

FY 2015 - 16 Adopted Budget and Multi-Year Capital Plan

Water and Sewer

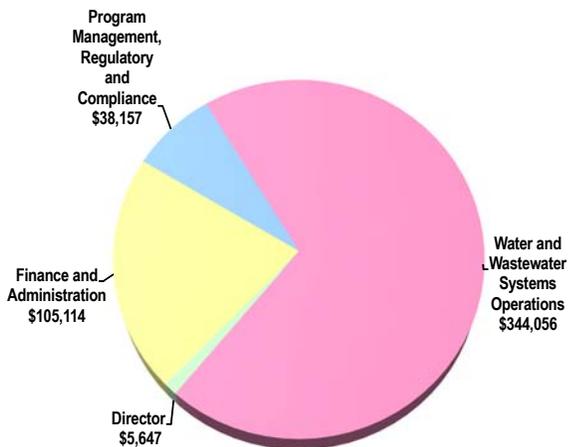
The Miami-Dade Water and Sewer Department (WASD) provides high-quality drinking water and wastewater disposal services, safeguarding public health and the environment, while planning for future growth, implementing water conservation measures, and providing for process improvements and cost efficiencies.

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 and six local water treatment plants, with a total rated capacity of 464 million gallons per day (MGD), and three regional wastewater treatment plants with a total treatment capacity of 375 MGD. Additionally, WASD operates and maintains 95 water supply wells (grouped into 14 wellfields) in the Biscayne Aquifer; five aquifer storage and recovery wells in the Floridian Aquifer; 1,047 sewer pump stations (1,028 County-owned and 19 maintained for other entities); 7,940 miles of water distribution mains; and 6,309 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.

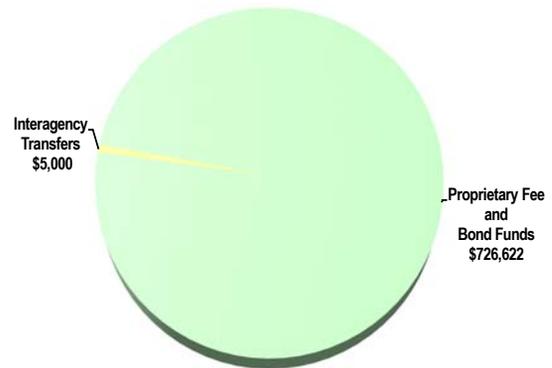
The Department delivers water and sewer services to most residents and businesses within Miami-Dade County, serving approximately 432,000 water and 350,000 wastewater retail customers as of September 30, 2014. Additionally, wholesale water service is provided to 15 municipalities and wholesale sewer service is provided to 13 municipalities within Miami-Dade County. 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 2015-16 Adopted Budget

Expenditures by Activity
(dollars in thousands)

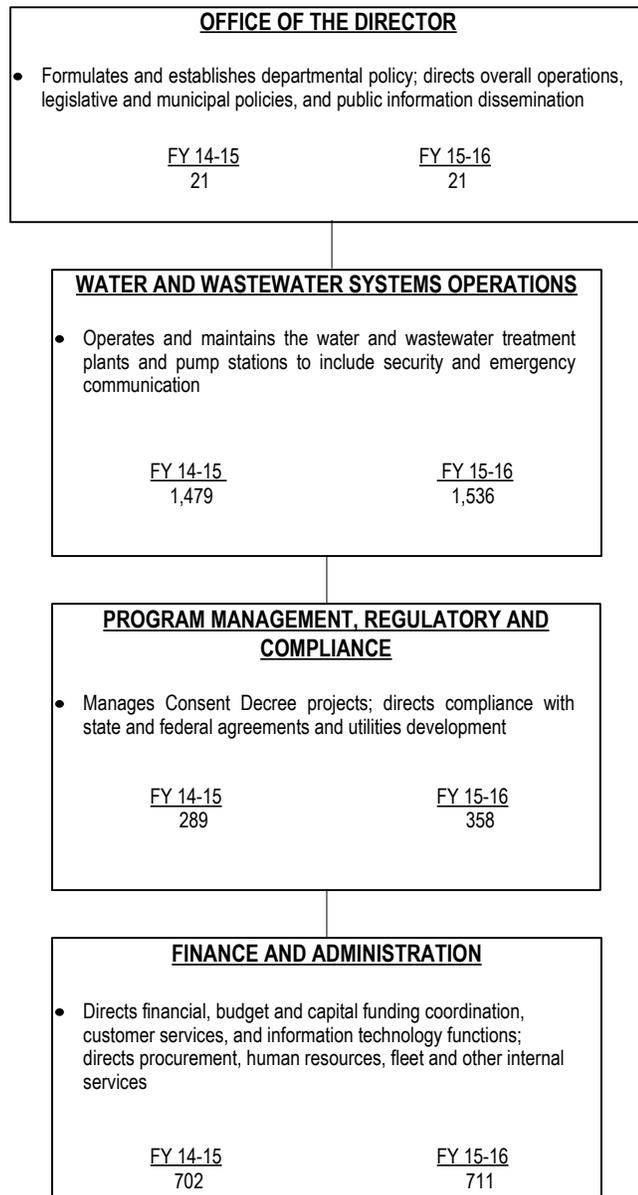


Revenues by Source
(dollars in thousands)



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TABLE OF ORGANIZATION



The FY 2015-16 total number of full-time equivalent positions is 2,626

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FINANCIAL SUMMARY

(dollars in thousands)	Actual FY 12-13	Actual FY 13-14	Budget FY 14-15	Adopted FY 15-16
Revenue Summary				
Miscellaneous Non-Operating	3,427	1,593	2,027	1,574
Other Revenues	21,876	28,022	26,088	28,072
Retail Wastewater	230,661	245,167	255,004	270,375
Retail Water	207,117	219,890	229,957	242,715
Transfer From Other Funds	0	0	21,790	23,685
Wholesale Wastewater	59,544	56,956	58,601	72,198
Wholesale Water	29,210	28,815	38,954	24,169
Carryover	55,664	57,383	59,430	63,834
Loan Repayments	0	5,000	5,000	5,000
Total Revenues	607,499	642,826	696,851	731,622

Operating Expenditures Summary

Salary	151,567	151,606	151,132	159,851
Fringe Benefits	38,153	42,901	50,044	52,835
Contractual Services	63,533	68,059	86,036	95,264
Other Operating	45,501	46,036	47,562	52,386
Charges for County Services	41,410	41,241	48,231	50,416
Capital	57,117	65,362	82,160	82,222
Total Operating Expenditures	397,281	415,205	465,165	492,974

Non-Operating Expenditures

Summary				
Transfers	5,801	13,236	0	0
Distribution of Funds In Trust	0	0	0	0
Debt Service	147,034	154,955	167,852	170,097
Depreciation, Amortizations and Depletion	0	0	0	0
Reserve	0	0	63,834	68,551
Total Non-Operating Expenditures	152,835	168,191	231,686	238,648

(dollars in thousands) Expenditure By Program	Total Funding		Total Positions	
	Budget FY 14-15	Adopted FY 15-16	Budget FY 14-15	Adopted FY 15-16
Strategic Area: Neighborhood and Infrastructure				
Director	8,406	5,647	21	21
Water and Wastewater	329,834	344,056	1,479	1,536
Systems Operations				
Finance and Administration	93,601	105,114	702	711
Program Management,	33,324	38,157	289	358
Regulatory and Compliance				
Total Operating Expenditures	465,165	492,974	2,491	2,626

SELECTED ITEM HIGHLIGHTS AND DETAILS

Line Item Highlights	(dollars in thousands)				
	Actual FY 12-13	Actual FY 13-14	Budget FY 14-15	Actual FY 14-15	Budget FY 15-16
Advertising	722	776	836	776	840
Fuel	3,896	3,715	4,057	3,715	4,213
Overtime	11,307	13,577	10,264	13,577	11,755
Rent	400	330	377	330	377
Security Services	11,797	11,240	12,220	11,240	12,903
Temporary Services	763	884	679	884	1,379
Travel and Registration	179	131	289	131	289

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DIVISION: DIRECTOR

Formulates and establishes departmental policy; directs overall operations, legislative and municipal policies, and public information dissemination.

- Defines department policies and strategic goals
- Provides legal support
- 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

DIVISION COMMENTS

- The FY 2015-16 Adopted Budget includes payments to the Audit and Management Services Department for expenses associated with audits and reviews (\$500,000)
- In FY 2015-16, the bill of the average retail water and sewer customer (6,750 gallons per month) will increase by six percent, from \$48.11 to \$51.11, or by approximately \$3.00, per month; future adjustments will be needed based on debt service obligations and operating requirements
- Effective October 1, 2015, the wholesale water rate per thousand gallons will decrease from \$1.7816 to \$1.7341 or by -\$0.0475; in addition, the sewer wholesale rate will increase from \$2.56 to \$2.7879 or by \$0.2279 per thousand gallons; wholesale customers' bills include a true-up adjustment to recover actual cost for FY 2013-14
- The FY 2015-16 Adopted Budget includes a Memorandum of Understanding with the Office of the Inspector General to perform specialized audits as required (\$100,000)
- The FY 2015-16 Adopted Budget includes funding to the Miami-Dade Fire Rescue Department (MDFR) for fire hydrant maintenance (\$1 million)
- In FY 2015-16, the Department will continue an on-going reorganizational review to streamline management and business practices and the Adopted Budget includes funding to the Office of Management and Budget (OMB) for consulting services to fund organizational reviews/studies (\$335,000)
- The FY 2015-16 Adopted Budget includes a loan repayment from the General Fund (\$5 million) for the third consecutive year
- The Department is currently working on an advertising campaign that includes the Department's branding for community recognition and to inform the citizens on water and wastewater services and the Multi-Year Capital Improvements Plan

DIVISION: WATER AND WASTEWATER SYSTEMS OPERATIONS

Operates and maintains the water and wastewater treatment plants and pump stations, including security and emergency communication.

- 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, fire lines and water meters 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 Water Cross Connection Control Program
- Provides laboratory analysis to comply with regulatory agencies' requirements

Strategic Objectives - Measures

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

Objectives	Measures			FY 12-13	FY 13-14	FY 14-15	FY 14-15	FY 15-16
				Actual	Actual	Budget	Actual	Target
Maintain high level of responsiveness to customer service requests	Percentage of non-emergency requests dispatched in less than three business days	OC	↑	99%	99%	98%	98%	98%

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<ul style="list-style-type: none"> NI2-1: Provide adequate potable water supply and wastewater disposal 								
Objectives	Measures			FY 12-13	FY 13-14	FY 14-15	FY 14-15	FY 15-16
				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	↑	1,046	1,181	1,124	1,782	1,124
Fully comply with drinking water standards	Percentage compliance with drinking water standards	OC	↑	100%	100%	100%	100%	100%
Reduce response time to sanitary sewer overflows	Average time to respond to sewage overflows (in minutes)	EF	↓	52	45	60	39	60
Ensure proper maintenance and operation of the sewage system	Percentage compliance with wastewater effluent limits*	OC	↑	90%	97%	100%	66%	100%
	Percentage of pumps in service	EF	↑	98%	97%	99%	98%	99%
	Wastewater mainline valves exercised	OP	↔	6,022	6,135	6,087	6,167	6,000

*Unforeseen factors such as severe mechanical failures, loss of clarifiers, and repairs to broken equipment negatively impacted performance for FY 2014-15

DIVISION COMMENTS

- The FY 2015-16 Adopted Budget includes 56 positions for Wastewater Operations to begin to address staffing shortfalls identified in the Capacity, Management, and Operational and Maintenance Reports that have been submitted to the Environmental Protection Agency in response to the Consent Decree; in addition, 13 positions are included in the FY 2015-16 Adopted Budget to support water treatment operations and infrastructure repairs; 60 of the positions being added will be phased in and funded beginning July 1, 2016

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DIVISION: FINANCE AND ADMINISTRATION

Directs financial, budget and capital funding coordination, customer services, and information technology functions; directs procurement, human resources, fleet and other internal services.

- 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 human capital planning and procurement
- Manages business process support for customer, care and billing, enterprise resource planning financial and enterprise asset management software systems
- Manages Retail Customer Services and Information Technology Divisions
- Manages general maintenance services

Strategic Objectives - Measures

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

Objectives	Measures			FY 12-13	FY 13-14	FY 14-15	FY 14-15	FY 15-16
				Actual	Actual	Budget	Actual	Target
Provide information to customers in a timely manner	Average call wait time (in minutes)*	EF	↓	11	9	3	8	3
	Percentage of calls answered within two minutes (monthly)*	OC	↑	21%	29%	80%	41%	80%

* In FY 2014-15, the Department experienced problems with the implementation of the Interactive Response System (IVR) and in cross-training staff that impacted targeted improvements of the Department's call wait time. Planned Improvements for FY 2015-2016 include new interactive WASD website and phone application, introduction of a fully functional self-service IVR, and extended hours of operation.

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

Objectives	Measures			FY 12-13	FY 13-14	FY 14-15	FY 14-15	FY 15-16
				Actual	Actual	Budget	Actual	Target
Workforce skills to support County priorities	Training hours per employee	OP	↔	8	7	11	11	12

- GG4-1: Provide sound financial and risk management

Objectives	Measures			FY 12-13	FY 13-14	FY 14-15	FY 14-15	FY 15-16
				Actual	Actual	Budget	Actual	Target
Ensure sound asset management and financial investment strategies	Bond rating evaluation by Fitch	OC	↑	AA-	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	↑	A1	Aa3	A1	Aa3	Aa3

DIVISION COMMENTS

- The FY 2015-16 Adopted Budget includes payments to the Finance Department for expenses associated with cash management services (\$50,000) and for expenses associated with credit and collection services (payments are based on a percentage of collected revenue)
- The FY 2015-16 Adopted Budget includes six additional full-time Customer Service Representative positions to help meet the demands of customers and improve call wait time and includes payments to the Communications Department for expenses associated with 311 call center services (19 full time equivalent positions)
- The FY 2015-16 Adopted Budget includes three additional positions in Human Resources to improve the hiring and training process in the Department

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- The FY 2014-15 year end combined fund balance is projected to be \$69.6 million in rate stabilization and general reserve funds; in FY 2015-16, a combined balance of \$61.7 million is projected in both reserves; the Department will have a year-end fund balance of \$68.5 million in the operating budget as required for bond ordinances

DIVISION: PROGRAM MANAGEMENT, REGULATORY AND 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
- Oversees contract compliance, provides strategic planning, and directs performance improvement and efficiency savings programs

Strategic Objectives - Measures

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

Objectives	Measures			FY 12-13	FY 13-14	FY 14-15	FY 14-15	FY 15-16
				Actual	Actual	Budget	Actual	Target
Ensure compliance with 20-year Water Use Permit with the South Florida Water Management District	Percent compliance with 20-Year Water Use Permit (WUP) as scheduled	OC	↑	100%	100%	95%	100%	98%
Ensure compliance with Comprehensive Development of Master Plan	Percentage of Comprehensive Development Master Plan comments submitted timely	EF	↑	100%	100%	95%	100%	98%
	Percentage of Development Impact Committee comments provided timely	EF	↑	100%	100%	95%	100%	98%
Ensure proper maintenance and operation of the sewage system	Percentage of Consent Decree Wastewater Projects on Schedule	OC	↑	N/A	100%	100%	100%	100%
	Percentage of Ocean Outfall Legislation projects on schedule*	OC	↑	N/A	N/A	100%	100%	100%

* This measure is being tracked beginning in FY 2014-15

DIVISION COMMENTS

- In FY 2015-16, 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 2015-16 Adopted Budget includes funding to the Parks, Recreation and Open Spaces (PROS) Department for the Florida Yards and Neighborhoods Program (\$285,000)
- The FY 2015-16 Adopted Budget includes 21 new positions for Program Management and Construction and 36 new positions for Contract Compliance and Quality Assurance of construction/contractual work related to the \$13.5 billion Capital Improvement Plan, which includes the \$1.6 billion consent related projects; 46 of the positions being added will be phased in and funded beginning July 1, 2016

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- The Department will be establishing a Small Business Office to coordinate construction, architectural and engineering firms' compliance with Small Business Enterprise Program, Responsible Wages and Prompt Payment Ordinances to facilitate the achievement of economic stimulus programs in the community; the office will also be responsible for the monitoring and oversight of capital projects with an estimated value of \$13.5 billion over a twenty year period

Department Operational Unmet Needs

Description	(dollars in thousands)		Positions
	Startup Costs/ Non Recurring Costs	Recurring Costs	
Fund four positions in the Priority Capital Projects Section to direct and supervise the design and construction work flow for capital improvements	\$0	\$471	4
Fund one position in the Planning Division to maintain and update hydraulic computer modeling inventory of the water transmission and distribution system and perform other activities to ensure adequate water supply	\$0	\$49	1
Fund two positions in the Meter Installations and Maintenance Division to support sidewalk restoration and water meter repairs	\$0	\$89	2
Fund 12 positions in the Water Transmission and Distribution Division to meet increased permit and restoration requirements	\$0	\$579	12
Fund six positions in the Water Production and Maintenance Division to maintain and restore the structures and equipment at the water treatment plants and to support infrared and motor circuit evaluators	\$0	\$430	6
Fund eight positions in the Pump Station Division to support the wetwell cleaning operations and other related pump station activities	\$0	\$421	8
Fund nine positions in the Wastewater Collection and Transmission Division to support the Pump Station Improvement Program	\$0	\$458	9
Fund 31 positions in the Wastewater Treatment and Maintenance Division to provide adequate mechanical staff and perform other related activities	\$0	\$2,135	31
Fund two positions in the Telemetry Section for support of the Consent Decree	\$0	\$170	2
Fund one position in the Regulatory Compliance and Monitoring Division to monitor various projects in the Asbestos Program	\$0	\$60	1
Fund one position in the Support Services Section to provide full-time production support and coverage to the operation	\$0	\$49	1
Fund three positions in the Human Resources Division to provide oversight and support of the recruitment process and Training Unit	\$0	\$303	3
Fund two positions in the Contract Processing Section to ensure compliance with Consent Decree agreements and construction contracts	\$0	\$126	2
Fund one position in the Security Section in monitoring devices to comply with Department of Homeland Security (DHS) guidelines for comprehensive electronic security protection	\$0	\$63	1
Total	\$0	\$5,403	83

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CAPITAL BUDGET SUMMARY

(dollars in thousands)	PRIOR	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FUTURE	TOTAL
Revenue									
Rock Mining Mitigation Fees	14,501	0	0	0	0	0	0	0	14,501
WASD Revenue Bonds Sold	318,948	0	0	0	0	0	0	0	318,948
BBC GOB Financing	5,490	10,041	26,516	47,827	68,474	5,155	0	0	163,503
2015 WASD Revenue Bonds Sold	0	279,865	0	0	0	0	0	0	279,865
BBC GOB Series 2005A	5,038	0	0	0	0	0	0	0	5,038
BBC GOB Series 2011A	4,329	0	0	0	0	0	0	0	4,329
WASD Future Funding	0	0	0	0	0	0	0	1,845,455	1,845,455
HLD Special Construction Fund	39,560	0	0	0	0	0	0	0	39,560
Wastewater Connection Charges	114,576	17,426	13,557	6,151	0	0	0	0	151,710
Water Renewal and Replacement Fund	169,876	35,361	43,496	43,000	40,000	40,000	40,000	55,000	466,733
Miami Springs Wastewater Construction Fund	1,326	0	0	0	0	0	0	0	1,326
Wastewater Special Construction Fund	5,308	400	500	500	500	1,923	0	0	9,131
Water Special Construction Fund	5,795	1,000	1,000	1,000	2,000	3,815	0	0	14,610
Wastewater Renewal Fund	166,100	44,639	41,396	40,000	40,000	40,000	42,000	162,500	576,635
Water Connection Charges	26,227	5,000	10,342	3,802	0	0	0	0	45,371
Water Construction Fund	2,338	0	0	0	0	0	0	0	2,338
BBC GOB Series 2008B-1	5,309	0	0	0	0	0	0	0	5,309
Future WASD Revenue Bonds	0	0	575,519	929,337	1,068,791	1,237,725	1,270,506	4,410,067	9,491,944
BBC GOB Series 2014A	1,897	0	0	0	0	0	0	0	1,897
Fire Hydrant Fund	28,156	2,500	2,500	2,500	2,500	3,000	9,500	0	50,656
BBC GOB Series 2008B	2,952	0	0	0	0	0	0	0	2,952
BBC GOB Series 2013A	246	0	0	0	0	0	0	0	246
Total:	917,972	396,232	714,826	1,074,116	1,222,265	1,331,617	1,362,006	6,473,022	13,492,057
Expenditures									
Strategic Area: NI									
GOB Water and Wastewater Projects	25,261	10,041	26,516	47,827	68,474	5,155	0	0	183,274
Wastewater Projects	403,466	389,085	462,965	752,825	859,100	993,812	976,035	5,465,675	10,302,963
Water Projects	279,212	163,537	220,178	284,964	314,811	349,801	385,970	1,007,347	3,005,820
Total:	707,939	562,663	709,659	1,085,616	1,242,385	1,348,768	1,362,005	6,473,022	13,492,057

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 BCC 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 are currently included in the capital plan, but as projects advance, schedules for completion may need to be modified, with the approval of the EPA; increased debt requirements will lead to future rate adjustments
- In FY 2015-16, the Department will continue implementation of water system capital projects (\$163.5 million, with \$4.1 million in GOB funds in FY 2015-16, \$3 billion, with \$36.7 million in GOB funds for all years); major water system projects include but are not limited to Central Miami-Dade Water Transmission Mains Improvements, Water Distribution System Extension Enhancements, South Miami Heights Water Treatment Plant and Wellfield, Small Diameter Water Mains Replacement Program, Water System Maintenance and Upgrades, and Safe Drinking Water Act Modifications
- In FY 2015-16, the Department will continue implementation of wastewater system capital projects (\$389 million, with \$5.9 million of GOB funds in FY 2015-16, \$10.3 billion, with \$146.5 million in GOB funds for all years), major wastewater system projects include but are not limited to Consent Decree Projects for Wastewater Treatment Plants, Wastewater Collection and Transmission Lines, Sewer Pump Station Systems, Outfall Legislation, Pump Station Generators and Miscellaneous Upgrades, South District Wastewater Treatment Plant Expansion – Phase III, Peak Flow Management Facilities, Wastewater System Maintenance and Upgrades, North District Wastewater Treatment Plant, Central Miami-Dade Wastewater Transmission Mains and Pump Stations Improvements, and Central District Wastewater Treatment Plant, Pump Station Improvements Program

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- The FY 2015-16 Adopted Budget and Multi-Year Capital Plan includes \$80 million in the Renewal and Replacement fund for an enhanced program to expedite replacements and rehabilitation of pipe infrastructure and plant facilities
- In FY 2012-13, legislation modifying the State Ocean Outfall Statute was signed into law by the Governor of Florida; this legislation provides additional flexibility for the Department to manage peak flows and to fulfill all wastewater reuse requirements in the statute; these changes save the Department approximately \$1 billion in project costs, which is budgeted at \$4.02 billion through 2025

FUNDED CAPITAL PROJECTS

(dollars in thousands)

OUTFALL LEGISLATION

PROJECT #: 962670



DESCRIPTION: Elimination of outfall flows to the ocean
 LOCATION: Systemwide
 Various Sites

District Located:
 District(s) Served:

Systemwide
 Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	17,191	0	0	0	0	0	0	17,191
Future WASD Revenue Bonds	0	0	26,148	72,875	114,052	155,781	223,632	2,757,632	3,350,119
WASD Future Funding	0	0	0	0	0	0	0	622,317	622,317
WASD Revenue Bonds Sold	10,315	0	0	0	0	0	0	0	10,315
Wastewater Connection Charges	19,080	1,383	0	0	0	0	0	0	20,463
TOTAL REVENUES:	29,395	18,574	26,148	72,875	114,052	155,781	223,632	3,379,949	4,020,405
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	9,395	33,778	23,533	65,587	102,647	140,203	201,268	3,041,954	3,618,364
Planning and Design	1,044	3,753	2,615	7,287	11,405	15,578	22,363	337,995	402,040
TOTAL EXPENDITURES:	10,438	37,531	26,148	72,875	114,052	155,781	223,632	3,379,949	4,020,405

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

SYSTEM IMPROVEMENTS PROJECT - GENERAL OBLIGATION BONDS (GOB)

PROJECT #: 962830

DESCRIPTION: Replace undersized water mains and install new fire hydrants
 LOCATION: Various Sites
 Various Sites

District Located:
 District(s) Served:

Systemwide
 Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
BBC GOB Financing	1,609	1,344	1,881	965	1,460	5,155	0	0	12,414
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	1,092	0	0	0	0	0	0	0	1,092
TOTAL REVENUES:	9,469	1,344	1,881	965	1,460	5,155	0	0	20,274
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	8,008	1,344	1,881	965	1,460	5,155	0	0	18,813
Permitting	100	0	0	0	0	0	0	0	100
Planning and Design	1,211	0	0	0	0	0	0	0	1,211
Project Administration	150	0	0	0	0	0	0	0	150
TOTAL EXPENDITURES:	9,469	1,344	1,881	965	1,460	5,155	0	0	20,274

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AUTOMATION OF WATER TREATMENT PLANTS

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	400	0	0	0	0	0	400
WASD Revenue Bonds Sold	1,916	0	0	0	0	0	0	0	1,916
Water Connection Charges	1,262	0	0	0	0	0	0	0	1,262
TOTAL REVENUES:	3,179	0	400	0	0	0	0	0	3,579
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	2,727	452	400	0	0	0	0	0	3,579
TOTAL EXPENDITURES:	2,727	452	400	0	0	0	0	0	3,579

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	47,180	0	0	0	0	0	0	47,180
Future WASD Revenue Bonds	0	0	109,010	138,058	182,749	203,884	135,939	217,850	987,491
WASD Revenue Bonds Sold	30,973	0	0	0	0	0	0	0	30,973
Wastewater Renewal Fund	8,581	2,241	3,000	2,000	0	0	0	0	15,821
TOTAL REVENUES:	39,554	49,420	112,010	140,058	182,749	203,884	135,939	217,850	1,081,465
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	30,667	49,410	100,809	126,052	164,474	183,495	122,346	196,065	973,318
Planning and Design	3,407	5,490	11,201	14,006	18,275	20,388	13,594	21,785	108,146
TOTAL EXPENDITURES:	34,075	54,900	112,010	140,058	182,749	203,884	135,939	217,850	1,081,465

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

FY 2015 - 16 Adopted Budget and Multi-Year Capital Plan

NEEDS ASSESSMENTS PROJECTS - GENERAL OBLIGATION BONDS (GOB)

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
BBC GOB Financing	2,281	2,825	5,239	2,685	400	0	0	0	13,430
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	296	0	0	0	0	0	0	0	296
TOTAL REVENUES:	8,080	2,825	5,239	2,685	400	0	0	0	19,229
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	5,469	2,812	5,239	2,685	400	0	0	0	16,605
Land Acquisition/Improvements	265	0	0	0	0	0	0	0	265
Permitting	179	0	0	0	0	0	0	0	179
Planning and Design	2,093	13	0	0	0	0	0	0	2,106
Project Administration	74	0	0	0	0	0	0	0	74
TOTAL EXPENDITURES:	8,080	2,825	5,239	2,685	400	0	0	0	19,229

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	17,646	0	0	0	0	0	0	17,646
Future WASD Revenue Bonds	0	0	30,355	31,364	3,913	0	0	0	65,632
WASD Revenue Bonds Sold	13,029	0	0	0	0	0	0	0	13,029
Wastewater Connection Charges	1,006	0	0	0	0	0	0	0	1,006
TOTAL REVENUES:	14,035	17,646	30,355	31,364	3,913	0	0	0	97,313
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	12,632	15,881	27,319	28,228	3,522	0	0	0	87,582
Planning and Design	1,404	1,765	3,035	3,136	391	0	0	0	9,731
TOTAL EXPENDITURES:	14,035	17,646	30,355	31,364	3,913	0	0	0	97,313

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

FY 2015 - 16 Adopted Budget and Multi-Year Capital Plan

NW 37 AVE INDUSTRIAL DEVELOPMENT AREA - GENERAL OBLIGATION BONDS (GOB)

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
BBC GOB Financing	1,000	2,000	4,000	1,848	740	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:	1,633	2,000	4,000	1,848	740	0	0	0	10,221
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	1,013	2,000	4,000	1,848	740	0	0	0	9,601
Planning and Design	620	0	0	0	0	0	0	0	620
TOTAL EXPENDITURES:	1,633	2,000	4,000	1,848	740	0	0	0	10,221

WASTEWATER TREATMENT PLANTS EFFLUENT REUSE

PROJECT #: 965630

DESCRIPTION: Plan and construct facilities for an effluent reuse system at wastewater treatment plants
 LOCATION: Systemwide
 Various Sites

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	0	0	0	0	95,000	95,000
TOTAL REVENUES:	0	95,000	95,000						
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	0	0	0	0	0	0	0	86,450	86,450
Planning and Design	0	0	0	0	0	0	0	8,550	8,550
TOTAL EXPENDITURES:	0	95,000	95,000						

SYSTEM ENHANCEMENTS - GENERAL OBLIGATION BONDS (GOB)

PROJECT #: 966370

DESCRIPTION: Replace and install new pipelines in areas requiring service improvements
 LOCATION: Systemwide
 Various Sites

District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
BBC GOB Financing	400	400	600	300	100	0	0	0	1,800
BBC GOB Series 2005A	2,639	0	0	0	0	0	0	0	2,639
BBC GOB Series 2008B-1	50	0	0	0	0	0	0	0	50
BBC GOB Series 2011A	1,723	0	0	0	0	0	0	0	1,723
BBC GOB Series 2014A	500	0	0	0	0	0	0	0	500
TOTAL REVENUES:	5,312	400	600	300	100	0	0	0	6,712
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	5,114	400	600	300	100	0	0	0	6,514
Planning and Design	198	0	0	0	0	0	0	0	198
TOTAL EXPENDITURES:	5,312	400	600	300	100	0	0	0	6,712

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UPGRADE OF MIAMI SPRINGS PUMP STATIONS - GENERAL OBLIGATION BONDS (GOB)

PROJECT #: 967730

DESCRIPTION: Upgrade electrical control panels, pumps and proprietary SCADA system
 LOCATION: Various Sites
 Various Sites

District Located: 6
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
BBC GOB Financing	200	71	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:	767	71	0	0	0	0	0	0	838
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	767	71	0	0	0	0	0	0	838
TOTAL EXPENDITURES:	767	71	0	0	0	0	0	0	838

WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT

PROJECT #: 968090

DESCRIPTION: Install new sewer service to commercial properties utilizing septic tanks
 LOCATION: Various Sites
 Throughout Miami-Dade County

District Located: TBD
 District(s) Served: TBD

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	41	0	0	0	0	0	0	41
Future WASD Revenue Bonds	0	0	561	1,282	2,409	62,955	82,237	0	149,444
WASD Revenue Bonds Sold	163	0	0	0	0	0	0	0	163
TOTAL REVENUES:	163	41	561	1,282	2,409	62,955	82,237	0	149,648
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	147	37	505	1,154	2,168	56,660	74,013	0	134,684
Planning and Design	16	4	56	128	241	6,296	8,224	0	14,965
TOTAL EXPENDITURES:	163	41	561	1,282	2,409	62,955	82,237	0	149,648

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
 Throughout Miami-Dade County

District Located: Countywide
 District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	55,557	0	0	0	0	0	0	55,557
Future WASD Revenue Bonds	0	0	71,675	54,832	40,190	14,323	12,067	57,015	250,102
WASD Revenue Bonds Sold	27,302	0	0	0	0	0	0	0	27,302
Wastewater Connection Charges	22,797	0	0	0	0	0	0	0	22,797
Wastewater Renewal Fund	7,047	0	371	0	0	0	0	0	7,417
TOTAL REVENUES:	57,145	55,557	72,046	54,832	40,190	14,323	12,067	57,015	363,175
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	39,307	61,794	65,172	49,348	36,171	12,890	10,860	51,314	326,857
Planning and Design	4,367	6,866	7,241	5,483	4,019	1,432	1,207	5,702	36,317
TOTAL EXPENDITURES:	43,675	68,660	72,413	54,832	40,190	14,323	12,067	57,015	363,175

FY 2015 - 16 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
WASD Revenue Bonds Sold	1,438	0	0	0	0	0	0	0	1,438
Wastewater Renewal Fund	16,253	1,000	3,000	4,826	4,310	6,780	8,780	0	44,948
TOTAL REVENUES:	17,690	1,000	3,000	4,826	4,310	6,780	8,780	0	46,386
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	14,020	1,680	2,520	4,054	3,621	5,695	7,375	0	38,964
Planning and Design	2,670	320	480	772	690	1,085	1,405	0	7,422
TOTAL EXPENDITURES:	16,690	2,000	3,000	4,826	4,310	6,780	8,780	0	46,386

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Miami Springs Wastewater Construction Fund	1,326	0	0	0	0	0	0	0	1,326
TOTAL REVENUES:	1,326	0	0	0	0	0	0	0	1,326
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	977	180	36	0	0	0	0	0	1,193
Planning and Design	109	20	4	0	0	0	0	0	133
TOTAL EXPENDITURES:	1,086	200	40	0	0	0	0	0	1,326

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	5,000	7,010	2,500	1,000	0	0	15,510
WASD Revenue Bonds Sold	6,850	0	0	0	0	0	0	0	6,850
Water Construction Fund	344	0	0	0	0	0	0	0	344
Water Renewal and Replacement Fund	10	0	0	0	0	0	0	0	10
TOTAL REVENUES:	7,204	0	5,000	7,010	2,500	1,000	0	0	22,714
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	2,504	2,251	3,300	4,627	1,650	660	0	0	14,991
Major Machinery and Equipment	759	682	1,000	1,402	500	200	0	0	4,543
Planning and Design	531	477	700	981	350	140	0	0	3,180
TOTAL EXPENDITURES:	3,794	3,410	5,000	7,010	2,500	1,000	0	0	22,714

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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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	465	793	3,409	7,705	0	12,371
TOTAL REVENUES:	0	0	0	465	793	3,409	7,705	0	12,371
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	0	0	0	413	705	3,034	6,857	0	11,010
Planning and Design	0	0	0	51	87	375	848	0	1,361
TOTAL EXPENDITURES:	0	0	0	465	793	3,409	7,705	0	12,371

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
Unincorporated Miami-Dade County

District Located: 7
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	18,714	17,512	8,027	18,946	28,588	1,699	93,486
WASD Future Funding	0	0	0	0	0	0	0	31,546	31,546
WASD Revenue Bonds Sold	17,407	0	0	0	0	0	0	0	17,407
TOTAL REVENUES:	17,407	0	18,714	17,512	8,027	18,946	28,588	33,245	142,439
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	5,814	9,330	16,281	15,236	6,983	16,483	24,871	28,923	123,922
Major Machinery and Equipment	267	429	749	700	321	758	1,144	1,330	5,698
Planning and Design	601	965	1,684	1,576	722	1,705	2,573	2,992	12,820
TOTAL EXPENDITURES:	6,683	10,724	18,714	17,512	8,027	18,946	28,588	33,245	142,439

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	12,800	23,050	16,000	5,000	5,000	0	61,850
WASD Future Funding	0	0	0	0	0	0	0	5,250	5,250
WASD Revenue Bonds Sold	22,533	0	0	0	0	0	0	0	22,533
TOTAL REVENUES:	22,533	0	12,800	23,050	16,000	5,000	5,000	5,250	89,633
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	5,174	4,515	5,504	9,912	6,880	2,150	2,150	2,258	38,542
Major Machinery and Equipment	4,091	3,570	4,352	7,837	5,440	1,700	1,700	1,785	30,475
Planning and Design	2,768	2,415	2,944	5,302	3,680	1,150	1,150	1,208	20,616
TOTAL EXPENDITURES:	12,033	10,500	12,800	23,050	16,000	5,000	5,000	5,250	89,633

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

FY 2015 - 16 Adopted Budget and Multi-Year Capital Plan

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
WASD Revenue Bonds Sold	52	0	0	0	0	0	0	0	52
Water Renewal and Replacement Fund	38,177	13,530	7,000	7,400	7,000	7,000	7,000	55,000	142,107
TOTAL REVENUES:	38,229	13,530	7,000	7,400	7,000	7,000	7,000	55,000	142,159
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Furniture Fixtures and Equipment	52	0	0	0	0	0	0	0	52
Major Machinery and Equipment	30,099	21,608	7,000	7,400	7,000	7,000	7,000	55,000	142,107
TOTAL EXPENDITURES:	30,151	21,608	7,000	7,400	7,000	7,000	7,000	55,000	142,159

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	5,500	4,045	5,516	0	0	0	15,061
WASD Revenue Bonds Sold	3,089	0	0	0	0	0	0	0	3,089
Water Renewal and Replacement Fund	14,163	2,098	1,000	1,000	1,000	1,000	1,000	0	21,260
TOTAL REVENUES:	17,252	2,098	6,500	5,045	6,516	1,000	1,000	0	39,411
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Major Machinery and Equipment	11,158	7,031	6,110	4,742	6,125	940	940	0	37,046
Planning and Design	712	449	390	303	391	60	60	0	2,365
TOTAL EXPENDITURES:	11,870	7,480	6,500	5,045	6,516	1,000	1,000	0	39,411

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
WASD Revenue Bonds Sold	6,593	0	0	0	0	0	0	0	6,593
Water Renewal and Replacement Fund	33,880	18,373	21,000	21,000	23,000	23,000	23,000	0	163,252
TOTAL REVENUES:	40,473	18,373	21,000	21,000	23,000	23,000	23,000	0	169,845
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	38,449	17,454	19,950	19,950	21,850	21,850	21,850	0	161,353
Planning and Design	2,024	919	1,050	1,050	1,150	1,150	1,150	0	8,492
TOTAL EXPENDITURES:	40,473	18,373	21,000	21,000	23,000	23,000	23,000	0	169,845

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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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	3,670	0	0	0	0	0	0	3,670
Future WASD Revenue Bonds	0	0	2,000	1,458	1,451	1,350	1,350	1,410	9,019
WASD Revenue Bonds Sold	1,042	0	0	0	0	0	0	0	1,042
TOTAL REVENUES:	1,042	3,670	2,000	1,458	1,451	1,350	1,350	1,410	13,731
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	1,042	3,670	2,000	1,458	1,451	1,350	1,350	1,410	13,731
TOTAL EXPENDITURES:	1,042	3,670	2,000	1,458	1,451	1,350	1,350	1,410	13,731

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Wastewater Special Construction Fund	5,308	400	500	500	500	1,923	0	0	9,131
TOTAL REVENUES:	5,308	400	500	500	500	1,923	0	0	9,131
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	5,096	384	480	480	480	1,846	0	0	8,765
Planning and Design	212	16	20	20	20	77	0	0	365
TOTAL EXPENDITURES:	5,308	400	500	500	500	1,923	0	0	9,131

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	4,422	0	0	0	0	0	0	4,422
Future WASD Revenue Bonds	0	0	12,997	40,340	62,358	29,890	5,500	0	151,085
WASD Future Funding	0	0	0	0	0	0	0	828	828
WASD Revenue Bonds Sold	6,048	0	0	0	0	0	0	0	6,048
Wastewater Connection Charges	38,902	1,845	0	0	0	0	0	0	40,746
TOTAL REVENUES:	44,950	6,267	12,997	40,340	62,358	29,890	5,500	828	203,130
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	6,213	9,116	14,940	49,978	57,835	35,103	4,840	729	178,754
Land Acquisition/Improvements	282	414	679	2,272	2,629	1,596	220	33	8,125
Major Machinery and Equipment	282	414	679	2,272	2,629	1,596	220	33	8,125
Planning and Design	282	414	679	2,272	2,629	1,596	220	33	8,125
TOTAL EXPENDITURES:	7,060	10,360	16,977	56,794	65,721	39,890	5,500	828	203,130

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

FY 2015 - 16 Adopted Budget and Multi-Year Capital Plan

WATER 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	12,433	15,816	11,973	9,100	5,729	0	55,051
WASD Revenue Bonds Sold	1,782	0	0	0	0	0	0	0	1,782
TOTAL REVENUES:	1,782	0	12,433	15,816	11,973	9,100	5,729	0	56,833
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	385	1,201	11,065	14,077	10,656	8,099	5,099	0	50,581
Land Acquisition/Improvements	22	67	622	791	599	455	286	0	2,842
Planning and Design	26	81	746	949	718	546	344	0	3,410
TOTAL EXPENDITURES:	433	1,349	12,433	15,816	11,973	9,100	5,729	0	56,833

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
WASD Revenue Bonds Sold	552	0	0	0	0	0	0	0	552
Wastewater Renewal Fund	42,461	15,871	10,228	8,000	8,000	8,000	8,000	0	100,560
TOTAL REVENUES:	43,013	15,871	10,228	8,000	8,000	8,000	8,000	0	101,112
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Major Machinery and Equipment	42,388	16,496	10,228	8,000	8,000	8,000	8,000	0	101,112
TOTAL EXPENDITURES:	42,388	16,496	10,228	8,000	8,000	8,000	8,000	0	101,112

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
WASD Revenue Bonds Sold	3,188	0	0	0	0	0	0	0	3,188
Wastewater Renewal Fund	28,559	15,615	15,500	16,174	18,690	16,220	16,220	162,500	289,478
TOTAL REVENUES:	31,747	15,615	15,500	16,174	18,690	16,220	16,220	162,500	292,666
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	26,668	13,116	13,020	13,586	15,699	13,625	13,625	136,500	245,840
Planning and Design	5,080	2,498	2,480	2,588	2,990	2,595	2,595	26,000	46,827
TOTAL EXPENDITURES:	31,747	15,615	15,500	16,174	18,690	16,220	16,220	162,500	292,666

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LIFT STATION UPGRADES AND STRUCTURAL MAINTENANCE 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	2,000	3,000	3,000	3,000	3,000	3,984	17,984
WASD Revenue Bonds Sold	2,409	0	0	0	0	0	0	0	2,409
Wastewater Renewal Fund	10,504	2,260	2,297	2,000	2,000	2,000	2,000	0	23,062
TOTAL REVENUES:	12,913	2,260	4,297	5,000	5,000	5,000	5,000	3,984	43,454
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	10,396	3,412	3,911	4,550	4,550	4,550	4,550	3,625	39,544
Planning and Design	1,028	337	387	450	450	450	450	359	3,911
TOTAL EXPENDITURES:	11,424	3,749	4,297	5,000	5,000	5,000	5,000	3,984	43,454

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

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Water Special Construction Fund	5,795	1,000	1,000	1,000	2,000	3,815	0	0	14,610
TOTAL REVENUES:	5,795	1,000	1,000	1,000	2,000	3,815	0	0	14,610
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	5,795	1,000	1,000	1,000	2,000	3,815	0	0	14,610
TOTAL EXPENDITURES:	5,795	1,000	1,000	1,000	2,000	3,815	0	0	14,610

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	7,052	0	0	0	0	0	0	7,052
Future WASD Revenue Bonds	0	0	10,006	78,837	69,635	89,373	24,662	5,962	278,475
WASD Future Funding	0	0	0	0	0	0	0	24,390	24,390
WASD Revenue Bonds Sold	1,595	0	0	0	0	0	0	0	1,595
TOTAL REVENUES:	1,595	7,052	10,006	78,837	69,635	89,373	24,662	30,352	311,512
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	1,053	4,654	6,604	52,033	45,959	58,986	16,277	20,032	205,598
Major Machinery and Equipment	479	2,115	3,002	23,651	20,890	26,812	7,399	9,105	93,454
Planning and Design	64	282	400	3,153	2,785	3,575	986	1,214	12,460
TOTAL EXPENDITURES:	1,595	7,052	10,006	78,837	69,635	89,373	24,662	30,352	311,512

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PUMP STATION IMPROVEMENTS PROGRAM

PROJECT #: 9651071

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

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	33,500	0	0	0	0	0	0	33,500
Future WASD Revenue Bonds	0	0	41,500	46,000	30,950	36,773	32,000	8,000	195,223
WASD Revenue Bonds Sold	20,548	0	0	0	0	0	0	0	20,548
Wastewater Connection Charges	0	3,200	11,302	1,227	0	0	0	0	15,729
TOTAL REVENUES:	20,548	36,700	52,802	47,227	30,950	36,773	32,000	8,000	265,000
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	17,261	28,140	34,860	38,640	38,179	31,920	26,880	6,720	222,600
Planning and Design	3,288	5,360	6,640	7,360	7,272	6,080	5,120	1,280	42,400
TOTAL EXPENDITURES:	20,548	33,500	41,500	46,000	45,452	38,000	32,000	8,000	265,000

PUMP STATION 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	4,310	0	0	0	0	0	0	4,310
Future WASD Revenue Bonds	0	0	6,627	8,166	6,035	4,950	4,000	0	29,777
WASD Future Funding	0	0	0	0	0	0	0	67,000	67,000
WASD Revenue Bonds Sold	3,530	0	0	0	0	0	0	0	3,530
TOTAL REVENUES:	3,530	4,310	6,627	8,166	6,035	4,950	4,000	67,000	104,617
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	3,318	4,052	6,229	7,676	5,672	4,653	3,760	62,980	98,340
Planning and Design	212	259	398	490	362	297	240	4,020	6,277
TOTAL EXPENDITURES:	3,530	4,310	6,627	8,166	6,035	4,950	4,000	67,000	104,617

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	3,762	0	0	0	0	0	0	3,762
Future WASD Revenue Bonds	0	0	3,834	0	0	0	0	0	3,834
WASD Future Funding	0	0	0	0	0	0	0	7,500	7,500
WASD Revenue Bonds Sold	1,654	0	0	0	0	0	0	0	1,654
TOTAL REVENUES:	1,654	3,762	3,834	0	0	0	0	7,500	16,750
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	1,489	3,385	3,451	0	0	0	0	6,750	15,075
Major Machinery and Equipment	66	150	153	0	0	0	0	300	670
Planning and Design	99	226	230	0	0	0	0	450	1,005
TOTAL EXPENDITURES:	1,654	3,762	3,834	0	0	0	0	7,500	16,750

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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:
District(s) Served:

Systemwide
Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	2,296	0	0	0	0	0	0	2,296
Future WASD Revenue Bonds	0	0	2,948	26,754	23,840	40,848	33,499	100,593	228,482
WASD Future Funding	0	0	0	0	0	0	0	30,960	30,960
WASD Revenue Bonds Sold	446	0	0	0	0	0	0	0	446
Wastewater Connection Charges	1,266	2,793	2,254	4,924	0	0	0	0	11,238
TOTAL REVENUES:	1,712	5,089	5,202	31,678	23,840	40,848	33,499	131,553	273,422
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	930	2,539	4,184	27,850	26,095	46,772	33,499	131,553	273,422
TOTAL EXPENDITURES:	930	2,539	4,184	27,850	26,095	46,772	33,499	131,553	273,422

Estimated Annual Operating Impact will begin in FY 2017-18 in the amount of \$2,330,000

WASTEWATER TELEMETERING SYSTEM

PROJECT #: 9652481

DESCRIPTION: Install a computer system to monitor and control wastewater flows and pressures at various pump stations

LOCATION: Systemwide
Various Sites

District Located:
District(s) Served:

Systemwide
Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	700	0	0	0	0	0	0	700
Future WASD Revenue Bonds	0	0	579	0	0	0	0	0	579
WASD Revenue Bonds Sold	1,376	0	0	0	0	0	0	0	1,376
Wastewater Renewal Fund	1,545	245	0	0	0	0	0	0	1,790
TOTAL REVENUES:	2,921	945	579	0	0	0	0	0	4,444
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	1,229	975	330	0	0	0	0	0	2,533
Planning and Design	927	735	249	0	0	0	0	0	1,911
TOTAL EXPENDITURES:	2,156	1,710	579	0	0	0	0	0	4,444

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

FY 2015 - 16 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	10,904	0	0	0	0	0	0	10,904
Future WASD Revenue Bonds	0	0	18,558	20,155	14,761	28,325	99,743	80,578	262,119
WASD Revenue Bonds Sold	6,023	0	0	0	0	0	0	0	6,023
Water Construction Fund	1,994	0	0	0	0	0	0	0	1,994
TOTAL REVENUES:	8,017	10,904	18,558	20,155	14,761	28,325	99,743	80,578	281,040
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	6,032	11,754	17,444	18,946	13,875	26,626	93,758	75,743	264,178
Planning and Design	385	750	1,113	1,209	886	1,700	5,985	4,835	16,862
TOTAL EXPENDITURES:	6,417	12,504	18,558	20,155	14,761	28,325	99,743	80,578	281,040

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

WASTEWATER 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	5,781	0	0	0	0	0	0	5,781
Future WASD Revenue Bonds	0	0	9,902	22,035	17,640	11,538	7,815	0	68,931
WASD Future Funding	0	0	0	0	0	0	0	74,500	74,500
WASD Revenue Bonds Sold	1,520	0	0	0	0	0	0	0	1,520
TOTAL REVENUES:	1,520	5,781	9,902	22,035	17,640	11,538	7,815	74,500	150,732
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	1,261	4,798	8,219	18,289	14,641	9,577	6,487	61,835	125,108
Land Acquisition/Improvements	76	289	495	1,102	882	577	391	3,725	7,537
Planning and Design	182	694	1,188	2,644	2,117	1,385	938	8,940	18,088
TOTAL EXPENDITURES:	1,520	5,781	9,902	22,035	17,640	11,538	7,815	74,500	150,732

Estimated Annual Operating Impact will begin in FY 2015-16 in the amount of \$325,000

FY 2015 - 16 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	608	0	0	0	0	0	0	608
Future WASD Revenue Bonds	0	0	608	608	3,526	0	0	0	4,743
WASD Future Funding	0	0	0	0	0	0	0	5,165	5,165
WASD Revenue Bonds Sold	771	0	0	0	0	0	0	0	771
Wastewater Renewal Fund	40,422	7,408	7,000	7,000	7,000	7,000	7,000	0	82,830
TOTAL REVENUES:	41,193	8,016	7,608	7,608	10,526	7,000	7,000	5,165	94,118
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	20,834	20,502	6,391	6,391	8,842	5,880	5,880	4,339	79,059
Planning and Design	3,968	3,905	1,217	1,217	1,684	1,120	1,120	826	15,059
TOTAL EXPENDITURES:	24,802	24,407	7,608	7,608	10,526	7,000	7,000	5,165	94,118

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	4,457	0	0	0	0	0	0	4,457
Future WASD Revenue Bonds	0	0	2,113	2,113	4,113	3,038	0	390,000	401,378
WASD Revenue Bonds Sold	7,562	0	0	0	0	0	0	0	7,562
Wastewater Renewal Fund	10,728	0	0	0	0	0	0	0	10,728
TOTAL REVENUES:	18,290	4,457	2,113	2,113	4,113	3,038	0	390,000	424,125
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	13,762	6,483	1,881	1,881	3,661	2,704	0	347,100	377,471
Planning and Design	1,701	801	232	232	452	334	0	42,900	46,654
TOTAL EXPENDITURES:	15,463	7,284	2,113	2,113	4,113	3,038	0	390,000	424,125

ATER 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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	44,652	68,160	59,301	38,666	20,000	17,000	247,778
WASD Future Funding	0	0	0	0	0	0	0	675,000	675,000
WASD Revenue Bonds Sold	24,074	0	0	0	0	0	0	0	24,074
Water Connection Charges	21,639	4,006	10,342	3,802	0	0	0	0	39,789
Water Renewal and Replacement Fund	33,554	0	2,000	2,000	2,000	2,000	2,000	0	43,554
TOTAL REVENUES:	79,267	4,006	56,993	73,961	61,301	40,666	22,000	692,000	1,030,194
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	45,819	24,657	51,468	64,433	53,332	35,379	19,140	602,040	896,269
Planning and Design	6,846	3,684	7,691	9,628	7,969	5,287	2,860	89,960	133,925
TOTAL EXPENDITURES:	52,665	28,342	59,159	74,061	61,301	40,666	22,000	692,000	1,030,194

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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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	16,474	0	0	0	0	0	0	16,474
Future WASD Revenue Bonds	0	0	23,757	76,685	88,794	143,306	98,189	208,513	639,244
WASD Revenue Bonds Sold	1,159	0	0	0	0	0	0	0	1,159
Wastewater Connection Charges	31,525	8,205	0	0	0	0	0	0	39,730
TOTAL REVENUES:	32,684	24,679	23,757	76,685	88,794	143,306	98,189	208,513	696,607
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	28,903	22,724	21,382	69,016	79,914	128,975	88,370	187,662	626,946
Planning and Design	3,211	2,525	2,376	7,668	8,879	14,331	9,819	20,851	69,661
TOTAL EXPENDITURES:	32,115	25,248	23,757	76,685	88,794	143,306	98,189	208,513	696,607

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	1,500	0	0	0	0	0	0	1,500
Future WASD Revenue Bonds	0	0	3,000	1,700	500	0	0	0	5,200
WASD Revenue Bonds Sold	800	0	0	0	0	0	0	0	800
TOTAL REVENUES:	800	1,500	3,000	1,700	500	0	0	0	7,500
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	792	1,485	2,970	1,683	495	0	0	0	7,425
Planning and Design	8	15	30	17	5	0	0	0	75
TOTAL EXPENDITURES:	800	1,500	3,000	1,700	500	0	0	0	7,500

SOUTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	8,463	0	0	0	0	0	0	8,463
Future WASD Revenue Bonds	0	0	10,519	29,867	37,019	49,384	59,741	102,000	288,530
WASD Future Funding	0	0	0	0	0	0	0	182,500	182,500
WASD Revenue Bonds Sold	29,109	0	0	0	0	0	0	0	29,109
TOTAL REVENUES:	29,109	8,463	10,519	29,867	37,019	49,384	59,741	284,500	508,601
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	22,996	6,686	8,310	23,595	29,245	39,013	47,195	224,755	401,795
Planning and Design	6,113	1,777	2,209	6,272	7,774	10,371	12,546	59,745	106,806
TOTAL EXPENDITURES:	29,109	8,463	10,519	29,867	37,019	49,384	59,741	284,500	508,601

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NORTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	3,973	0	0	0	0	0	0	3,973
Future WASD Revenue Bonds	0	0	7,362	11,819	26,758	6,228	68,890	73,098	194,155
WASD Future Funding	0	0	0	0	0	0	0	100,225	100,225
WASD Revenue Bonds Sold	338	0	0	0	0	0	0	0	338
TOTAL REVENUES:	338	3,973	7,362	11,819	26,758	6,228	68,890	173,323	298,691
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	304	3,575	6,626	10,637	24,082	5,605	62,001	155,991	268,822
Major Machinery and Equipment	7	79	147	236	535	125	1,378	3,466	5,974
Planning and Design	27	318	589	946	2,141	498	5,511	13,866	23,895
TOTAL EXPENDITURES:	338	3,973	7,362	11,819	26,758	6,228	68,890	173,323	298,691

CENTRAL DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	17,676	0	0	0	0	0	0	17,676
Future WASD Revenue Bonds	0	0	31,013	36,620	26,695	19,028	129,230	158,233	400,819
WASD Future Funding	0	0	0	0	0	0	0	8,500	8,500
WASD Revenue Bonds Sold	15,799	0	0	0	0	0	0	0	15,799
TOTAL REVENUES:	15,799	17,676	31,013	36,620	26,695	19,028	129,230	166,733	442,795
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	8,385	22,078	28,222	33,325	24,292	17,315	117,599	151,727	402,943
Planning and Design	829	2,183	2,791	3,296	2,403	1,712	11,631	15,006	39,852
TOTAL EXPENDITURES:	9,214	24,261	31,013	36,620	26,695	19,028	129,230	166,733	442,795

Estimated Annual Operating Impact will begin in FY 2015-16 in the amount of \$200,000

WATER SYSTEM FIRE HYDRANT INSTALLATION

PROJECT #: 9653461

DESCRIPTION: Install fire hydrants and construct related system improvements

LOCATION: Systemwide
Various Sites

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Fire Hydrant Fund	28,156	2,500	2,500	2,500	2,500	3,000	9,500	0	50,656
TOTAL REVENUES:	28,156	2,500	2,500	2,500	2,500	3,000	9,500	0	50,656
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	25,340	2,250	2,250	2,250	2,250	2,700	8,550	0	45,590
Planning and Design	2,816	250	250	250	250	300	950	0	5,066
TOTAL EXPENDITURES:	28,156	2,500	2,500	2,500	2,500	3,000	9,500	0	50,656

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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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	2,105	0	0	0	0	0	0	2,105
Future WASD Revenue Bonds	0	0	6,930	10,362	52,854	59,089	12,285	0	141,520
TOTAL REVENUES:	0	2,105	6,930	10,362	52,854	59,089	12,285	0	143,625
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	0	1,853	6,099	9,118	46,512	51,998	10,810	0	126,390
Planning and Design	0	253	832	1,243	6,342	7,091	1,474	0	17,235
TOTAL EXPENDITURES:	0	2,105	6,930	10,362	52,854	59,089	12,285	0	143,625

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	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	433	433	0	0	0	0	866
WASD Revenue Bonds Sold	433	0	0	0	0	0	0	0	433
Water Renewal and Replacement Fund	1,194	0	1,000	1,000	1,000	1,000	1,000	0	6,194
TOTAL REVENUES:	1,627	0	1,433	1,433	1,000	1,000	1,000	0	7,493
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	784	843	1,433	1,433	1,000	1,000	1,000	0	7,493
TOTAL EXPENDITURES:	784	843	1,433	1,433	1,000	1,000	1,000	0	7,493

SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION

PROJECT #: 96510240

DESCRIPTION: Construct treatment facilities for high level disinfection to meet regulatory requirements at the South District Wastewater Treatment Plant
 LOCATION: 8950 SW 232 St District Located: 8
 Unincorporated Miami-Dade County District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	1,922	0	0	0	0	0	0	1,922
HLD Special Construction Fund	39,560	0	0	0	0	0	0	0	39,560
WASD Revenue Bonds Sold	1,000	0	0	0	0	0	0	0	1,000
TOTAL REVENUES:	40,560	1,922	0	0	0	0	0	0	42,481
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	39,749	1,883	0	0	0	0	0	0	41,632
Planning and Design	811	38	0	0	0	0	0	0	850
TOTAL EXPENDITURES:	40,560	1,922	0	0	0	0	0	0	42,481

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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
 Throughout Miami-Dade County

District Located: Countywide
 District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
2015 WASD Revenue Bonds Sold	0	8,675	0	0	0	0	0	0	8,675
Future WASD Revenue Bonds	0	0	25,150	28,350	16,000	21,332	12,500	20,000	123,332
WASD Revenue Bonds Sold	24,612	0	0	0	0	0	0	0	24,612
Water Renewal and Replacement Fund	2,800	0	11,150	4,600	0	0	0	0	18,550
TOTAL REVENUES:	27,412	8,675	36,300	32,950	16,000	21,332	12,500	20,000	175,169
EXPENDITURE SCHEDULE:	PRIOR	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	FUTURE	TOTAL
Construction	6,209	24,882	31,886	28,667	13,920	18,558	10,875	17,400	152,397
Planning and Design	928	3,718	4,765	4,284	2,080	2,773	1,625	2,600	22,772
TOTAL EXPENDITURES:	7,137	28,600	36,650	32,950	16,000	21,332	12,500	20,000	175,169