

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

Water and Sewer

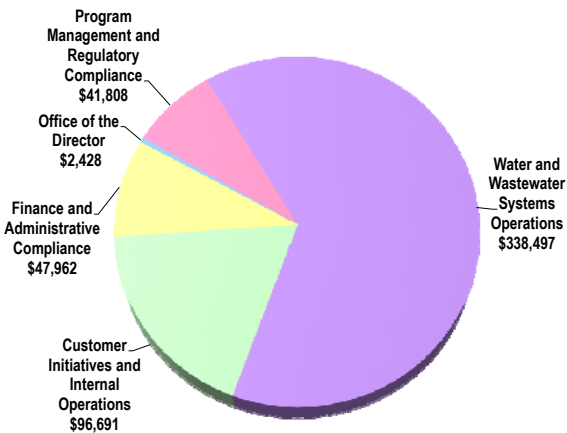
The Miami-Dade Water and Sewer Department (WASD) provides high-quality drinking water and wastewater disposal services, safeguarding public health and the environment, while planning for future growth, implementing water conservation measures, and providing for process improvements and cost efficiencies.

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 8,500 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.

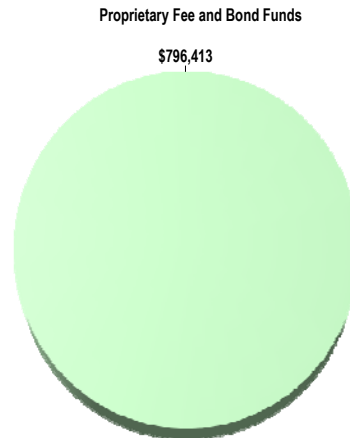
The Department delivers water and sewer services to most residents and businesses within Miami-Dade County, serving approximately 441,000 water and 357,000 wastewater retail customers as of September 30, 2016. Additionally, service is provided to 15 wholesale (municipal) water customers and to 13 wholesale (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 2017-18 Adopted Budget

Expenditures by Activity
(dollars in thousands)



Revenues by Source
(dollars in thousands)



FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

TABLE OF ORGANIZATION

	<p><u>OFFICE OF THE DIRECTOR</u></p> <ul style="list-style-type: none"> Formulates and establishes departmental policy; directs overall operations. <table style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"><u>FY 16-17</u></td> <td style="text-align: center;"><u>FY 17-18</u></td> </tr> <tr> <td style="text-align: center;">26</td> <td style="text-align: center;">9</td> </tr> </table>	<u>FY 16-17</u>	<u>FY 17-18</u>	26	9
<u>FY 16-17</u>	<u>FY 17-18</u>				
26	9				
	<p><u>WATER AND WASTEWATER SYSTEMS OPERATIONS</u></p> <ul style="list-style-type: none"> Operates and maintains water and wastewater systems: treatment plants, transmission/ distribution systems and pump stations <table style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"><u>FY 16-17</u></td> <td style="text-align: center;"><u>FY 17-18</u></td> </tr> <tr> <td style="text-align: center;">1,648</td> <td style="text-align: center;">1,501</td> </tr> </table>	<u>FY 16-17</u>	<u>FY 17-18</u>	1,648	1,501
<u>FY 16-17</u>	<u>FY 17-18</u>				
1,648	1,501				
	<p><u>FINANCE AND ADMINISTRATIVE COMPLIANCE</u></p> <ul style="list-style-type: none"> Directs financial, budget, capital funding coordination, and information technology functions; directs contractual compliance and quality assurance of construction/contractual work as well as compliance with the Small Business Enterprise Program <table style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"><u>FY 16-17</u></td> <td style="text-align: center;"><u>FY 17-18</u></td> </tr> <tr> <td style="text-align: center;">750</td> <td style="text-align: center;">324</td> </tr> </table>	<u>FY 16-17</u>	<u>FY 17-18</u>	750	324
<u>FY 16-17</u>	<u>FY 17-18</u>				
750	324				
	<p><u>PROGRAM MANAGEMENT AND REGULATORY COMPLIANCE</u></p> <ul style="list-style-type: none"> Manages capital improvement program and consent decree projects; directs compliance with state and federal agreements and utilities development <table style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"><u>FY 16-17</u></td> <td style="text-align: center;"><u>FY 17-18</u></td> </tr> <tr> <td style="text-align: center;">400</td> <td style="text-align: center;">320</td> </tr> </table>	<u>FY 16-17</u>	<u>FY 17-18</u>	400	320
<u>FY 16-17</u>	<u>FY 17-18</u>				
400	320				
	<p><u>CUSTOMER INITIATIVES AND INTERNAL OPERATIONS</u></p> <ul style="list-style-type: none"> Directs legislative activities, municipal policies, and public information dissemination; directs customer service, procurement, personnel, fleet and general activities <table style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"><u>FY 16-17</u></td> <td style="text-align: center;"><u>FY 17-18</u></td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">693</td> </tr> </table>	<u>FY 16-17</u>	<u>FY 17-18</u>	0	693
<u>FY 16-17</u>	<u>FY 17-18</u>				
0	693				

The FY 2017-18 total number of full-time equivalent positions is 2,847

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

FINANCIAL SUMMARY

(dollars in thousands)	Actual FY 14-15	Actual FY 15-16	Budget FY 16-17	Adopted FY 17-18
Revenue Summary				
Carryover	59,430	63,834	68,551	71,638
Miscellaneous Non-Operating	1,475	1,876	1,502	2,351
Other Revenues	28,305	28,685	27,980	30,253
Retail Wastewater	252,737	273,058	283,752	303,747
Retail Water	233,464	247,088	263,203	275,311
Transfer From Other Funds	5,000	5,000	0	4,084
Wholesale Wastewater	61,802	82,379	80,166	73,778
Wholesale Water	37,008	28,572	28,242	35,251
Loan Repayments	5,000	5,000	5,000	0
Total Revenues	684,221	735,492	758,396	796,413
Operating Expenditures Summary				
Salary	162,569	165,050	170,136	177,634
Fringe Benefits	51,008	56,857	61,882	66,895
Contractual Services	75,619	89,839	99,473	103,861
Other Operating	39,513	28,390	46,939	43,990
Charges for County Services	47,147	48,353	51,398	52,814
Capital	72,648	67,547	82,469	82,192
Total Operating Expenditures	448,504	456,036	512,297	527,386
Non-Operating Expenditures Summary				
Transfers	0	5,000	1,175	0
Distribution of Funds In Trust	0	0	0	0
Debt Service	164,722	169,392	173,286	194,828
Depreciation, Amortizations and Depletion	0	0	0	0
Reserve	0	0	71,638	74,199
Total Non-Operating Expenditures	164,722	174,392	246,099	269,027

(dollars in thousands)	Total Funding		Total Positions	
Expenditure By Program	Budget FY 16-17	Adopted FY 17-18	Budget FY 16-17	Adopted FY 17-18
Strategic Area: Neighborhood and Infrastructure				
Office of the Director	3,154	2,428	26	9
Water and Wastewater	356,945	338,497	1,648	1,501
Systems Operations				
Finance and Administrative Compliance	108,966	47,962	750	324
Program Management and Regulatory Compliance	43,232	41,808	400	320
Customer Initiatives and Internal Operations	0	96,691	0	693
Total Operating Expenditures	512,297	527,386	2,824	2,847

SELECTED ITEM HIGHLIGHTS AND DETAILS

Line Item Highlights	(dollars in thousands)				
	Actual FY 14-15	Actual FY 15-16	Budget FY 16-17	Actual FY 16-17	Budget FY 17-18
Advertising	632	748	810	731	920
Fuel	3,084	2,247	3,609	2,584	2,981
Overtime	16,037	17,886	12,503	14,795	15,534
Rent	104	206	2,187	1,255	1,098
Security Services	12,952	12,061	14,800	13,581	16,260
Temporary Services	2,181	2,267	3,320	1,597	2,926
Travel and Registration	151	172	321	210	351

FY 2017 - 18 Adopted 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

- Over the last eight years, average water usage has decreased by 12 percent due to proactive conservation and low flow water fixtures; this 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 2017-18 Adopted Budget includes a modification to the Department's current tier-based fee structure that will maximize revenues and eliminate some subsidization between tiers, while maintaining current rates; under the revised rate structure, the monthly bill for the median retail water and sewer residential customer which uses approximately 700 cubic feet (7ccf) per month (or 5,236 gallons) will be \$42.53, or \$7.44 higher from the current estimated bill of \$35.10; the FY 2017-18 Adopted Budget includes a six percent increase in revenues generated by these adjustments to cover current and future operational and debt obligations
- The FY 2017-18 Adopted Budget includes a two percent reduction of the Utility Service Fee (USF) currently applied to all retail Water and Sewer customers' bills to fund landfill remediation and other USF eligible projects; the total USF is currently eight percent, with four percent going to the Department of Regulatory and Economic Resources for ground water protection activities and four percent going to the Department of Solid Waste Management (DSWM) for landfill remediation; increased collections due to escalation of Water and Sewer rates has generated revenues in excess of that needed for debt service payments and other landfill remediation activities in DSWM
- Effective October 1, 2017, the wholesale wastewater rate will increase to \$3.0937 from \$2.9477, or by \$0.146 per thousand gallons; the water wholesale rate will increase to \$1.8341 from \$1.7341, or by \$0.10 per thousand gallons; wholesale customers' bills include a true-up adjustment to recover actual cost for FY 2015-16
- The FY 2017-18 Adopted Budget includes the addition of a rate category for mixed-use buildings with one meter serving both residential and non-residential areas
- The FY 2017-18 Adopted Budget includes a Memorandum of Understanding with the Office of the Inspector General to perform specialized audits as required (\$150,000)
- The FY 2017-18 Adopted Budget includes payments to the Audit and Management Services Department for expenses associated with audits and reviews (\$500,000)
- The FY 2017-18 Adopted Budget includes funding to the Miami-Dade Fire Rescue Department (MDFR) for fire hydrant maintenance (\$1 million)

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
- 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

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

Strategic Objectives - Measures								
<ul style="list-style-type: none"> NI2-1: Provide adequate potable water supply and wastewater disposal 								
Objectives	Measures			FY 14-15	FY 15-16	FY 16-17	FY 16-17	FY 17-18
				Actual	Actual	Budget	Actual	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	↑	1,782	908	1,124	271	200
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	↑	67%	93%	100%	100%	100%
	Percentage of pumps in service	EF	↑	97%	98%	99%	98%	99%
	Wastewater mainline valves exercised	OP	↔	6,167	6,241	6,000	6,346	6,000

*The FY 2016-17 actual and FY 2017-18 target 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: 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 divisions
- Oversees contract compliance, provides strategic planning, and directs performance improvement and efficiency savings programs

Strategic Objectives - Measures								
<ul style="list-style-type: none"> GG4-1: Provide sound financial and risk management 								
Objectives	Measures			FY 14-15	FY 15-16	FY 16-17	FY 16-17	FY 17-18
				Actual	Actual	Budget	Actual	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

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

DIVISION COMMENTS

- The FY 2017-18 Adopted Budget includes payments to the Finance Department for expenses associated with cash management services (\$6,000) and for expenses associated with credit and collection services (payments are based on a percentage of collected revenue)
- The FY 2016-17 year-end combined fund balance is projected to be \$101.9 million in rate stabilization and general reserve funds; in FY 2017-18, the Department will also be funding an additional reserve of \$13.9 million in order to strengthen bonding capacity and meet additional bonds test necessary to issue debt to support the Department's \$13 billion capital program; a combined balance of \$115.7 million is projected between these reserves, and the Department will have a year-end fund balance of \$74.2 million in the operating budget as required for bond ordinances
- The FY 2017-18 Adopted Budget includes an additional two Customer Service Representative positions to help improve retail revenue collections

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 14-15	FY 15-16	FY 16-17	FY 16-17	FY 17-18
				Actual	Actual	Budget	Actual	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	↑	100%	99%	100%	95%	97%
	Percentage of Ocean Outfall Legislation projects on schedule	OC	↑	100%	100%	100%	100%	100%

DIVISION COMMENTS

- In FY 2017-18, 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 2017-18 Adopted Budget includes funding to the Parks, Recreation and Open Spaces (PROS) Department for Cooperative Extension's Florida Yards and Neighborhoods Program (\$285,000)

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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
- Manages water cross connection control program
- Installs, repairs, relocates, maintains and replaces water meters

Strategic Objectives - Measures

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

Objectives	Measures			FY 14-15	FY 15-16	FY 16-17	FY 16-17	FY 17-18
				Actual	Actual	Budget	Actual	Target
Provide information to customers in a timely manner	Average call wait time (in minutes)*	EF	↓	8	3	5	2.3	2.5
	Percentage of calls answered within two minutes (monthly)*	OC	↑	41%	60%	50%	65%	70%
Maintain high level of responsiveness to customer service requests	Percentage of non-emergency requests dispatched in less than three business days	OC	↑	98%	88%	99%	94%	97%

*Enhancements to customer self-service tools are planned for FY 2017-18

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

Objectives	Measures			FY 14-15	FY 15-16	FY 16-17	FY 16-17	FY 17-18
				Actual	Actual	Budget	Actual	Target
Training hours per employee	Training hours per employee	OP	↔	11	13	15	15	15

DIVISION COMMENTS

- The Department is currently working on an advertising 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 2017-18 Adopted Budget includes an additional 12 Customer Service Representative positions transferred from Communications due to elimination of the call center service level agreement and seven additional Customer Service Representatives and two meter reader positions to help meet the demands of customers and improve call wait time
- The FY 2017-18 Adopted Budget includes a payment to the Human Resources Department for testing and validation services (\$40,000)
- The FY 2017-18 Adopted Budget includes a payment to the Community Action and Human Services Department for landscape maintenance by the Greater Miami Service Corp

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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 accommodate the vast amount of 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 17 positions in Water and Wastewater Systems Operations to address current backlog of 1,092 leaks and the additional 1,200 leaks identified annually by the leak detection program; the expedient repairs allow the Department to realize savings by reduced non-revenue water loss throughout the system	\$0	\$173	17
Fund nine positions in the water treatment plants operated 24 hours per day, 365 days per year; Treatment Plant Operators work on a rotating shift schedule with rotating days off; the additional positions are needed to run the plans more effectively and reduce overtime	\$0	\$144	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 assisting 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 allow for additional sampling requirements for the southwestern end of Miami-Dade County; increased regulatory requirements, as well as a greater population and larger service area has created the need for an additional laboratory technician; lab technicians are responsible for sample collection and handling	\$0	\$140	2
Fund 13 positions to address an increase in the Capital Improvement Program project workload; the additional staff is required to effectively oversee and coordinate contracted construction and consultant work to ensure public safety and to protect the County's interests	\$0	\$1,113	13
Fund nine positions in Program Management and Regulatory Compliance to improve customer service related to plans review processing; as-builts are often submitted inaccurately, which requires multiple reviews and inspections	\$0	\$630	9
Fund six positions to manage and supervise staff functions related to cash collections (three for Opa-Locka operations), 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	\$5,558	99

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

CAPITAL BUDGET SUMMARY

(dollars in thousands)	PRIOR	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FUTURE	TOTAL
Revenue									
BBC GOB Financing	13,521	13,332	19,512	20,613	24,209	25,425	25,586	14,783	156,981
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	2,606	0	0	0	0	0	0	0	2,606
BBC GOB Series 2013A	246	0	0	0	0	0	0	0	246
BBC GOB Series 2014A	1,531	0	0	0	0	0	0	0	1,531
Fire Hydrant Fund	38,221	3,500	3,500	3,500	3,500	3,500	3,500	5,921	65,142
Future WASD Revenue Bonds	0	400,000	396,902	392,750	429,630	428,438	459,476	7,396,503	9,903,699
Miami Springs Wastewater Construction Fund	1,074	252	0	0	0	0	0	0	1,326
Miami Springs Water Construction Fund	1,753	1,003	2,310	2,008	1,000	0	0	0	8,074
Rock Mining Mitigation Fees	13,451	5,239	0	0	0	0	0	0	18,690
State Revolving Loan Wastewater Program	19,888	0	0	0	0	0	0	0	19,888
State Revolving Loan Water Program	18,778	3,019	1,048	0	0	0	0	0	22,845
WASD Future Funding	0	0	0	0	0	0	0	984,530	984,530
WASD Revenue Bonds Sold	728,921	0	0	0	0	0	0	0	728,921
Wastewater Connection Charges	144,336	7,045	7,161	0	0	0	0	0	158,542
Wastewater Renewal Fund	196,078	40,000	45,500	45,500	45,500	45,500	45,500	214,000	677,578
Wastewater Special Construction Fund	28,219	0	0	0	0	0	0	0	28,219
Water Connection Charges	16,417	34,570	8,197	0	0	0	0	0	59,184
Water Renewal and Replacement Fund	165,183	40,000	34,500	34,500	34,500	34,500	34,500	34,500	412,183
Water Special Construction Fund	31,682	0	1,000	1,000	1,000	2,000	2,000	0	38,682
Total:	1,432,515	547,960	519,630	499,871	539,339	539,363	570,562	8,650,237	13,299,477
Expenditures									
Strategic Area: NI									
GOB Water and Wastewater Projects	28,514	13,332	19,512	20,613	24,209	25,425	25,586	14,783	171,974
Wastewater Projects	928,832	361,423	329,448	342,670	387,012	412,123	448,850	7,236,809	10,447,167
Water Projects	413,335	217,447	173,170	139,088	130,618	104,315	103,718	1,398,645	2,680,336
Total:	1,370,681	592,202	522,130	502,371	541,839	541,863	578,154	8,650,237	13,299,477

CAPITAL HIGHLIGHTS AND OPERATIONAL IMPACTS

- 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 2017-18 Adopted Budget and Multi-Year Capital Plan includes the continued implementation of various wastewater system capital projects that include but are not limited to the North Miami-Dade - Wastewater Transmission Mains and Pump Stations Improvements (\$474.962 million) and the Wastewater - Telemetry System (\$7.421 million); these projects will allow the Department to increase the wastewater systems' flexibility, and improve their ability to monitor and control wastewater flows and pressures at various pump stations throughout the system; the estimated annual operating impact to the department will begin in FY 2017-18 in the amount of \$2.34 million
- The Department's FY 2017-18 Adopted Budget and Multi-Year Capital Plan also includes the continued implementation of various water system capital projects that include but are not limited to the South Miami Heights-Water Treatment Plant and Wellfield (\$302.177 million) and Safe Drinking Water Act Modifications (\$513.649 million); these projects will construct a water treatment plant, wellfields and various water transmission mains in south Miami-Dade County and modify water treatment to comply with Surface Water Treatment and Disinfectant/Disinfection By Product Regulations; the estimated annual operating impact to the Department will begin in FY 2018-19 in the amount of \$30 million
- The FY17-18 Adopted Budget and Multi-Year Capital Plan includes an \$80 million transfer from operations into the Renewal and Replacement funds; these funds will be used for the Department's enhanced capital program to expedite the replacement and rehabilitation of the aging infrastructure to include pipes and plant facilities

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

- As a result of the Department's Consent Decree, which requires the rehabilitation of the County's wastewater system infrastructure, wastewater treatment plant projects were evaluated for improvements including opportunities for new technology and efficiencies; the Department will upgrade its digesters with new mixers resulting in a more efficient and improved performance providing additional methane gas production; the methane gas produced will be used to fuel cogeneration engines providing additional alternative energy for use within the plant; the quantified savings resulting is approximately \$1 million in operating costs over the asset's 20-year life cycle

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
City of Miami

District Located: 7
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,500	2,870	5,281	3,120	1,000	986	108,625	124,382
WASD Future Funding	0	0	0	0	0	0	0	7,514	7,514
WASD Revenue Bonds Sold	4,074	0	0	0	0	0	0	0	4,074
TOTAL REVENUES:	4,074	2,500	2,870	5,281	3,120	1,000	986	116,139	135,970
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	3,952	2,425	2,784	5,123	3,026	970	956	112,655	131,891
Planning and Design	122	75	86	158	94	30	30	3,484	4,079
TOTAL EXPENDITURES:	4,074	2,500	2,870	5,281	3,120	1,000	986	116,139	135,970

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
City of Miami

District Located: Systemwide
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,348	5,189	5,779	5,402	4,816	5,500	4,000	33,034
WASD Future Funding	0	0	0	0	0	0	0	828	828
WASD Revenue Bonds Sold	8,450	0	0	0	0	0	0	0	8,450
Wastewater Connection Charges	2,977	0	0	0	0	0	0	0	2,977
TOTAL REVENUES:	11,427	2,348	5,189	5,779	5,402	4,816	5,500	4,828	45,289
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	10,856	2,231	4,929	5,490	5,132	4,575	5,225	4,587	43,025
Land Acquisition/Improvements	115	23	52	58	54	48	55	48	453
Planning and Design	456	94	208	231	216	193	220	193	1,811
TOTAL EXPENDITURES:	11,427	2,348	5,189	5,779	5,402	4,816	5,500	4,828	45,289

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

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	698	2,355	3,767	6,356	10,338	12,981	30,264	66,759
TOTAL REVENUES:	0	698	2,355	3,767	6,356	10,338	12,981	30,264	66,759
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	0	698	2,355	3,767	6,356	10,338	12,981	30,264	66,759
TOTAL EXPENDITURES:	0	698	2,355	3,767	6,356	10,338	12,981	30,264	66,759

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
BBC GOB Financing	2,287	6,471	13,926	16,886	20,636	25,425	25,586	14,783	126,000
TOTAL REVENUES:	2,287	6,471	13,926	16,886	20,636	25,425	25,586	14,783	126,000
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,143	5,300	12,549	16,886	20,636	25,425	25,586	14,783	122,308
Planning and Design	1,144	1,171	1,377	0	0	0	0	0	3,692
TOTAL EXPENDITURES:	2,287	6,471	13,926	16,886	20,636	25,425	25,586	14,783	126,000

CORROSION CONTROL - FACILITIES IMPROVEMENTS

PROJECT #: 9653381



DESCRIPTION: Construct corrosion control facilities and force mains; renovate structures at wastewater treatment plants and pump stations; and restore sewer mains
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	100	300	400	400	500	0	0	1,700
WASD Revenue Bonds Sold	912	0	0	0	0	0	0	0	912
TOTAL REVENUES:	912	100	300	400	400	500	0	0	2,612
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	912	100	300	400	400	500	0	0	2,612
TOTAL EXPENDITURES:	912	100	300	400	400	500	0	0	2,612

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

GRAVITY SEWER RENOVATIONS

PROJECT #: 9650201

DESCRIPTION: Rehabilitate gravity sewers to reduce infiltration and inflow
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,258	4,550	3,650	3,350	1,224	1,000	500	16,532
WASD Revenue Bonds Sold	9,699	0	0	0	0	0	0	0	9,699
Wastewater Renewal Fund	9,349	0	0	0	0	0	0	0	9,349
TOTAL REVENUES:	19,048	2,258	4,550	3,650	3,350	1,224	1,000	500	35,580
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	19,048	2,258	4,550	3,650	3,350	1,224	1,000	500	35,580
TOTAL EXPENDITURES:	19,048	2,258	4,550	3,650	3,350	1,224	1,000	500	35,580

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,886	1,627	2,000	1,500	500	1,000	5,000	13,513
WASD Revenue Bonds Sold	2,187	0	0	0	0	0	0	0	2,187
Wastewater Renewal Fund	7,915	0	3,500	3,500	3,500	3,500	3,500	3,500	28,915
TOTAL REVENUES:	10,102	1,886	5,127	5,500	5,000	4,000	4,500	8,500	44,615
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	5,262	4,329	4,101	4,400	4,000	3,200	3,600	6,800	35,692
Land Acquisition/Improvements	460	379	359	385	350	280	315	595	3,123
Major Machinery and Equipment	198	162	154	165	150	120	135	255	1,339
Planning and Design	657	541	513	550	500	400	450	850	4,461
TOTAL EXPENDITURES:	6,577	5,411	5,127	5,500	5,000	4,000	4,500	8,500	44,615

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 proprietary SCADA system
 LOCATION: Various Sites District Located: 6
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
BBC GOB Financing	171	75	25	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:	738	75	25	0	0	0	0	0	838
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	738	75	25	0	0	0	0	0	838
TOTAL EXPENDITURES:	738	75	25	0	0	0	0	0	838

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Miami Springs Wastewater Construction Fund	1,074	252	0	0	0	0	0	0	1,326
TOTAL REVENUES:	1,074	252	0	0	0	0	0	0	1,326
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,074	252	0	0	0	0	0	0	1,326
TOTAL EXPENDITURES:	1,074	252	0	0	0	0	0	0	1,326

MIAMI SPRINGS CONSTRUCTION FUND - WATER

PROJECT #: 965450

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

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Miami Springs Water Construction Fund	1,753	1,003	2,310	2,008	1,000	0	0	0	8,074
TOTAL REVENUES:	1,753	1,003	2,310	2,008	1,000	0	0	0	8,074
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,631	933	2,148	1,867	930	0	0	0	7,509
Planning and Design	122	70	162	141	70	0	0	0	565
TOTAL EXPENDITURES:	1,753	1,003	2,310	2,008	1,000	0	0	0	8,074

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
BBC GOB Financing	4,532	4,053	2,395	624	279	0	0	0	11,883
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:	10,294	4,053	2,395	624	279	0	0	0	17,645
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	8,867	4,053	2,395	624	279	0	0	0	16,218
Permitting	179	0	0	0	0	0	0	0	179
Planning and Design	1,248	0	0	0	0	0	0	0	1,248
TOTAL EXPENDITURES:	10,294	4,053	2,395	624	279	0	0	0	17,645

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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
North Miami

District Located: 4
District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	3,946	1,758	3,754	5,463	4,600	3,490	149,431	172,442
WASD Revenue Bonds Sold	1,861	0	0	0	0	0	0	0	1,861
TOTAL REVENUES:	1,861	3,946	1,758	3,754	5,463	4,600	3,490	149,431	174,303
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,750	3,709	1,653	3,529	5,135	4,324	3,280	140,465	163,845
Planning and Design	111	237	105	225	328	276	210	8,966	10,458
TOTAL EXPENDITURES:	1,861	3,946	1,758	3,754	5,463	4,600	3,490	149,431	174,303

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,696	3,480	7,065	12,547	13,616	12,751	58,952	110,107
WASD Future Funding	0	0	0	0	0	0	0	364,515	364,515
WASD Revenue Bonds Sold	340	0	0	0	0	0	0	0	340
TOTAL REVENUES:	340	1,696	3,480	7,065	12,547	13,616	12,751	423,467	474,962
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	330	1,645	3,376	6,853	12,171	13,207	12,368	410,763	460,713
Land Acquisition/Improvements	10	51	104	212	376	409	383	12,704	14,249
TOTAL EXPENDITURES:	340	1,696	3,480	7,065	12,547	13,616	12,751	423,467	474,962

Estimated Annual Operating Impact will begin in FY 2017-18 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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	11,168	16,254	4,431	1,920	1,008	0	0	34,781
WASD Revenue Bonds Sold	3,239	0	0	0	0	0	0	0	3,239
Water Connection Charges	7,000	25,240	0	0	0	0	0	0	32,240
TOTAL REVENUES:	10,239	36,408	16,254	4,431	1,920	1,008	0	0	70,260
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	9,523	33,859	15,116	4,121	1,785	938	0	0	65,342
Planning and Design	716	2,549	1,138	310	135	70	0	0	4,918
TOTAL EXPENDITURES:	10,239	36,408	16,254	4,431	1,920	1,008	0	0	70,260

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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 District Located: 2
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
BBC GOB Financing	3,267	982	1,227	1,718	2,394	0	0	0	9,588
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:	3,900	982	1,227	1,718	2,394	0	0	0	10,221
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	3,710	982	1,227	1,718	2,394	0	0	0	10,031
Planning and Design	190	0	0	0	0	0	0	0	190
TOTAL EXPENDITURES:	3,900	982	1,227	1,718	2,394	0	0	0	10,221

OUTFALL LEGISLATION

PROJECT #: 962670



DESCRIPTION: Eliminate outfall flows to the ocean
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	24,147	20,250	45,222	54,288	65,814	98,582	3,842,589	4,150,892
State Revolving Loan Wastewater Program	19,888	0	0	0	0	0	0	0	19,888
WASD Revenue Bonds Sold	49,111	0	0	0	0	0	0	0	49,111
Wastewater Connection Charges	11,875	0	0	0	0	0	0	0	11,875
TOTAL REVENUES:	80,874	24,147	20,250	45,222	54,288	65,814	98,582	3,842,589	4,231,766
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	73,596	21,973	18,428	41,152	49,402	59,891	89,709	3,496,756	3,850,907
Land Acquisition/Improvements	808	242	202	452	543	658	986	38,426	42,317
Planning and Design	6,470	1,932	1,620	3,618	4,343	5,265	7,887	307,407	338,542
TOTAL EXPENDITURES:	80,874	24,147	20,250	45,222	54,288	65,814	98,582	3,842,589	4,231,766

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

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

OUTFALL LEGISLATION - CAPACITY

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	22,372	29,836	44,999	57,385	69,201	92,597	1,179,247	1,495,637
WASD Revenue Bonds Sold	7,995	0	0	0	0	0	0	0	7,995
Wastewater Connection Charges	5,477	0	0	0	0	0	0	0	5,477
TOTAL REVENUES:	13,472	22,372	29,836	44,999	57,385	69,201	92,597	1,179,247	1,509,109
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	12,395	20,582	27,449	41,399	52,794	63,665	85,189	1,084,908	1,388,381
Land Acquisition/Improvements	134	224	299	450	574	692	926	11,792	15,091
Planning and Design	943	1,566	2,088	3,150	4,017	4,844	6,482	82,547	105,637
TOTAL EXPENDITURES:	13,472	22,372	29,836	44,999	57,385	69,201	92,597	1,179,247	1,509,109

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	9,243	8,195	5,000	2,000	1,000	1,000	0	26,438
WASD Revenue Bonds Sold	1,675	0	0	0	0	0	0	0	1,675
Wastewater Connection Charges	50,932	0	0	0	0	0	0	0	50,932
TOTAL REVENUES:	52,607	9,243	8,195	5,000	2,000	1,000	1,000	0	79,045
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	51,554	9,058	8,031	4,900	1,960	980	980	0	77,463
Planning and Design	1,053	185	164	100	40	20	20	0	1,582
TOTAL EXPENDITURES:	52,607	9,243	8,195	5,000	2,000	1,000	1,000	0	79,045

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,600	8,121	11,696	12,298	17,953	9,740	37,715	99,123
WASD Revenue Bonds Sold	1,453	0	0	0	0	0	0	0	1,453
TOTAL REVENUES:	1,453	1,600	8,121	11,696	12,298	17,953	9,740	37,715	100,576
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,394	1,536	7,796	11,228	11,807	17,235	9,350	36,206	96,552
Major Machinery and Equipment	59	64	325	468	491	718	390	1,509	4,024
TOTAL EXPENDITURES:	1,453	1,600	8,121	11,696	12,298	17,953	9,740	37,715	100,576

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	32,138	34,862	3,000	4,000	5,000	6,000	94,467	179,467
WASD Revenue Bonds Sold	35,425	0	0	0	0	0	0	0	35,425
Wastewater Connection Charges	35,660	7,045	7,161	0	0	0	0	0	49,866
TOTAL REVENUES:	71,085	39,183	42,023	3,000	4,000	5,000	6,000	94,467	264,758
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	66,820	36,832	39,501	2,820	3,760	4,700	5,640	88,799	248,872
Planning and Design	4,265	2,351	2,522	180	240	300	360	5,668	15,886
TOTAL EXPENDITURES:	71,085	39,183	42,023	3,000	4,000	5,000	6,000	94,467	264,758

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,600	1,923	5,178	8,356	9,239	11,656	454,887	492,839
Rock Mining Mitigation Fees	13,451	5,239	0	0	0	0	0	0	18,690
Water Renewal and Replacement Fund	2,120	0	0	0	0	0	0	0	2,120
TOTAL REVENUES:	15,571	6,839	1,923	5,178	8,356	9,239	11,656	454,887	513,649
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	15,416	6,770	1,904	5,126	8,272	9,147	11,539	450,338	508,512
Planning and Design	155	69	19	52	84	92	117	4,549	5,137
TOTAL EXPENDITURES:	15,571	6,839	1,923	5,178	8,356	9,239	11,656	454,887	513,649

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,613	2,613	3,039	1,000	500	500	722	10,987
WASD Future Funding	0	0	0	0	0	0	0	190,133	190,133
WASD Revenue Bonds Sold	16,395	0	0	0	0	0	0	0	16,395
Wastewater Renewal Fund	12,196	0	0	0	0	0	0	0	12,196
TOTAL REVENUES:	28,591	2,613	2,613	3,039	1,000	500	500	190,855	229,711
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	28,591	2,613	2,613	3,039	1,000	500	500	190,855	229,711
TOTAL EXPENDITURES:	28,591	2,613	2,613	3,039	1,000	500	500	190,855	229,711

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Wastewater Special Construction Fund	28,219	0	0	0	0	0	0	0	28,219
TOTAL REVENUES:	28,219	0	0	0	0	0	0	0	28,219
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	8,804	1,717	2,475	2,475	2,475	2,475	7,516	0	27,937
Planning and Design	89	17	25	25	25	25	76	0	282
TOTAL EXPENDITURES:	8,893	1,734	2,500	2,500	2,500	2,500	7,592	0	28,219

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	36,472	10,795	6,541	2,500	1,500	0	0	57,808
WASD Revenue Bonds Sold	38,241	0	0	0	0	0	0	0	38,241
Wastewater Connection Charges	6,258	0	0	0	0	0	0	0	6,258
TOTAL REVENUES:	44,499	36,472	10,795	6,541	2,500	1,500	0	0	102,307
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	37,380	30,636	9,067	5,495	2,100	1,260	0	0	85,938
Land Acquisition/Improvements	444	365	108	65	25	15	0	0	1,022
Major Machinery and Equipment	4,450	3,647	1,080	654	250	150	0	0	10,231
Planning and Design	2,225	1,824	540	327	125	75	0	0	5,116
TOTAL EXPENDITURES:	44,499	36,472	10,795	6,541	2,500	1,500	0	0	102,307

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	14,275	10,612	11,704	14,070	11,203	8,000	43,600	113,464
State Revolving Loan Water Program	18,778	3,019	1,048	0	0	0	0	0	22,845
WASD Future Funding	0	0	0	0	0	0	0	292,428	292,428
WASD Revenue Bonds Sold	24,047	0	0	0	0	0	0	0	24,047
Water Renewal and Replacement Fund	345	0	0	0	0	0	0	0	345
TOTAL REVENUES:	43,170	17,294	11,660	11,704	14,070	11,203	8,000	336,028	453,129
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	42,307	16,948	11,427	11,470	13,789	10,979	7,840	329,307	444,067
Planning and Design	863	346	233	234	281	224	160	6,721	9,062
TOTAL EXPENDITURES:	43,170	17,294	11,660	11,704	14,070	11,203	8,000	336,028	453,129

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,448	3,000	3,688	4,500	6,000	5,120	6,276	31,032
WASD Revenue Bonds Sold	2,934	0	0	0	0	0	0	0	2,934
TOTAL REVENUES:	2,934	2,448	3,000	3,688	4,500	6,000	5,120	6,276	33,966
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,409	1,175	1,440	1,770	2,160	2,880	2,458	3,012	16,304
Land Acquisition/Improvements	1,466	1,224	1,500	1,844	2,250	3,000	2,560	3,138	16,982
Planning and Design	59	49	60	74	90	120	102	126	680
TOTAL EXPENDITURES:	2,934	2,448	3,000	3,688	4,500	6,000	5,120	6,276	33,966

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,000	1,500	2,000	2,500	1,000	1,000	127,200	136,200
WASD Future Funding	0	0	0	0	0	0	0	52,462	52,462
WASD Revenue Bonds Sold	34,749	0	0	0	0	0	0	0	34,749
TOTAL REVENUES:	34,749	1,000	1,500	2,000	2,500	1,000	1,000	179,662	223,411
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	34,749	1,000	1,500	2,000	2,500	1,000	1,000	179,662	223,411
TOTAL EXPENDITURES:	34,749	1,000	1,500	2,000	2,500	1,000	1,000	179,662	223,411

SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,353	1,545	3,679	2,018	3,001	4,500	26,456	42,552
TOTAL REVENUES:	0	1,353	1,545	3,679	2,018	3,001	4,500	26,456	42,552
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	0	1,218	1,391	3,311	1,816	2,701	4,050	23,810	38,297
Planning and Design	0	135	154	368	202	300	450	2,646	4,255
TOTAL EXPENDITURES:	0	1,353	1,545	3,679	2,018	3,001	4,500	26,456	42,552

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	10,752	8,951	6,000	4,000	5,000	6,500	235,730	276,933
WASD Revenue Bonds Sold	25,244	0	0	0	0	0	0	0	25,244
TOTAL REVENUES:	25,244	10,752	8,951	6,000	4,000	5,000	6,500	235,730	302,177
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	23,224	9,892	8,235	5,520	3,680	4,600	5,980	216,872	278,003
Planning and Design	2,020	860	716	480	320	400	520	18,858	24,174
TOTAL EXPENDITURES:	25,244	10,752	8,951	6,000	4,000	5,000	6,500	235,730	302,177

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

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



REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,022	1,551	4,585	2,641	3,738	977	5,000	19,514
TOTAL REVENUES:	0	1,022	1,551	4,585	2,641	3,738	977	5,000	19,514
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	0	991	1,504	4,448	2,561	3,626	948	4,850	18,928
Planning and Design	0	31	47	137	80	112	29	150	586
TOTAL EXPENDITURES:	0	1,022	1,551	4,585	2,641	3,738	977	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 District Located: Systemwide
 Various Sites District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
BBC GOB Financing	3,264	1,751	1,939	1,385	900	0	0	0	9,239
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	2,598	0	0	0	0	0	0	0	2,598
BBC GOB Series 2013A	221	0	0	0	0	0	0	0	221
BBC GOB Series 2014A	1,263	0	0	0	0	0	0	0	1,263
TOTAL REVENUES:	11,295	1,751	1,939	1,385	900	0	0	0	17,270
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	9,905	1,751	1,939	1,385	900	0	0	0	15,880
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:	11,295	1,751	1,939	1,385	900	0	0	0	17,270

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT

PROJECT #: 968150

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

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	21,299	13,135	12,792	13,605	15,101	14,600	76,288	166,820
WASD Revenue Bonds Sold	159,765	0	0	0	0	0	0	0	159,765
Wastewater Connection Charges	31,157	0	0	0	0	0	0	0	31,157
Wastewater Renewal Fund	5,348	0	0	0	0	0	0	0	5,348
TOTAL REVENUES:	196,270	21,299	13,135	12,792	13,605	15,101	14,600	76,288	363,090
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	180,568	19,595	12,084	11,768	12,517	13,893	13,432	70,185	334,042
Major Machinery and Equipment	11,775	1,278	788	768	816	906	876	4,577	21,784
Planning and Design	3,927	426	263	256	272	302	292	1,526	7,264
TOTAL EXPENDITURES:	196,270	21,299	13,135	12,792	13,605	15,101	14,600	76,288	363,090

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,494	361	0	0	0	0	148,712	151,567
WASD Revenue Bonds Sold	1,103	0	0	0	0	0	0	0	1,103
TOTAL REVENUES:	1,103	2,494	361	0	0	0	0	148,712	152,670
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	949	2,145	311	0	0	0	0	127,893	131,298
Land Acquisition/Improvements	11	25	4	0	0	0	0	1,487	1,527
Major Machinery and Equipment	11	25	3	0	0	0	0	1,487	1,526
Planning and Design	132	299	43	0	0	0	0	17,845	18,319
TOTAL EXPENDITURES:	1,103	2,494	361	0	0	0	0	148,712	152,670

WASTEWATER - EQUIPMENT AND VEHICLES

PROJECT #: 9650301

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

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
WASD Revenue Bonds Sold	552	0	0	0	0	0	0	0	552
Wastewater Renewal Fund	48,180	6,222	13,500	13,500	13,500	13,500	13,500	13,500	135,402
TOTAL REVENUES:	48,732	6,222	13,500	13,500	13,500	13,500	13,500	13,500	135,954
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Major Machinery and Equipment	37,277	17,677	13,500	13,500	13,500	13,500	13,500	13,500	135,954
TOTAL EXPENDITURES:	37,277	17,677	13,500	13,500	13,500	13,500	13,500	13,500	135,954

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
WASD Revenue Bonds Sold	1,426	0	0	0	0	0	0	0	1,426
Wastewater Renewal Fund	11,788	3,000	3,000	3,000	3,000	3,000	3,000	3,000	32,788
TOTAL REVENUES:	13,214	3,000	3,000	3,000	3,000	3,000	3,000	3,000	34,214
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	12,817	2,910	2,910	2,910	2,910	2,910	2,910	2,910	33,187
Planning and Design	397	90	90	90	90	90	90	90	1,027
TOTAL EXPENDITURES:	13,214	3,000	3,000	3,000	3,000	3,000	3,000	3,000	34,214

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	5,230	3,876	6,318	7,361	12,193	14,809	64,698	114,485
WASD Future Funding	0	0	0	0	0	0	0	25,000	25,000
WASD Revenue Bonds Sold	2,765	0	0	0	0	0	0	0	2,765
TOTAL REVENUES:	2,765	5,230	3,876	6,318	7,361	12,193	14,809	89,698	142,250
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	2,627	4,969	3,682	6,002	6,993	11,583	14,069	85,213	135,138
Land Acquisition/Improvements	10	0	0	0	0	0	0	0	10
Major Machinery and Equipment	100	209	155	253	294	488	592	3,588	5,679
Planning and Design	28	52	39	63	74	122	148	897	1,423
TOTAL EXPENDITURES:	2,765	5,230	3,876	6,318	7,361	12,193	14,809	89,698	142,250

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
WASD Revenue Bonds Sold	3,188	0	0	0	0	0	0	0	3,188
Wastewater Renewal Fund	39,689	14,404	15,000	15,000	15,000	15,000	15,000	183,500	312,593
TOTAL REVENUES:	42,877	14,404	15,000	15,000	15,000	15,000	15,000	183,500	315,781
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	39,877	17,404	15,000	15,000	15,000	15,000	15,000	183,500	315,781
TOTAL EXPENDITURES:	39,877	17,404	15,000	15,000	15,000	15,000	15,000	183,500	315,781

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
WASD Revenue Bonds Sold	2,654	0	0	0	0	0	0	0	2,654
Wastewater Renewal Fund	1,767	0	500	500	500	500	500	500	4,767
TOTAL REVENUES:	4,421	0	500	500	500	500	500	500	7,421
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	3,935	486	500	500	500	500	500	500	7,421
TOTAL EXPENDITURES:	3,935	486	500	500	500	500	500	500	7,421

Estimated Annual Operating Impact will begin in FY 2017-18 in the amount of \$10,000

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	112,018	112,610	114,974	143,615	139,104	122,083	393,329	1,137,733
WASD Revenue Bonds Sold	189,669	0	0	0	0	0	0	0	189,669
Wastewater Renewal Fund	25,672	0	0	0	0	0	0	0	25,672
TOTAL REVENUES:	215,341	112,018	112,610	114,974	143,615	139,104	122,083	393,329	1,353,074
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	200,267	104,177	104,727	106,926	133,562	129,367	113,537	365,796	1,258,359
Major Machinery and Equipment	2,154	1,120	1,126	1,150	1,436	1,391	1,221	3,933	13,531
Planning and Design	12,920	6,721	6,757	6,898	8,617	8,346	7,325	23,600	81,184
TOTAL EXPENDITURES:	215,341	112,018	112,610	114,974	143,615	139,104	122,083	393,329	1,353,074

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,489	288	3,793	160	500	500	6,500	14,230
WASD Revenue Bonds Sold	69	0	0	0	0	0	0	0	69
TOTAL REVENUES:	69	2,489	288	3,793	160	500	500	6,500	14,299
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	69	2,489	288	3,793	160	500	500	6,500	14,299
TOTAL EXPENDITURES:	69	2,489	288	3,793	160	500	500	6,500	14,299

FY 2017 - 18 Adopted 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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	609	3,526	0	0	0	0	0	4,135
WASD Future Funding	0	0	0	0	0	0	0	51,650	51,650
WASD Revenue Bonds Sold	2,004	0	0	0	0	0	0	0	2,004
Wastewater Renewal Fund	34,174	16,374	10,000	10,000	10,000	10,000	10,000	10,000	110,548
TOTAL REVENUES:	36,178	16,983	13,526	10,000	10,000	10,000	10,000	61,650	168,337
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	33,820	18,277	13,256	9,800	9,800	9,800	9,800	60,417	164,970
Land Acquisition/Improvements	0	0	0	0	0	0	0	516	516
Major Machinery and Equipment	347	187	135	100	100	100	100	100	1,169
Planning and Design	344	186	135	100	100	100	100	617	1,682
TOTAL EXPENDITURES:	34,511	18,650	13,526	10,000	10,000	10,000	10,000	61,650	168,337

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	24,277	17,794	22,636	12,200	6,925	4,000	81,500	169,332
WASD Revenue Bonds Sold	48,779	0	0	0	0	0	0	0	48,779
Water Connection Charges	7,862	5,330	8,197	0	0	0	0	0	21,389
Water Renewal and Replacement Fund	30,256	0	0	0	0	0	0	0	30,256
Water Special Construction Fund	17,000	0	0	0	0	0	0	0	17,000
TOTAL REVENUES:	103,897	29,607	25,991	22,636	12,200	6,925	4,000	81,500	286,756
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	91,100	37,063	24,951	21,731	11,712	6,648	3,840	78,240	275,285
Planning and Design	3,797	1,544	1,040	905	488	277	160	3,260	11,471
TOTAL EXPENDITURES:	94,897	38,607	25,991	22,636	12,200	6,925	4,000	81,500	286,756

WATER - EQUIPMENT AND VEHICLES

PROJECT #: 9650141

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

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,500	1,500	1,500	1,500	1,500	1,500	151,000	160,000
WASD Revenue Bonds Sold	52	0	0	0	0	0	0	0	52
Water Renewal and Replacement Fund	32,880	5,013	5,700	5,700	5,700	5,700	5,700	5,700	72,093
TOTAL REVENUES:	32,932	6,513	7,200	7,200	7,200	7,200	7,200	156,700	232,145
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Major Machinery and Equipment	24,999	14,446	7,200	7,200	7,200	7,200	7,200	156,700	232,145
TOTAL EXPENDITURES:	24,999	14,446	7,200	7,200	7,200	7,200	7,200	156,700	232,145

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Water Special Construction Fund	6,682	0	1,000	1,000	1,000	2,000	2,000	0	13,682
TOTAL REVENUES:	6,682	0	1,000	1,000	1,000	2,000	2,000	0	13,682
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	6,400	282	1,000	1,000	1,000	2,000	2,000	0	13,682
TOTAL EXPENDITURES:	6,400	282	1,000	1,000	1,000	2,000	2,000	0	13,682

WATER - PIPES AND INFRASTRUCTURE PROJECTS

PROJECT #: 967190

DESCRIPTION: Replace pipe and construct infrastructure repairs
 LOCATION: Countywide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,975	14,272	861	0	0	0	0	18,108
WASD Revenue Bonds Sold	16,287	0	0	0	0	0	0	0	16,287
Water Renewal and Replacement Fund	54,379	7,999	8,000	8,000	8,000	8,000	8,000	8,000	110,378
Water Special Construction Fund	8,000	0	0	0	0	0	0	0	8,000
TOTAL REVENUES:	78,666	10,974	22,272	8,861	8,000	8,000	8,000	8,000	152,773
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	66,897	12,882	19,822	7,886	7,120	7,120	7,120	7,120	135,967
Planning and Design	8,269	1,592	2,450	975	880	880	880	880	16,806
TOTAL EXPENDITURES:	75,166	14,474	22,272	8,861	8,000	8,000	8,000	8,000	152,773

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	10,992	11,452	7,639	17,040	350	0	0	47,473
WASD Revenue Bonds Sold	1,006	0	0	0	0	0	0	0	1,006
TOTAL REVENUES:	1,006	10,992	11,452	7,639	17,040	350	0	0	48,479
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	976	10,662	11,108	7,410	16,529	340	0	0	47,025
Planning and Design	30	330	344	229	511	10	0	0	1,454
TOTAL EXPENDITURES:	1,006	10,992	11,452	7,639	17,040	350	0	0	48,479

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

WATER - SYSTEM MAINTENANCE AND UPGRADES

PROJECT #: 9650181

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

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
WASD Revenue Bonds Sold	5,900	0	0	0	0	0	0	0	5,900
Water Renewal and Replacement Fund	32,832	19,556	18,000	18,000	18,000	18,000	18,000	18,000	160,388
TOTAL REVENUES:	38,732	19,556	18,000	18,000	18,000	18,000	18,000	18,000	166,288
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	38,732	19,556	18,000	18,000	18,000	18,000	18,000	18,000	166,288
TOTAL EXPENDITURES:	38,732	19,556	18,000	18,000	18,000	18,000	18,000	18,000	166,288

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Water Renewal and Replacement Fund	1,254	292	300	300	300	300	300	300	3,346
TOTAL REVENUES:	1,254	292	300	300	300	300	300	300	3,346
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,254	292	300	300	300	300	300	300	3,346
TOTAL EXPENDITURES:	1,254	292	300	300	300	300	300	300	3,346

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Fire Hydrant Fund	38,221	3,500	3,500	3,500	3,500	3,500	3,500	5,921	65,142
TOTAL REVENUES:	38,221	3,500	3,500	3,500	3,500	3,500	3,500	5,921	65,142
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	37,074	3,395	3,395	3,395	3,395	3,395	3,395	5,743	63,187
Planning and Design	1,147	105	105	105	105	105	105	178	1,955
TOTAL EXPENDITURES:	38,221	3,500	3,500	3,500	3,500	3,500	3,500	5,921	65,142

FY 2017 - 18 Adopted 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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	9,449	16,541	22,549	21,791	10,613	8,637	35,000	124,580
WASD Revenue Bonds Sold	11,545	0	0	0	0	0	0	0	11,545
TOTAL REVENUES:	11,545	9,449	16,541	22,549	21,791	10,613	8,637	35,000	136,125
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	10,160	8,315	14,556	19,843	19,176	9,339	7,601	30,800	119,790
Major Machinery and Equipment	115	95	165	226	218	107	86	350	1,362
Planning and Design	1,270	1,039	1,820	2,480	2,397	1,167	950	3,850	14,973
TOTAL EXPENDITURES:	11,545	9,449	16,541	22,549	21,791	10,613	8,637	35,000	136,125

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Water Connection Charges	1,555	4,000	0	0	0	0	0	0	5,555
TOTAL REVENUES:	1,555	4,000	0	0	0	0	0	0	5,555
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	1,447	3,720	0	0	0	0	0	0	5,167
Planning and Design	108	280	0	0	0	0	0	0	388
TOTAL EXPENDITURES:	1,555	4,000	0	0	0	0	0	0	5,555

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 District Located: 6
 Hialeah District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	16,097	17,894	7,230	744	4,401	9,467	28,815	84,648
WASD Revenue Bonds Sold	3,607	0	0	0	0	0	0	0	3,607
TOTAL REVENUES:	3,607	16,097	17,894	7,230	744	4,401	9,467	28,815	88,255
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	2,922	13,039	14,494	5,856	603	3,565	7,668	23,341	71,488
Land Acquisition/Improvements	541	2,415	2,684	1,084	112	660	1,420	4,322	13,238
Major Machinery and Equipment	108	483	537	217	22	132	284	864	2,647
Planning and Design	36	160	179	73	7	44	95	288	882
TOTAL EXPENDITURES:	3,607	16,097	17,894	7,230	744	4,401	9,467	28,815	88,255

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

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

WATER TREATMENT PLANTS - 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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,247	0	0	0	0	0	0	2,247
TOTAL REVENUES:	0	2,247	0	0	0	0	0	0	2,247
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	0	2,247	0	0	0	0	0	0	2,247
TOTAL EXPENDITURES:	0	2,247	0	0	0	0	0	0	2,247

WATER TREATMENT PLANTS - MISCELLANEOUS UPGRADES

PROJECT #: 9610960

DESCRIPTION: Upgrade water treatment plants to meet regulatory requirements
 LOCATION: Water Treatment Plants District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	144	971	0	0	0	0	0	1,115
WASD Revenue Bonds Sold	6,980	0	0	0	0	0	0	0	6,980
Water Renewal and Replacement Fund	380	0	0	0	0	0	0	0	380
TOTAL REVENUES:	7,360	144	971	0	0	0	0	0	8,475
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	6,886	138	932	0	0	0	0	0	7,956
Planning and Design	474	6	39	0	0	0	0	0	519
TOTAL EXPENDITURES:	7,360	144	971	0	0	0	0	0	8,475

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	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Future WASD Revenue Bonds	0	545	545	0	0	0	0	0	1,090
WASD Revenue Bonds Sold	3,539	0	0	0	0	0	0	0	3,539
Water Renewal and Replacement Fund	10,737	7,140	2,500	2,500	2,500	2,500	2,500	2,500	32,877
TOTAL REVENUES:	14,276	7,685	3,045	2,500	2,500	2,500	2,500	2,500	37,506
EXPENDITURE SCHEDULE:	PRIOR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	FUTURE	TOTAL
Construction	11,355	8,411	2,740	2,250	2,250	2,250	2,250	2,250	33,756
Land Acquisition/Improvements	320	0	0	0	0	0	0	0	320
Planning and Design	941	934	305	250	250	250	250	250	3,430
TOTAL EXPENDITURES:	12,616	9,345	3,045	2,500	2,500	2,500	2,500	2,500	37,506

UNFUNDED CAPITAL PROJECTS

PROJECT NAME	LOCATION	(dollars in thousands) ESTIMATED PROJECT COST
WASTEWATER NEEDS ASSESSMENT FOR NEW GRAVITY SEWER PHASE 2	To Be Determined	199,867
WATER COMMERCIAL CORRIDOR ECONOMIC DEVELOPMENT- PHASE 2	To Be Determined	279,204
UNFUNDED TOTAL		479,071

