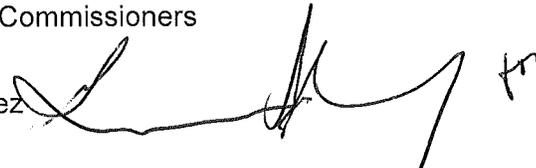


Memorandum



Date: June 28, 2013

To: Honorable Chairwoman Rebeca Sosa and Members
Board of County Commissioners

From: Carlos A. Gimenez 
Mayor

Subject: Advertisement for Pump Station 3 (Brickell Area) Construction

As you know, I have committed to the Board that I will present for your consideration contracts for the design and construction of significant water and sewer projects to ensure complete transparency in the selection and bid award process. One very significant set of projects that have been in development for the past several months is a new sewer pump station and associated piping to provide more capacity in the Brickell area. The schedule for this work was established on the basis of development projects already under construction, such as the Brickell City Centre project, which is estimated at \$1.05 billion, and it is of the utmost importance to solicit bids and award contracts to have capacity available when needed. For that reason I have authorized the advertising of the bid solicitation for construction of the pump station. The actual award of this contract will be considered by the Board after bids are received and analyzed. This contract is expected to be in the range of \$21 million, much of which represents the cost of equipment and specialized construction below the ground water as the pump station will be approximately three stories below ground. The Small Business Enterprise goal of 2.59% was carefully reviewed in terms of the nature of the work required and the capacity of small business firms to do that work. Because of the high equipment costs and the very specialized construction experience required by the prime contractor, the opportunities for small business participation are somewhat smaller as a percentage of the total project cost than would be the case for a less complex structure.

The Request to Advertise documents for the pump station construction are attached for your information. Once the bids are reviewed, a recommendation for award will be presented to the Board for consideration in a timely manner. Documents for a design/build project for the piping to the pump station are in development, and I will provide similar information for that project when it is ready for advertisement. I appreciate your assistance and cooperation as we proceed to address these critical infrastructure issues.

If you have any questions, please feel free to contact me directly at 305-375-1880.

c: R. A. Cuevas Jr., County Attorney
Alina T. Hudak, Deputy Mayor
Jack Osterholt, Deputy Mayor and Director of Regulatory and Economic Resources
John W. Renfrow, P.E., Director, Water and Sewer Department

#253261

MEMORANDUM



Date: 5/31/2013

To: Carlos A. Gimenez
County Mayor

From: John W. Renfrow, P.E. *John W Renfrow*
Director
Miami-Dade Water and Sewer Department

Subject: Request to Advertise for Proposed Master Pump Station No. 3 - Project No: S-852;
Contract No: S-852

RECEIVED
MAY 31 2013
5:20 PM
MAY 31 2013

Recommendation

This Request to Advertise for Contract No. S-852 for Proposed Master Pump Station No. 3 has been prepared by the Miami-Dade Water and Sewer Department (WASD) and is recommended for approval pursuant to Sections 2-8.1 of the Code of Miami-Dade County.

Scope

PROJECT NAME: Master Pump Station No. 3

PROJECT NO: S-852

CONTRACT NO: S-852

PROJECT DESCRIPTION: This project is one in a series of projects that will provide the sewer system capacity needed to accommodate the large scale developments proposed for the Brickell Basin II area. WASD has determined that facilities currently serving the area are inadequate to serve increased usage in existing buildings, or new buildings expected to be constructed.

The project consists of furnishing all materials, labor, and equipment necessary to construct the "Proposed Master Pump Station No. 3", located at 1110 S.W. 3rd Avenue, in Miami-Dade County, Florida.

The scope of work includes, but it is not limited to, constructing two (2) multilevel structures (pump station building and generator building); four (4) 300 horsepower centrifugal vertical non-clog sewage pumps and motors; furnishing and installing four (4) variable frequency drives; furnishing and installing four (4) 24-inch ball valves with hydraulic reservoir system and mechanical controls; furnishing and installing ductile iron piping, valves and fittings; furnishing and installing an odor control system; furnishing and installing a 1,500 kilowatt 4,160 Volt standby emergency diesel generator, a 12,000 gallon diesel fuel storage tank with appurtenances, a 275 gallon diesel fuel day tank with fuel pump, air compressors, and associated valves, controls and piping diesel fuel pump supply and return lines, one (1) diesel fuel fill station; constructing a coffer cell structure for the pump

station building; furnishing and installing one (1) magnetic flow meter and flow meter concrete vault; furnishing bridge crane, hoist, trolley and appurtenances; furnishing and installing air compressors, hydro-pneumatic accumulator and associated valves, controls and piping; furnishing and installing sampling equipment; furnishing and installing air conditioning system; constructing duct banks; furnishing and installing transformers, switchgears, instrumentation, motor control centers, battery system and appurtenances; furnishing and installing all conduits, power cables, instrumentation cables, fiber optic cables, control panels, fiber optic panels, operator console and appurtenances; providing the services of a system integrator; dewatering; furnishing and installing fire alarm system, grounding, lightning protection and appurtenances; furnishing and installing doors, overhead cooling doors, interior windows, access hatches and hardware; installing toilet room, building plumbing, drains, water and sewer services; installing all interior and exterior building finishes to include bathrooms, stucco, tile, counters and painting; providing the services of the manufacturers field technician for installation and startup; and all other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation.

PROJECT LOCATION: 1110 S.W. 3rd Avenue, in the City of Miami, Miami-Dade County, Florida

PROJECT SITES:	<u>SITE #</u>	<u>LOCATION 1</u>	<u>DIST</u>	<u>ESTIMATE</u>	<u>T-S-R</u>
	#68523	Various Locations	13	\$21,000,610.00	--

PRIMARY COMMISSION DISTRICT: District 7 Xavier L. Suarez

APPROVAL PATH: Mayor's Authority Section 2-8.1 of the Miami-Dade County Code

USING DEPARTMENT: Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT: Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE:	<u>SOURCE</u>	<u>PROJECT NUM</u>	<u>SITE #</u>
	WASD Revenue Bonds Sold	9653371	#68523
	Wastewater Renewal Fund	9653371	#68523
	Plant Expansion Fund - Wastewater	9653371	#68523

PTP FUNDING: No

GOB FUNDING: No

ARRA FUNDING: No

CAPITAL BUDGET PROJECT:	CAPITAL BUDGET PROJECT # - DESCRIPTION 9653371- PEAK FLOW MANAGEMENT FACILITIES Book Page: 246 Funding Year: Adopted Capital Budget Book for FY 2012-18 and Prior Years' Funds	<u>RTA</u> <u>ESTIMATE</u> \$21,000,610.00
--------------------------------	--	--

PROJECT TECHNICAL CERTIFICATION REQUIREMENTS: One of the following licenses is required: State General Contractor, General Engineering Contractor, and/or other category as applicable to Chapter 489 of the Florida Statutes or Chapter 10 of the Miami-Dade County Code.

ESTIMATED CONTRACT PERIOD: 450 Days. Excludes Warranty Administration Period

ESTIMATED CONTINGENCY PERIOD: 45 Days.

IG FEE INCLUDED IN BASE CONTRACT: Yes

ART IN PUBLIC PLACES: No

BASE ESTIMATE: \$18,261,400.00

CONTINGENCY ALLOWANCE (SECTION 2-8.1 MIAMI DADE COUNTY CODE):	TYPE	PERCENT	AMOUNT	COMMENT
	Infrastructure	10%	\$1,826,140.00	

PERMIT FEES : \$913,070.00 5.00%

TOTAL DEDICATED ALLOWANCE: \$913,070.00

COST ESTIMATE: \$21,000,610.00

Track Record / Monitor

EXPLANATION: Not Applicable. Information will be provided at the time of contract award.

MINIMUM QUALIFICATIONS EXCEED LEGAL REQUIREMENTS: Yes The Bidder must be experienced in pump station construction, including installation of dry pit vertical non-clog pumps, medium voltage electrical power systems and standby diesel generators. The Bidder shall also be experienced in the construction of structures on piles, coffer cell and tremie seal design and construction, and construction methods to minimize noise, dust, and other impacts to surrounding residential neighborhoods.

The Bidder must have successfully completed the installation of a minimum of three (3) hydraulic structures within the last ten (10) years from the date of this solicitation, meeting the following requirements:

- (1) Structure ground floor a minimum of ten (10) feet below the average ground water level elevation.
- (2) Structure construction requiring installation of sheet piling, coffer cell and tremie seal with a minimum tremie seal volume of 200 cubic yards.

The Bidder shall have successfully completed the installation of a minimum of three (3) raw sewage pump stations within the last five (5) years from the date of this solicitation, meeting the following requirement:

- (1) Installation of dry pit vertical turbine non-clog pumps (minimum 150 horsepower)

The Bidder or his electrical subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with medium voltage power supply and standby diesel generators within the last five (5) years, meeting the following requirements:

- Minimum generator size: 1,250 kW
- Medium voltage switchgear

**REVIEW
COMMITTEE:**

MEETING DATE: 4/9/2013

SIGNOFF DATE: 5/10/2013

**RESPONSIBLE
WAGES:**

Yes

**REVIEW
COMMITTEE
ASSIGNED
CONTRACT
MEASURES:**

TYPE GOAL

COMMENT

CSBE 2.59% The estimated value is the product of the goal percentage multiplied times the sum of the Base Contract Amount plus the Contingency Allowance Amount.

CWP 0.00% Not Applicable

**MANDATORY
CLEARING
HOUSE:**

Yes

**CONTRACT
MANAGER NAME /
PHONE / EMAIL:**

Isaac Smith

786-268-5196

ISMIT01@miamidade.gov

**PROJECT
MANAGER NAME /
PHONE / EMAIL:**

George L. Aguiar

786-552-8183

GLAGU01@miamidade.gov

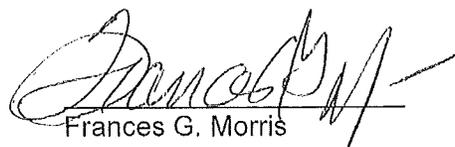
Background

BACKGROUND: WASD determined that improvements were required to the sewer facilities serving the area bounded by the Miami River to the north, I-95 to the west, SW 21st Street to the south and Biscayne Bay to the east, known as the Brickell Basin II Area. The facilities currently serving the area are inadequate to serve increased usage in existing buildings, or new buildings expected to be constructed.

On May 1, 2012, the Board of County Commissioners approved Ordinance No. 12-36, which authorized and approved a special sewer construction connection charge for buildings and properties within the Brickell Basin II and provided for collection of said charges by the Miami-Dade Water and Sewer Department.

This project is one in a series of projects that will provide the sewer system capacity needed to accommodate the large scale developments proposed for this area. The work includes construction of Proposed Master Pump Station No. 3 to replace existing Pump Station No. 8, which does not have available capacity for peak flows nor future growth. Master Pump Station No. 3 will be constructed on newly purchased properties located at 1042, 1100 and 1110 S.W. 3rd Avenue. The proposed facility will be comprised of a multilevel pump station building and dedicated generator building. The construction of this new facility will also require the construction of several gravity sewer and force mains, necessary to rerouting of sewage flows, which are not in this contract.

DEPARTMENT
FINANCE:



Frances G. Morris

5/30/13
DATE:

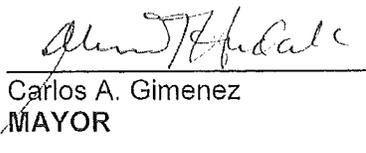
DEPT FINANCE OFFICER:

BUDGET
APPROVAL FUNDS
AVAILABLE:



Jennifer Moon
OMB DIRECTOR

6/3/13
DATE



Carlos A. Gimenez
MAYOR

6/20/13
DATE

CLERK DATE

DATE

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REQUEST TO ADVERTISE
PROPOSED MASTER PUMP STATION NO. 3

CONTRACT NO: S-852

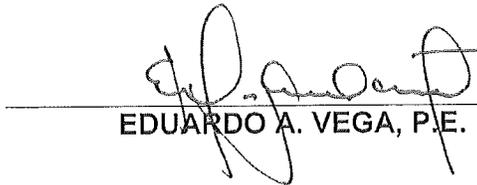
BUDGET PROJECT AND
DESCRIPTION:

9653371-PEAK FLOW MANAGEMENT FACILITIES

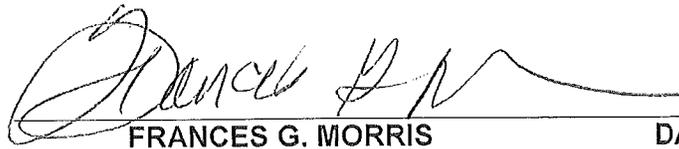
ASSISTANT DIRECTOR,
WASTEWATER - OPERATIONS:


VICENTE E. ARREBOLA, P.E. 5-29-2013
DATE

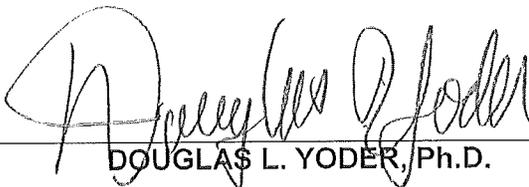
ASSISTANT DIRECTOR,
ENGINEERING AND CAPITAL
IMPROVEMENTS:


EDUARDO A. VEGA, P.E. May 31, 2013
DATE

ASSISTANT DIRECTOR,
FINANCE:


FRANCES G. MORRIS 5/30/13
DATE

DEPUTY DIRECTOR,
REGULATORY COMPLIANCE
AND CAPITAL IMPROVEMENTS:


DOUGLAS L. YODER, Ph.D. 5/29/2013
DATE



Small Business Development Division
Project Worksheet

Project/Contract Title: MASTER PUMP STATION NO. 3
Project/Contract No: S-852
Department: WATER & SEWER DEPARTMENT
Estimated Cost of Project/Bid: \$20,087,540.00

Funding Source: EW 623, PLANT EXPANSION FUND

Received Date: 04/09/2013

Description of Project/Bid: To establish a contract that consists of furnishing all materials, labor and equipment necessary to construct proposed sewerage Master Pump Station No. 3, including, but not limited to, constructing two multilevel structures (pump station building and generator building); four (4) 300 horsepower centrifugal vertical non-clog sewage pumps and motors; furnishing and installing four (4) variable frequency drives; furnishing and installing four (4) 24-inch ball valves with hydraulic reservoir system and mechanical controls; furnishing and installing ductile iron piping, valves and fittings; furnishing and installing an odor control system; furnishing and installing a 1,500 kilowatt 4,160

Resubmittal Date(s):

Contract Measures Recommendation

<u>Measure</u>	<u>Program</u>	<u>Goal Percent</u>
Goal	CSBE	2.59%

Reasons for Recommendation

An analysis of the factors contained in Section VI C of Implementing Order 3-22 indicate that a CSBE goal is appropriate.

Verification of Availability to Bid Letters were sent to CSBE firms certified in the Electrical Trade in an attempt to increase the subcontractor goal recommendation. Four (4) responses were received, of which one (1) met this project's specified criteria for the electrical scope of work.

CWP Not Applicable: Not in DTA

Trade Category: 237310-Highway, Street, And Bridge Construction; 237990-Other Heavy And Civil Engineering Construction; 238140-Masonry Contractors; 238160-Roofing Contractors; 238220-Plumbing, Heating, And Air-Conditioning Contractors; 238290-Other Building Equipment Contractors; 238320-Painting And Wall Covering Contractors; 238350-Finish Carpentry Contractors; 238910-Site Preparation Contractors; 238990-All Other Specialty Trade Contractors

Small Business Contract Measure Recommendation

<u>Subtrade</u>	<u>Cat.</u>	<u>Estimated Value</u>	<u>% of Items to Base Bid</u>	<u>Availability</u>
Highway, Street, and Bridge Construction	CSBE	\$11,289.20	0.06%	86
Other Heavy and Civil Engineering Construction	CSBE	\$55,983.97	0.28%	60
Masonry Contractors	CSBE	\$72,094.18	0.36%	0
Roofing Contractors	CSBE	\$85,191.26	0.42%	67
All Other Specialty Trade Contractors	CSBE	\$23,582.77	0.12%	66
Other Building Equipment Contractors	CSBE	\$74,685.47	0.37%	9
Painting and Wall Covering Contractors	CSBE	\$19,987.10	0.10%	54
Finish Carpentry Contractors	CSBE	\$23,281.46	0.12%	17
Site Preparation Contractors	CSBE	\$78,100.36	0.39%	386
Plumbing, Heating, and Air-Conditioning Contractors	CSBE	\$75,488.98	0.38%	111
Total		\$519,684.75	2.59%	

Living Wages: YES NO **Highway:** YES NO **Heavy Construction:** YES NO
Responsible Wages: YES NO **Building:** YES NO

Responsible Wages and Benefits applies to all construction projects over \$100,000 that do not utilize federal fund. For federally funded projects, unless prohibited by federal or state law or disallowed by a governmental funding source, the HIGHER wage between Davis Bacon and Responsible Wages and Benefits shall apply.



Small Business Development Division
Project Worksheet

Project/Contract Title: MASTER PUMP STATION NO. 3
Project/Contract No: S-852
Department: WATER & SEWER DEPARTMENT
Estimated Cost of Project/Bid: \$20,087,540.00

Funding Source: EW 623, PLANT EXPANSION FUND

Received Date: 04/09/2013

Resubmittal Date(s):

REVIEW RECOMMENDATION

Form with fields: Tier 1 Set Aside, Tier 2 Set Aside, Set Aside Level 1, Level 2, Level 3, Trade Set Aside (MCC), Goal, Bid Preference, No Measure, Deferred, Selection Factor, CWP, SBD Director signature, Date 6/17/13

STRATEGIC AREA: Neighborhood and Infrastructure
 DEPARTMENT: Water and Sewer

***** FUNDED PROJECTS *****
 (dollars in thousands)

PEAK FLOW MANAGEMENT FACILITIES

PROJECT # 9653371

DESCRIPTION: Evaluate and construct alternatives for peak flow management facilities and associated infrastructure

LOCATION:	Systemwide		Various Sites		DISTRICT LOCATED:	Systemwide		DISTRICT(S) SERVED:	Systemwide	
ESTIMATED ANNUAL OPERATING IMPACT:	Minimal									
REVENUE SCHEDULE:	PRIOR	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	FUTURE	TOTAL	
Wastewater Connection Charges	24,970	0	0	0	0	0	0	0	24,970	
Wastewater Renewal Fund	1,473	15,000	0	0	0	0	0	0	16,473	
WASD Revenue Bonds Sold	172	0	0	0	0	0	0	0	172	
Future WASD Revenue Bonds	0	0	6,333	34,995	42,755	122,030	225,867	461,706	893,686	
WASD Future Funding	0	0	0	0	0	0	0	9,800	9,800	
TOTAL REVENUE:	26,615	15,000	6,333	34,995	42,755	122,030	225,867	471,506	945,101	
EXPENDITURE SCHEDULE:	PRIOR	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	FUTURE	TOTAL	
Planning and Design	1,683	1,533	1,158	3,920	4,275	12,203	22,587	46,171	83,530	
Construction	15,153	13,797	10,421	35,278	38,480	109,827	203,280	425,335	851,671	
TOTAL EXPENDITURES:	16,836	15,330	11,579	39,198	42,755	122,030	225,867	471,506	945,101	

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		DISTRICT(S) SERVED:	Systemwide	
ESTIMATED ANNUAL OPERATING IMPACT:	Minimal									
REVENUE SCHEDULE:	PRIOR	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	FUTURE	TOTAL	
WASD Revenue Bonds Sold	1,100	0	0	0	0	0	0	0	1,100	
Future WASD Revenue Bonds	0	0	1,785	9,620	15,140	16,340	14,170	9,600	66,655	
TOTAL REVENUE:	1,100	0	1,785	9,620	15,140	16,340	14,170	9,600	67,755	
EXPENDITURE SCHEDULE:	PRIOR	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	FUTURE	TOTAL	
Planning and Design	22	33	89	481	757	817	709	480	3,388	
Construction	414	631	1,696	9,139	14,383	15,523	13,461	9,120	84,367	
TOTAL EXPENDITURES:	436	664	1,785	9,620	15,140	16,340	14,170	9,600	67,755	

Miami-Dade Water and Sewer Department
 2012 - 2018 CAPITAL BUDGET / MULTI - YEAR PLAN
 WASTEWATER PROJECTS
 1018. PEAK FLOW MANAGEMENT FACILITIES
 Commission District(s) Systemwide
 OSBM No. 9653371

VERSION 3

Budget/ Estimate Cost	Prior			Projections										Total	Bond Issue	
	Prior to 2011 - 2012	FY 2011	FY 2012	Total Prior	FY 2012 - 2013	FY 2013 - 2014	FY 2014 - 2015	FY 2015 - 2016	FY 2016 - 2017	FY 2017 - 2018	Future					
945,101,125																
REVENUES																
	0	0	0	0	0	0	0	0	0	0	0	0	0	9,800,000	9,800,000	Future Funding
	0	0	0	0	6,333,267	34,994,818	42,755,507	122,030,144	225,866,738		461,705,688			893,686,162	893,686,162	Future WASD Revenue Bonds
	22,272,130	2,698,246	24,970,376	24,970,376	0	0	0	0	0	0	0	0	0	24,970,376	24,970,376	Plant Expansion Fund - Wastewater
	171,820	0	171,820	171,820	0	0	0	0	0	0	0	0	0	171,820	171,820	WASD Revenue Bonds Sold
	1,472,767	0	1,472,767	1,472,767	15,000,000	0	0	0	0	0	0	0	0	16,472,767	16,472,767	Wastewater Renewal & Replacement Fund
TOTAL	25,916,717	2,698,246	26,614,963	26,614,963	15,000,000	6,333,267	34,994,818	42,755,507	122,030,144	225,866,738	471,505,688			945,101,125	945,101,125	
EXPENDITURES																
	0	0	0	0	0	0	0	0	0	0	0	0	0	9,800,000	9,800,000	Future Funding
	0	0	0	0	6,333,267	34,994,818	42,755,507	122,030,144	225,866,738		461,705,688			893,686,162	893,686,162	Future WASD Revenue Bonds
	10,808,288	4,385,180	15,191,468	15,191,468	330,094	5,245,813	4,203,001	0	0	0	0	0	0	24,970,376	24,970,376	Plant Expansion Fund - Wastewater
	171,820	0	171,820	171,820	0	0	0	0	0	0	0	0	0	171,820	171,820	WASD Revenue Bonds Sold
	1,472,767	0	1,472,767	1,472,767	15,000,000	0	0	0	0	0	0	0	0	16,472,767	16,472,767	Wastewater Renewal & Replacement Fund
TOTAL	12,452,875	4,385,180	16,838,055	16,838,055	15,330,094	11,579,080	39,197,819	42,755,507	122,030,144	225,866,738	471,505,688			945,101,125	945,101,125	

Prepared by Capital Planning and Coordination Section

Page 15 of 32

04-June-12

Miami-Dade Water and Sewer Department
 2012 - 2018 CAPITAL BUDGET / MULTI - YEAR PLAN
 WASTEWATER PROJECTS
 1018. PEAKFLOW MANAGEMENT FACILITIES
 Commission District(s) Systemwide

VERSION 3

	Prior		Projections										Total	Bond Issue				
	Budget/ Estimate Cost	Prior to 2011 - 2012	FY 2011	FY 2012	Total Prior	2012 - 2013					FY							
						FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	2017 - 2018			2017 - 2018	2017 - 2018	2017 - 2018	2017 - 2018
.101710 S PS 8 RELOCATION AND EXPANSION																		
Commission District(s) 9																		
Sub-Project Budget / Estimated 29,751,630																		
REVENUES																		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	470,848	Future WAST Revenue Bonds
	11,582,556	2,698,246	14,280,782	0	0	0	0	0	0	0	0	0	0	0	0	0	14,280,782	Plant Expansion Fund - Wastewater
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,000,000	Wastewater Renewal & Replacement Fund
TOTAL	11,582,556	2,698,246	14,280,782	15,000,000	0	206,713	264,135	264,135	0	0	0	0	0	0	0	0	29,751,630	
EXPENDITURES																		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	470,848	Future WAST Revenue Bonds
	2,343,951	2,157,925	4,501,874	330,094	5,245,813	4,203,001	0	0	0	0	0	0	0	0	0	0	14,280,782	Plant Expansion Fund - Wastewater
	0	0	0	15,000,000	0	0	0	0	0	0	0	0	0	0	0	0	15,000,000	Wastewater Renewal & Replacement Fund
TOTAL	2,343,951	2,157,925	4,501,874	15,330,094	5,245,813	4,409,714	2,64,135	2,64,135	0	0	0	0	0	0	0	0	29,751,630	