292
TOTAL REVENUES:	16,308	5,754	15,531	23,594	27,151	12,500	2,500	0	103,338
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	10,267	10,472	14,599	22,178	25,522	11,750	2,350	0	97,138
Planning and Design	655	668	932	1,416	1,629	750	150	0	6,200
TOTAL EXPENDITURES:	10,922	11,140	15,531	23,594	27,151	12,500	2,500	0	103,338

NW 37 AVE INDUSTRIAL DEVELOPMENT AREA (BUILDING BETTER COMMUNITIES BOND PROGRAM)

PROJECT #: 965520

DESCRIPTION: Replace water and sewer mains in the NW 37 Ave Industrial Development Area
 LOCATION: NW 37 Ave and NW 36 St
 Various Sites

District Located: 2
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
BBC GOB Financing	4,270	1,227	1,718	1,876	0	0	0	0	9,091
BBC GOB Series 2005A	4	0	0	0	0	0	0	0	4
BBC GOB Series 2008B	430	0	0	0	0	0	0	0	430
BBC GOB Series 2008B-1	190	0	0	0	0	0	0	0	190
BBC GOB Series 2014A	9	0	0	0	0	0	0	0	9
TOTAL REVENUES:	4,903	1,227	1,718	1,876	0	0	0	0	9,724
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	4,713	1,227	1,718	1,876	0	0	0	0	9,534
Planning and Design	190	0	0	0	0	0	0	0	190
TOTAL EXPENDITURES:	4,903	1,227	1,718	1,876	0	0	0	0	9,724

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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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	6,895	36,746	43,693	71,699	97,738	159,983	3,871,949	4,288,703
State Revolving Loan Wastewater Program	21,045	0	0	0	0	0	0	0	21,045
WASD Revenue Bonds Sold	83,983	0	0	0	0	0	0	0	83,983
Wastewater Connection Charges	6,241	8,231	9,789	10,724	15,347	17,553	8,359	0	76,244
TOTAL REVENUES:	111,269	15,126	46,535	54,417	87,046	115,291	168,342	3,871,949	4,469,975
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	87,240	29,044	42,812	50,064	80,082	106,068	154,874	3,562,193	4,112,377
Land Acquisition/Improvements	947	315	465	544	871	1,152	1,684	38,720	44,698
Planning and Design	6,639	2,210	3,258	3,809	6,093	8,071	11,784	271,036	312,900
TOTAL EXPENDITURES:	94,826	31,569	46,535	54,417	87,046	115,291	168,342	3,871,949	4,469,975

Estimated Annual Operating Impact will begin in FY 2018-19 in the amount of \$270,000

OUTFALL LEGISLATION - CAPACITY

PROJECT #: 2000000580

DESCRIPTION: Redirect flows to regional plants and account for peak flows through 2035
 LOCATION: Systemwide
 Various Sites

District Located: Systemwide
 District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	3,073	2,611	5,380	30,042	34,206	66,233	1,034,149	1,175,694
WASD Revenue Bonds Sold	11,278	0	0	0	0	0	0	0	11,278
Wastewater Connection Charges	14,458	13,762	20,960	30,408	33,133	31,932	17,350	0	162,003
TOTAL REVENUES:	25,736	16,835	23,571	35,788	63,175	66,138	83,583	1,034,149	1,348,975
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	23,934	15,657	21,920	33,282	58,753	61,508	77,733	961,759	1,254,546
Land Acquisition/Improvements	257	168	236	359	631	662	835	10,341	13,489
Planning and Design	1,545	1,010	1,415	2,147	3,791	3,968	5,015	62,049	80,940
TOTAL EXPENDITURES:	25,736	16,835	23,571	35,788	63,175	66,138	83,583	1,034,149	1,348,975

PEAK FLOW MANAGEMENT FACILITIES

PROJECT #: 9653371

DESCRIPTION: Evaluate and construct alternatives for peak flow management facilities and associated infrastructure
 LOCATION: Systemwide
 Various Sites

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,372	6,591	4,525	1,135	0	0	0	16,623
WASD Revenue Bonds Sold	244	0	0	0	0	0	0	0	244
Wastewater Connection Charges	498	0	0	0	0	0	0	0	498
TOTAL REVENUES:	742	4,372	6,591	4,525	1,135	0	0	0	17,365
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	520	3,060	4,614	3,168	795	0	0	0	12,157
Planning and Design	222	1,312	1,977	1,357	340	0	0	0	5,208
TOTAL EXPENDITURES:	742	4,372	6,591	4,525	1,135	0	0	0	17,365

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PUMP STATION RESILIENCE PROGRAM (PSRP)

PROJECT #: 200000784

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	13,578	18,587	24,719	25,363	27,017	41,235	150,558	301,057
WASD Revenue Bonds Sold	9,048	0	0	0	0	0	0	0	9,048
Wastewater Connection Charges	54,002	0	0	0	0	0	0	0	54,002
TOTAL REVENUES:	63,050	13,578	18,587	24,719	25,363	27,017	41,235	150,558	364,107
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	54,577	11,813	16,171	21,506	22,066	23,505	35,875	130,985	316,498
Land Acquisition/Improvements	1,080	136	186	247	254	270	412	1,506	4,091
Major Machinery and Equipment	2,980	679	929	1,236	1,268	1,351	2,062	7,528	18,033
Planning and Design	4,413	950	1,301	1,730	1,775	1,891	2,886	10,539	25,485
TOTAL EXPENDITURES:	63,050	13,578	18,587	24,719	25,363	27,017	41,235	150,558	364,107

PUMP STATIONS - GENERATORS AND MISCELLANEOUS UPGRADES

PROJECT #: 9652002

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

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,750	1,424	2,205	3,863	453	2,000	0	11,695
TOTAL REVENUES:	0	1,750	1,424	2,205	3,863	453	2,000	0	11,695
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	0	1,557	1,267	1,963	3,438	403	1,780	0	10,408
Major Machinery and Equipment	0	70	57	88	155	18	80	0	468
Planning and Design	0	123	100	154	270	32	140	0	819
TOTAL EXPENDITURES:	0	1,750	1,424	2,205	3,863	453	2,000	0	11,695

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	2,241	17,000	15,000	0	0	0	34,241
WASD Revenue Bonds Sold	87,335	0	0	0	0	0	0	0	87,335
Wastewater Connection Charges	10,302	9,956	18,458	0	0	0	0	0	38,716
Wastewater Renewal Fund	351	0	0	0	0	0	0	0	351
TOTAL REVENUES:	97,988	9,956	20,699	17,000	15,000	0	0	0	160,643
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	78,617	23,931	19,664	16,150	14,250	0	0	0	152,612
Planning and Design	4,136	1,260	1,035	850	750	0	0	0	8,031
TOTAL EXPENDITURES:	82,753	25,191	20,699	17,000	15,000	0	0	0	160,643

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SAFE DRINKING WATER ACT MODIFICATIONS

PROJECT #: 9654061

DESCRIPTION: Modify water treatment to comply with Surface Water Treatment (SWT) and Disinfectant/Disinfection By Product (D-DBP) Regulations

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



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,247	4,564	5,500	4,988	1,000	1,000	50,250	71,549
WASD Revenue Bonds Sold	3,302	0	0	0	0	0	0	0	3,302
Water Renewal and Replacement Fund	2,504	0	0	0	0	0	0	0	2,504
TOTAL REVENUES:	5,806	4,247	4,564	5,500	4,988	1,000	1,000	50,250	77,355
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	5,341	3,907	4,199	5,060	4,589	920	920	46,230	71,166
Planning and Design	465	340	365	440	399	80	80	4,020	6,189
TOTAL EXPENDITURES:	5,806	4,247	4,564	5,500	4,988	1,000	1,000	50,250	77,355

Estimated Annual Operating Impact will begin in FY 2018-19 in the amount of \$10,000,000

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	500	3,500	3,000	2,267	0	0	9,267
WASD Revenue Bonds Sold	5,264	0	0	0	0	0	0	0	5,264
Wastewater Renewal Fund	15,358	0	0	0	0	0	0	0	15,358
TOTAL REVENUES:	20,622	0	500	3,500	3,000	2,267	0	0	29,889
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	13,182	4,957	2,349	3,395	2,910	2,199	0	0	28,992
Planning and Design	408	153	73	105	90	68	0	0	897
TOTAL EXPENDITURES:	13,590	5,110	2,422	3,500	3,000	2,267	0	0	29,889

SANITARY SEWER SYSTEM - IMPROVEMENTS

PROJECT #: 9650221

DESCRIPTION: Construct sanitary sewer system improvements using funds from the special construction fund including special taxing districts

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



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,000	89	0	0	0	0	0	1,089
WASD Revenue Bonds Sold	10,462	0	0	0	0	0	0	0	10,462
Wastewater Special Construction Fund	26,151	0	0	0	0	0	0	0	26,151
TOTAL REVENUES:	36,613	1,000	89	0	0	0	0	0	37,702
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	15,862	3,960	2,563	2,475	2,475	2,475	7,516	0	37,326
Planning and Design	159	40	26	25	25	25	76	0	376
TOTAL EXPENDITURES:	16,021	4,000	2,589	2,500	2,500	2,500	7,592	0	37,702

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SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS

PROJECT #: 964440

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



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	22,894	8,080	3,190	1,170	89	0	0	35,423
WASD Revenue Bonds Sold	62,669	0	0	0	0	0	0	0	62,669
Wastewater Connection Charges	1,006	0	0	0	0	0	0	0	1,006
TOTAL REVENUES:	63,675	22,894	8,080	3,190	1,170	89	0	0	99,098
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	50,371	24,077	6,949	2,743	1,006	76	0	0	85,222
Land Acquisition/Improvements	586	280	81	32	12	1	0	0	992
Major Machinery and Equipment	5,272	2,519	727	287	105	8	0	0	8,918
Planning and Design	2,344	1,120	323	128	47	4	0	0	3,966
TOTAL EXPENDITURES:	58,573	27,996	8,080	3,190	1,170	89	0	0	99,098

Estimated Annual Operating Impact will begin in FY 2019-20 in the amount of \$1,200,000

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	20,969	23,310	26,643	24,408	24,814	27,608	47,679	195,431
State Revolving Loan Water Program	23,008	0	0	0	0	0	0	0	23,008
WASD Future Funding	0	0	0	0	0	0	0	2,000	2,000
WASD Revenue Bonds Sold	37,786	0	0	0	0	0	0	0	37,786
Water Renewal and Replacement Fund	689	0	0	0	0	0	0	0	689
TOTAL REVENUES:	61,483	20,969	23,310	26,643	24,408	24,814	27,608	49,679	258,914
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	54,814	19,392	20,979	23,979	21,967	22,333	24,847	44,711	233,022
Planning and Design	6,091	2,155	2,331	2,664	2,441	2,481	2,761	4,968	25,892
TOTAL EXPENDITURES:	60,905	21,547	23,310	26,643	24,408	24,814	27,608	49,679	258,914

SOUTH DISTRICT - WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS

PROJECT #: 9651061

DESCRIPTION: Construct 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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	3,625	8,508	7,000	4,000	0	0	0	23,133
WASD Revenue Bonds Sold	9,782	0	0	0	0	0	0	0	9,782
TOTAL REVENUES:	9,782	3,625	8,508	7,000	4,000	0	0	0	32,915
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	4,911	7,155	7,658	6,300	3,600	0	0	0	29,624
Land Acquisition/Improvements	109	159	170	140	80	0	0	0	658
Planning and Design	437	636	680	560	320	0	0	0	2,633
TOTAL EXPENDITURES:	5,457	7,950	8,508	7,000	4,000	0	0	0	32,915

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SOUTH DISTRICT - WASTEWATER TREATMENT PLANT EXPANSION (PHASE 3)

PROJECT #: 9655481



DESCRIPTION: Expand the South District Wastewater Plant and injection wells and install emergency generators
 LOCATION: 8950 SW 232 St District Located: 8
 Unincorporated Miami-Dade County District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	898	6,231	11,920	16,802	4,000	171	0	40,022
WASD Revenue Bonds Sold	2,530	0	0	0	0	0	0	0	2,530
TOTAL REVENUES:	2,530	898	6,231	11,920	16,802	4,000	171	0	42,552
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	1,303	1,782	5,608	10,728	15,122	3,600	154	0	38,297
Planning and Design	145	198	623	1,192	1,680	400	17	0	4,255
TOTAL EXPENDITURES:	1,448	1,980	6,231	11,920	16,802	4,000	171	0	42,552

SOUTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES

PROJECT #: 9653401



DESCRIPTION: Construct plant process improvements including injection and monitoring wells, installation of emergency generators, acquiring a land buffer, construction of a landfill gas pipeline, installation of co-gen 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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	3,500	9,087	5,500	2,000	1,000	2,000	25,200	48,287
WASD Future Funding	0	0	0	0	0	0	0	29,178	29,178
WASD Revenue Bonds Sold	29,162	0	0	0	0	0	0	0	29,162
Wastewater Connection Charges	1,320	1,500	1,680	0	0	0	0	0	4,500
TOTAL REVENUES:	30,482	5,000	10,767	5,500	2,000	1,000	2,000	54,378	111,127
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	27,434	4,500	9,690	4,950	1,800	900	1,800	48,940	100,014
Planning and Design	3,048	500	1,077	550	200	100	200	5,438	11,113
TOTAL EXPENDITURES:	30,482	5,000	10,767	5,500	2,000	1,000	2,000	54,378	111,127

SOUTH MIAMI HEIGHTS - WATER TREATMENT PLANT AND WELLFIELD

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	1,229	1,100	1,075	1,000	1,000	10,300	15,704
WASD Revenue Bonds Sold	26,064	0	0	0	0	0	0	0	26,064
TOTAL REVENUES:	26,064	0	1,229	1,100	1,075	1,000	1,000	10,300	41,768
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	21,234	2,484	1,119	1,001	978	910	910	9,373	38,009
Planning and Design	2,100	246	110	99	97	90	90	927	3,759
TOTAL EXPENDITURES:	23,334	2,730	1,229	1,100	1,075	1,000	1,000	10,300	41,768

Estimated Annual Operating Impact will begin in FY 2018-19 in the amount of \$20,000,000

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SOUTH MIAMI-DADE - WATER TRANSMISSION MAINS IMPROVEMENTS

PROJECT #: 9650021

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

LOCATION: South Miami-Dade County
Various Sites

District Located: Systemwide
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	400	747	1,225	3,785	2,641	5,516	5,000	19,314
WASD Revenue Bonds Sold	200	0	0	0	0	0	0	0	200
TOTAL REVENUES:	200	400	747	1,225	3,785	2,641	5,516	5,000	19,514
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	180	360	672	1,102	3,407	2,377	4,964	4,500	17,562
Planning and Design	20	40	75	123	378	264	552	500	1,952
TOTAL EXPENDITURES:	200	400	747	1,225	3,785	2,641	5,516	5,000	19,514

SYSTEM IMPROVEMENTS PROJECT (BUILDING BETTER COMMUNITIES BOND PROGRAM)

PROJECT #: 962830

DESCRIPTION: Replace undersized water mains and install new fire hydrants

LOCATION: Various Sites
Various Sites

District Located: Systemwide
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
BBC GOB Financing	4,444	1,887	1,648	900	386	0	0	0	9,265
BBC GOB Series 2005A	709	0	0	0	0	0	0	0	709
BBC GOB Series 2008B	1,018	0	0	0	0	0	0	0	1,018
BBC GOB Series 2008B-1	2,222	0	0	0	0	0	0	0	2,222
BBC GOB Series 2011A	2,597	0	0	0	0	0	0	0	2,597
BBC GOB Series 2013A	221	0	0	0	0	0	0	0	221
BBC GOB Series 2014A	1,128	0	0	0	0	0	0	0	1,128
TOTAL REVENUES:	12,339	1,887	1,648	900	386	0	0	0	17,160
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	10,949	1,887	1,648	900	386	0	0	0	15,770
Permitting	101	0	0	0	0	0	0	0	101
Planning and Design	1,139	0	0	0	0	0	0	0	1,139
Project Administration	150	0	0	0	0	0	0	0	150
TOTAL EXPENDITURES:	12,339	1,887	1,648	900	386	0	0	0	17,160

WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS

PROJECT #: 968150

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

LOCATION: Various Sites
Throughout Miami-Dade County

District Located: Countywide
District(s) Served: Countywide



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,503	15,914	15,414	12,395	10,829	9,537	44,244	109,836
WASD Revenue Bonds Sold	229,689	0	0	0	0	0	0	0	229,689
Wastewater Connection Charges	9,716	0	0	0	0	0	0	0	9,716
Wastewater Renewal Fund	3,907	0	0	0	0	0	0	0	3,907
TOTAL REVENUES:	243,312	1,503	15,914	15,414	12,395	10,829	9,537	44,244	353,148
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	204,091	21,138	14,641	14,181	11,403	9,963	8,774	40,705	324,896
Major Machinery and Equipment	15,529	1,608	1,114	1,079	868	758	668	3,097	24,721
Planning and Design	2,219	230	159	154	124	108	95	442	3,531
TOTAL EXPENDITURES:	221,839	22,976	15,914	15,414	12,395	10,829	9,537	44,244	353,148

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WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT

PROJECT #: 968090

DESCRIPTION: Install new sewer service to commercial properties utilizing septic tanks
 LOCATION: Various Sites District Located: TBD
 Throughout Miami-Dade County District(s) Served: TBD

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	361	0	0	0	0	78,050	70,662	149,073
WASD Revenue Bonds Sold	1,103	0	0	0	0	0	0	0	1,103
TOTAL REVENUES:	1,103	361	0	0	0	0	78,050	70,662	150,176
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	915	300	0	0	0	0	64,782	58,649	124,646
Land Acquisition/Improvements	11	3	0	0	0	0	781	707	1,502
Planning and Design	177	58	0	0	0	0	12,487	11,306	24,028
TOTAL EXPENDITURES:	1,103	361	0	0	0	0	78,050	70,662	150,176

WASTEWATER - EQUIPMENT

PROJECT #: 9650301

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

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
WASD Revenue Bonds Sold	552	0	0	0	0	0	0	0	552
Wastewater Renewal Fund	35,255	7,500	13,500	13,500	13,500	13,500	13,500	13,500	123,755
TOTAL REVENUES:	35,807	7,500	13,500	13,500	13,500	13,500	13,500	13,500	124,307
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Major Machinery and Equipment	31,124	12,183	13,500	13,500	13,500	13,500	13,500	13,500	124,307
TOTAL EXPENDITURES:	31,124	12,183	13,500	13,500	13,500	13,500	13,500	13,500	124,307

WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS

PROJECT #: 968750

DESCRIPTION: Replace and install new pipelines in areas requiring service improvements
 LOCATION: Various Sites District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
WASD Revenue Bonds Sold	1,426	0	0	0	0	0	0	0	1,426
Wastewater Renewal Fund	13,179	3,000	3,000	3,000	3,000	3,000	3,000	3,000	34,179
TOTAL REVENUES:	14,605	3,000	3,000	3,000	3,000	3,000	3,000	3,000	35,605
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	13,145	2,700	2,700	2,700	2,700	2,700	2,700	2,700	32,045
Major Machinery and Equipment	730	150	150	150	150	150	150	150	1,780
Planning and Design	730	150	150	150	150	150	150	150	1,780
TOTAL EXPENDITURES:	14,605	3,000	3,000	3,000	3,000	3,000	3,000	3,000	35,605

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WASTEWATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES

PROJECT #: 9653201

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

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	5,321	8,939	12,544	17,581	17,552	16,455	61,514	139,906
WASD Revenue Bonds Sold	2,345	0	0	0	0	0	0	0	2,345
TOTAL REVENUES:	2,345	5,321	8,939	12,544	17,581	17,552	16,455	61,514	142,251
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	2,205	5,002	8,403	11,791	16,526	16,499	15,467	57,823	133,716
Land Acquisition/Improvements	23	53	89	125	176	176	165	615	1,422
Major Machinery and Equipment	94	213	358	502	703	702	658	2,461	5,691
Planning and Design	23	53	89	126	176	175	165	615	1,422
TOTAL EXPENDITURES:	2,345	5,321	8,939	12,544	17,581	17,552	16,455	61,514	142,251

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Wastewater Renewal Fund	39,142	23,500	20,000	20,000	20,000	20,000	20,000	20,000	182,642
TOTAL REVENUES:	39,142	23,500	20,000	20,000	20,000	20,000	20,000	20,000	182,642
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	7,434	5,095	4,000	4,000	4,000	4,000	4,000	4,000	36,529
Major Machinery and Equipment	29,734	20,379	16,000	16,000	16,000	16,000	16,000	16,000	146,113
TOTAL EXPENDITURES:	37,168	25,474	20,000	20,000	20,000	20,000	20,000	20,000	182,642

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
WASD Revenue Bonds Sold	1,279	0	0	0	0	0	0	0	1,279
Wastewater Renewal Fund	1,132	0	500	500	500	500	500	500	4,132
TOTAL REVENUES:	2,411	0	500	500	500	500	500	500	5,411
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	1,894	517	500	500	500	500	500	500	5,411
TOTAL EXPENDITURES:	1,894	517	500	500	500	500	500	500	5,411

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WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS

PROJECT #: 964120

DESCRIPTION: Design, construct, and rehabilitate infrastructure at wastewater treatment plants to comply with EPA Consent Decree
 LOCATION: Various Sites District Located: Countywide
 Throughout Miami-Dade County District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	49,402	112,753	147,147	157,382	154,897	116,475	301,961	1,040,017
WASD Revenue Bonds Sold	274,524	0	0	0	0	0	0	0	274,524
Wastewater Renewal Fund	34,512	0	0	0	0	0	0	0	34,512
TOTAL REVENUES:	309,036	49,402	112,753	147,147	157,382	154,897	116,475	301,961	1,349,053
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	249,391	94,710	108,243	141,262	151,087	148,701	111,816	289,883	1,295,093
Major Machinery and Equipment	2,598	986	1,127	1,471	1,574	1,549	1,165	9,059	19,529
Planning and Design	7,793	2,960	3,383	4,414	4,721	4,647	3,494	3,019	34,431
TOTAL EXPENDITURES:	259,782	98,656	112,753	147,147	157,382	154,897	116,475	301,961	1,349,053

Estimated Annual Operating Impact will begin in FY 2018-19 in the amount of \$50,000,000

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	488	1,793	1,160	1,000	0	0	0	4,441
WASD Revenue Bonds Sold	200	0	0	0	0	0	0	0	200
TOTAL REVENUES:	200	488	1,793	1,160	1,000	0	0	0	4,641
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	188	459	1,686	1,091	940	0	0	0	4,364
Planning and Design	12	29	107	69	60	0	0	0	277
TOTAL EXPENDITURES:	200	488	1,793	1,160	1,000	0	0	0	4,641

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	796	796	796	796	796	796	0	4,776
WASD Revenue Bonds Sold	3,791	0	0	0	0	0	0	0	3,791
Wastewater Renewal Fund	41,754	15,000	10,000	10,000	10,000	10,000	10,000	10,000	116,754
Wastewater Special Construction Fund	2,999	0	0	0	0	0	0	0	2,999
TOTAL REVENUES:	48,544	15,796	10,796	10,796	10,796	10,796	10,796	10,000	128,320
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	45,545	15,578	10,256	10,256	10,256	10,256	10,256	9,500	121,903
Major Machinery and Equipment	479	164	108	108	108	108	108	100	1,283
Planning and Design	1,918	656	432	432	432	432	432	400	5,134
TOTAL EXPENDITURES:	47,942	16,398	10,796	10,796	10,796	10,796	10,796	10,000	128,320

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WATER - DISTRIBUTION SYSTEM EXTENSION ENHANCEMENTS

PROJECT #: 9653311

DESCRIPTION: Install various water mains throughout the distribution system

LOCATION: Systemwide
Various Sites

District Located:
District(s) Served:

Systemwide
Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	7,545	17,055	11,195	16,035	10,101	11,194	11,000	84,125
WASD Revenue Bonds Sold	68,895	0	0	0	0	0	0	0	68,895
Water Connection Charges	4,534	2,930	4,194	4,000	4,000	4,000	2,806	0	26,464
Water Renewal and Replacement Fund	35,611	2,787	0	0	0	0	0	0	38,398
Water Special Construction Fund	17,265	0	0	0	0	0	0	0	17,265
TOTAL REVENUES:	126,305	13,262	21,249	15,195	20,035	14,101	14,000	11,000	235,147
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	104,027	24,375	19,548	13,979	18,433	12,973	12,880	10,120	216,335
Land Acquisition/Improvements	1,130	264	213	152	200	141	140	110	2,350
Planning and Design	7,916	1,855	1,488	1,064	1,402	987	980	770	16,462
TOTAL EXPENDITURES:	113,073	26,494	21,249	15,195	20,035	14,101	14,000	11,000	235,147

WATER - EQUIPMENT

PROJECT #: 9650141

DESCRIPTION: Acquire equipment and associated water system capital support materials

LOCATION: Systemwide
Various Sites

District Located:
District(s) Served:

Systemwide
Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
WASD Revenue Bonds Sold	53	0	0	0	0	0	0	0	53
Water Renewal and Replacement Fund	31,723	0	5,700	5,700	5,700	5,700	5,700	5,700	65,923
TOTAL REVENUES:	31,776	0	5,700	5,700	5,700	5,700	5,700	5,700	65,976
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Major Machinery and Equipment	26,324	5,452	5,700	5,700	5,700	5,700	5,700	5,700	65,976
TOTAL EXPENDITURES:	26,324	5,452	5,700	5,700	5,700	5,700	5,700	5,700	65,976

WATER - MAIN EXTENSIONS

PROJECT #: 9651051

DESCRIPTION: Construct water main extensions funded from the special construction fund, including special taxing districts

LOCATION: Systemwide
Various Sites

District Located:
District(s) Served:

Systemwide
Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Water Special Construction Fund	755	1,000	1,000	1,000	1,000	2,000	2,000	0	8,755
TOTAL REVENUES:	755	1,000	1,000	1,000	1,000	2,000	2,000	0	8,755
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	395	1,360	1,000	1,000	1,000	2,000	2,000	0	8,755
TOTAL EXPENDITURES:	395	1,360	1,000	1,000	1,000	2,000	2,000	0	8,755

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WATER - PIPES AND INFRASTRUCTURE PROJECTS

PROJECT #: 967190

DESCRIPTION: Replace pipe and construct infrastructure repairs
 LOCATION: Countywide
 Various Sites

District Located:
 District(s) Served:

Systemwide
 Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,255	7,439	5,221	1,000	0	0	0	17,915
WASD Revenue Bonds Sold	16,481	0	0	0	0	0	0	0	16,481
Water Renewal and Replacement Fund	27,969	8,000	8,000	8,000	8,000	8,000	8,000	8,000	83,969
Water Special Construction Fund	8,000	0	0	0	0	0	0	0	8,000
TOTAL REVENUES:	52,450	12,255	15,439	13,221	9,000	8,000	8,000	8,000	126,365
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	35,484	12,399	11,425	9,783	6,660	5,920	5,920	5,920	93,511
Major Machinery and Equipment	10,548	3,686	3,396	2,909	1,980	1,760	1,760	1,760	27,799
Planning and Design	1,918	670	618	529	360	320	320	320	5,055
TOTAL EXPENDITURES:	47,950	16,755	15,439	13,221	9,000	8,000	8,000	8,000	126,365

WATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES

PROJECT #: 9650271

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

District Located:
 District(s) Served:

Systemwide
 Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,042	4,490	3,434	7,921	7,702	22,040	350	47,979
WASD Revenue Bonds Sold	435	0	0	0	0	0	0	0	435
TOTAL REVENUES:	435	2,042	4,490	3,434	7,921	7,702	22,040	350	48,414
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	409	1,920	4,220	3,229	7,446	7,240	20,718	330	45,512
Land Acquisition/Improvements	4	20	45	34	79	77	220	3	482
Major Machinery and Equipment	18	82	180	137	317	308	882	14	1,938
Planning and Design	4	20	45	34	79	77	220	3	482
TOTAL EXPENDITURES:	435	2,042	4,490	3,434	7,921	7,702	22,040	350	48,414

WATER - SYSTEM MAINTENANCE AND UPGRADES

PROJECT #: 9650181

DESCRIPTION: Maintain and develop existing water system facilities, structures, and equipment
 LOCATION: Systemwide
 Various Sites

District Located:
 District(s) Served:

Systemwide
 Systemwide

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
WASD Revenue Bonds Sold	5,900	0	0	0	0	0	0	0	5,900
Water Renewal and Replacement Fund	37,299	21,680	23,000	23,000	23,000	23,000	23,000	23,000	196,979
TOTAL REVENUES:	43,199	21,680	23,000	23,000	23,000	23,000	23,000	23,000	202,879
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	41,471	20,812	22,080	22,080	22,080	22,080	22,080	22,080	194,763
Planning and Design	1,728	868	920	920	920	920	920	920	8,116
TOTAL EXPENDITURES:	43,199	21,680	23,000	23,000	23,000	23,000	23,000	23,000	202,879

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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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Water Renewal and Replacement Fund	1,306	318	300	300	300	300	300	300	3,424
TOTAL REVENUES:	1,306	318	300	300	300	300	300	300	3,424
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	600	146	138	138	138	138	138	138	1,574
Major Machinery and Equipment	706	172	162	162	162	162	162	162	1,850
TOTAL EXPENDITURES:	1,306	318	300	300	300	300	300	300	3,424

WATER SYSTEM - FIRE HYDRANT INSTALLATION

PROJECT #: 9653461

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

REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Fire Hydrant Fund	8,309	3,500	3,500	3,500	3,500	3,500	3,500	5,921	35,230
TOTAL REVENUES:	8,309	3,500	3,500	3,500	3,500	3,500	3,500	5,921	35,230
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	6,270	3,430	3,430	3,430	3,430	3,430	3,430	7,675	34,525
Planning and Design	128	70	70	70	70	70	70	157	705
TOTAL EXPENDITURES:	6,398	3,500	3,500	3,500	3,500	3,500	3,500	7,832	35,230

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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	19,900	16,843	8,126	6,472	7,955	4,794	49,000	113,090
WASD Revenue Bonds Sold	8,620	0	0	0	0	0	0	0	8,620
Water Renewal and Replacement Fund	7,616	0	0	0	0	0	0	0	7,616
TOTAL REVENUES:	16,236	19,900	16,843	8,126	6,472	7,955	4,794	49,000	129,326
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	14,079	18,804	15,328	7,395	5,889	7,239	4,363	44,590	117,687
Major Machinery and Equipment	156	207	168	81	65	80	48	490	1,295
Planning and Design	1,237	1,653	1,347	650	518	636	383	3,920	10,344
TOTAL EXPENDITURES:	15,472	20,664	16,843	8,126	6,472	7,955	4,794	49,000	129,326

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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
Hialeah

District Located: 6
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
WASD Revenue Bonds Sold	4,000	0	0	0	0	0	0	0	4,000
Water Connection Charges	1,583	0	0	0	0	0	0	0	1,583
Water Renewal and Replacement Fund	1,794	0	0	0	0	0	0	0	1,794
TOTAL REVENUES:	7,377	0	0	0	0	0	0	0	7,377
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	6,480	676	0	0	0	0	0	0	7,156
Planning and Design	200	21	0	0	0	0	0	0	221
TOTAL EXPENDITURES:	6,680	697	0	0	0	0	0	0	7,377

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, filter backwash water tank; install two emergency generators; construct chlorine facilities; and various upgrades to plant and remote storage

LOCATION: 700 W 2 Ave and 1100 W 2 Ave
Hialeah

District Located: 6
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	18,224	12,949	2,191	489	1,011	0	0	34,864
WASD Revenue Bonds Sold	9,606	0	0	0	0	0	0	0	9,606
TOTAL REVENUES:	9,606	18,224	12,949	2,191	489	1,011	0	0	44,470
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	7,588	14,397	10,230	1,731	386	799	0	0	35,131
Land Acquisition/Improvements	1,345	2,551	1,813	307	69	142	0	0	6,227
Planning and Design	673	1,276	906	153	34	70	0	0	3,112
TOTAL EXPENDITURES:	9,606	18,224	12,949	2,191	489	1,011	0	0	44,470

Estimated Annual Operating Impact will begin in FY 2019-20 in the amount of \$15,000,000

WATER TREATMENT PLANTS - AUTOMATION

PROJECT #: 963110

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

LOCATION: Systemwide
Various Sites

District Located: Systemwide
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,000	0	0	0	0	0	0	1,000
WASD Revenue Bonds Sold	1,247	0	0	0	0	0	0	0	1,247
TOTAL REVENUES:	1,247	1,000	0	0	0	0	0	0	2,247
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	1,247	1,000	0	0	0	0	0	0	2,247
TOTAL EXPENDITURES:	1,247	1,000	0	0	0	0	0	0	2,247

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WATER TREATMENT PLANTS - 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	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	0	229	1,000	1,000	545	2,774
WASD Revenue Bonds Sold	4,085	0	0	0	0	0	0	0	4,085
Water Renewal and Replacement Fund	20,106	8,216	2,500	2,500	2,500	2,500	2,500	2,500	43,322
TOTAL REVENUES:	24,191	8,216	2,500	2,500	2,729	3,500	3,500	3,045	50,181
EXPENDITURE SCHEDULE:	PRIOR	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	FUTURE	TOTAL
Construction	18,879	11,582	2,350	2,350	2,566	3,290	3,290	2,862	47,169
Major Machinery and Equipment	402	247	50	50	54	70	70	61	1,004
Planning and Design	804	493	100	100	109	140	140	122	2,008
TOTAL EXPENDITURES:	20,085	12,322	2,500	2,500	2,729	3,500	3,500	3,045	50,181

UNFUNDED CAPITAL PROJECTS

PROJECT NAME	LOCATION	(dollars in thousands) ESTIMATED PROJECT COST
SOUTH DADE WASTE WATER TREATMENT PLANT - COMBINED HEAT & POWER ABSORPTION CHILLER SYSTEM	Throughout Miami-Dade County	1,829
SOUTH DADE WASTE WATER TREATMENT PLANT - PHOTOVOLTAIC SOLAR CANOPIES FOR ADMINISTRATIVE BUILDING PARKING LOT	Throughout Miami-Dade County	2,722
SOUTH MIAMI HEIGHTS - NEW WATER TREATMENT PLANT	Throughout Miami-Dade County	263,956
SURFACE WATER TREATMENT- PLANT	Throughout Miami-Dade County	426,862
SYSTEMWIDE - INSTALLATION OF 18 METERS, FITTINGS, AND MONITORING SYSTEMS	Throughout Miami-Dade County	1,000
WASTERWATER - PEAK FLOW PUMP STATION UPGRADES	Throughout Miami-Dade County	764,401
WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT (PHASE 2 - GRAVITY AND FORCE MAINS)	Throughout Miami-Dade County	11,297
WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT (PHASE 3 - GRAVITY AND FORCE MAINS)	Throughout Miami-Dade County	194,578
WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT (PHASE 3 - PUMP STATIONS)	Throughout Miami-Dade County	15,457
WASTEWATER - CORAL GABLES BOOSTER PUMP STATION	Throughout Miami-Dade County	30,823
WASTEWATER - CORAL GABLES REROUTE FORCE MAIN	Throughout Miami-Dade County	18,884
WASTEWATER - DORAL BASIN UPGRADE	NW 74 St from NW 97 to NW 107 Ave	4,178
WASTEWATER - NEEDS ASSESSMENT (PHASE 2 - NEW GRAVITY SEWER)	Throughout Miami-Dade County	199,867
WASTEWATER - UPGRADE WHOLESALE FLOW METERS	Throughout Miami-Dade County	17,100
WASTEWATER - WEST DISTRICT TREATMENT PLANT (PHASE 2)	Throughout Miami-Dade County	367,592
WASTEWATER - XR-1 REUSE PROJECTS	Throughout Miami-Dade County	95,000
WATER - AUTOMATED METER READING	Throughout Miami-Dade County	160,000
WATER - COMMERCIAL CORRIDOR ECONOMIC DEVELOPMENT (PHASE 2)	Throughout Miami-Dade County	576,132
WATER - SALT FRONT MONITORING WELLS	Throughout Miami-Dade County	970
WATER - SYSTEM BETTERMENT (REPLACEMENT 6,000 LINEAR FEET)	NE 36 Ct and Turnberry Way from William Lehman	2,586
UNFUNDED TOTAL		3,155,234