Water and Wastewater

95 Wastewater - Compliance Status Study

Project Number: 04-869 - 1

This project involved the preparation of Capacity Assurance, Management, Operation and Maintenance (CMOM) Study of the City's sanitary sewer system to assure compliance with EPA requirements. At the November 9, 2004 meeting, the City Commission authorized Chen and Associates to prepare the study in the amount of $37,200. The study was completed in the third quarter of fiscal year 2005. Department is in the process of implementing the recommendations.

Total Cost: $221,275.00

FY2016	$13,963.00	Prior Expenditures	$207,312.00

Source of Funding

Utility Funds 418	$221,275
Total	$221,275

Managing Department: Utilities (WS or SW)

Phase: Implementation

Project Manager: Maria Loucraft

Progress this month July,2017

The project will be completed by performing a CMOM (Capacity Management Operations and Maintenance) self assessment and correcting any deficiencies. These findings will be incorporated into the next Wastewater System Masterplan. The checklist has been distributed and the first meeting for this effort has been scheduled.

Next Months Goals: Meet to evaluate progress of the self assessment using the EPA tool.

Person Reporting: Maria Loucraft

DesignConsultant: CHEN Design Time Frame: 2009-2010

Design Consultant Start Date: 1/1/2009 Design Consultant Finish Date: 10/1/2010 Design PO: 292078 % Complete

Purchase Order	Company:	Paid to date:	Purchase Order Total
292078	CHEN MOORE & ASSOCIATES INC	$89,865.00	$89,865.00

Construction Contractor: NA Construction Time Frame: NA

Construction Start Date: Construction End Date: Construction PO: % Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process
Quality and Affordable Services	1.0 Safety	1.6. Improve stormwater disposal and treatment process

96 Wastewater - Sanitary Sewer Manhole Rehabilitation

Project Number: 02-828 - 1

This project involves the rehabilitation of deteriorated brick manholes located throughout the City. Rehabilitation consists of covering the interior surfaces with an adhesive, non-permeable material. 58 manholes have already been relined in FY 2015. Citywide there are 4,400 manholes.

Total Cost: $3,703,099.00

FY2016 $549,300.00 Prior Expenditures $2,664,199.00

Source of Funding

Utility Funds 418	$3,703,099
Total	$3,703,099

Managing Department: Utilities (WS or SW)

Phase: Ongoing

Project Manager: Steve Almyda

Progress this month July,2016

Continue inspecting manholes for future rehabilitation. Bid recently closed, continuing working on getting memo finalized and working contract documents.

Next Months Goals: Compiling inspection reports to provide vendor with addition manholes that need lining for FY2016.

Person Reporting: John Sfiropoulos

DesignConsultant: N/A Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: CHAZ EQUIP Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO: 113008

% Complete

Purchase Order	Company:	Paid to date:	Purchase Order Total
113008	ROWLAND INC.	$271,066.68	$271,066.68

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

97 Wastewater - Collection Re-Lining

Project Number: 04-870 - 1

This annual CIP allows for relining sanitary sewer gravity mains throughout the City to minimize infiltration of groundwater. Wherever possible, this is accomplished through trenchless methods. However, from time to time, open cut point repairs are appropriate.

In 2009, 2.29 miles of relining was completed. In 2010 1.97 miles of relining was completed. In 2011 2.1 miles of relining was completed. In 2012 4.70 miles of relining was completed. In 2013 zero miles were completed. In 2014 1.96 miles of relining was completed.

Total Cost: $10,330,498.00

FY2016 $1,524,810.00 Prior Expenditures $5,949,688.00

Source of Funding

Utility Funds 418	$10,330,498
Total	$10,330,498

Managing Department: Utilities (WS or SW)

Phase: Ongoing

Project Manager: Steve Almyda

Progress this month July,2017

The lining bid has closed. Utilities made a recommendation. Per CM the bid is getting tabled for review of the utilities testing process for 60 days. In the mean while we are continually inspecting gravity mains while gathering a list of mains that need to be lined.

Next Months Goals: Provide additional lines for relining to our vendor.

Person Reporting: Steve Almyda

DesignConsultant: N/A Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: INSITUFORM Construction Time Frame: ongoing

Construction Start Date: Construction End Date: Construction PO: 111610

% Complete 20

Purchase Order	Company:	Paid to date:	Purchase Order Total
111610	INSITUFORM TECHNOLOGIES INC	$587,062.90	$587,062.90

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

98 Water Treatment Plant - Maintenance

Project Number: 05-886 - 1

This project includes various maintenance, rehabilitation, and operational enhancements to the existing water treatment plant and membrane plant. Sub projects include, security, chemical feed system repairs and installations, electrical switch gear maintenance and various upgrades.

Total Cost: $5,623,404.00

FY2016 $1,847,443.00 Prior Expenditures $1,775,961.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Ongoing

Project Manager: Phil Hyer

Source of Funding	
Utility Funds 418	$5,623,404
Total	$5,623,404

Progress this month July,2016

New lime softening unit gearbox being manufactured.
Freight elevator (for Lime Building) modernization RFP selection committee received presentations from two companies, made ranking and selection. Commission approved ranking 7/26/16. Service contract in process of being completed.
Acid bulk tank coating bid award made and was approved by Commission 7/26/16.
Requested inspection of ammonia bulk tank integrity and service life. Received/reviewed report and investigated options. Current ammonia vendor provided proposal and lease agreement which was reviewed by Purchasing and sent to Legal for review on May 11, 2016. No response reviewed yet. Staff contacted and scheduled site visit of certified welders for rust rumination and repair proposal of ammonia tanks.
Received update on new rotating assembly for high service pump #6. Factory to ship on 8/26/16.

Next Months Goals:
Execute contract for Freight Elevation Modernization.
Execute contract for acid tank coatings bid award.
Determine best path forward of options regarding ammonia bulk tanks corrosion issues.

Review proposals forfrieght elevator modernization

Person Reporting: John Sfiropoulos

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

99 Reuse Treatment Plant Maintenance

Project Number: 05-887 - 1

Allocated for maintenance, replacement, reconditioning and installation of reuse plant pumps, motors, piping, valves, electrical switch gear and equipment, chemical feed equipment and infrastructure as needed.

Total Cost: $2,920,586.00

				Source of Funding	
FY2016	$885,518.00	Prior Expenditures	$860,068.00	Utility Funds 418	$2,920,586
				Total	$2,920,586

Managing Department: Utilities (WS or SW)

Phase: Ongoing

Project Manager: Phil Hyer

Progress this month July,2016

Worked continued on Asset Management locations and definitions.

Next Months Goals:

Continue set up work and data collection for Asset Management implementation.
Planning needs for additional low pressure pump

Schedule VFD installation for new HPP #2

Person Reporting: Phil Hyer

DesignConsultant: N/A, in-house Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: N/A, in-house Construction Time Frame: NA

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Superior Capacity	2.0 Water	2.1. Expand reuse capacities

100 Reuse Distribution Expansion

Project Number: 06-904 - 1

This annual project continues with the installation of the reuse distribution system in Service Areas 1 through 4, as detailed in the Reuse Water Master Plan, which represents service to over 1,000 acres. The City is looking to enter into an interagency local agreement with Lighthouse Point installing reuse piping. Lighthouse Point will mandate residential, commercial and industrial customers to connect for irrigation (over 500 connections).

Total Cost: $6,782,618.00

FY2016	$1,535,655.00	Prior Expenditures	$4,022,963.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Ongoing

Project Manager: Ben Bray

Source of Funding	
Utility Funds 418	$6,782,618
Total	$6,782,618

Progress this month July,2016

August: Main installation and pressure tests have been completed on NE 27th Terrace, NE 27th Way, NE 28th Terrace and NE 11th Street. Main installation for NE 28th Avenue will begin 9-4-2014.
Service installation has been completed on NE 11th Street, NE 27th Way and NE 28th Terrace. Service installation is currently going on at NE 28th Avenue between NE 11th Street and cul-de-sac.

September: Service installation and main installation has been completed on NE 28th Avenue. All roads have been paved. All reports have been turned over to Engineering Division to submit for approval.
October: Nothing further to report at this time. Still waiting on clearance.
November: Received clearance from the County for the reuse main on the island. Reuse main was put into service.
December-October: Nothing to report for these months.

December 2015: Nothing new to report.

February 2016: Met with City of Lighthouse Point on February 16th to discuss a reuse expansion construction plan.

March 2016: Still waiting on final word from the city of Lighthouse Point.

April 2016: Received confirmation that City of Lighthouse Point will require 100 percent connection.

May 2016: We are still awaiting direction from the City of Lighthouse Point.

June 2016: Mathews is in the process of drawing the plans.

July 2016: No new updates.

Next Months Goals: Plans submitted to Broward County for review and obtaining clearance to put the system on line. Install meters on the island.
January 2016: Hope to receive decision from the City of Lighthouse Point for expansion to the North.

March 2016: Have a construction plan for the City of Lighthouse Point reuse expansion.

April: Put work for Lighthouse Point out for bid.

May 2016: Construction plan and bid

June 2016: Construction plan and bid.

July 2016: Same as last month

August 2016: No new updates.

Person Reporting: Ben Bray

DesignConsultant: N/A Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Superior Capacity	2.0 Water	2.1. Expand reuse capacities

101 Water Meter Replacement

Project Number: 06-908 - 1

American Water Works Association (AWWA) standards require that water meters be tested after 10 years of service. This is an annual program with new meters installed by in-house forces.

This money is now earmarked for the Siemens AMR annual $1.1 million payment for the next 5 years.

Total Cost: $510,329.00

FY2016	$0.00	Prior Expenditures	$510,329.00

Source of Funding

Utility Funds 418	$510,329
Total	$510,329

Managing Department: Utilities (WS or SW)

Phase: Ongoing

Project Manager: Maria Loucraft

Progress this month July,2016

Future meter changes (2017) part of the AMI metering system being performed in conjunction with the Siemens energy saving project. Water system meters were changed out between 2011 and 2014. A plan is being developed to systematically change out these meters before the 10 year requirement. The strategic plan requires that no more than 10% of all meters be due for replacement/testing by 2017. This goal is currently being met.

Next Months Goals: Continue to replace defective/nonfunctioning meters as needed and develop plan for full scale meter change out to continue to meet regulatory standards and City Strategic Plan requirements.

Person Reporting: Maria Loucraft

DesignConsultant: N/A Design Time Frame: N/A

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: NA Construction Time Frame: NA

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

102 Water Main Replacement Program

Project Number: 07-931 - 1

This annual project is to continue the replacement of undersized galvanized water mains as well as unlined cast iron distribution mains throughout the City.

Total Cost: $4,396,169.00

FY2016	$589,035.00	Prior Expenditures	$2,175,134.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Ongoing

Project Manager: Ben Bray

Source of Funding	
Utility Funds 418	$4,396,169
Total	$4,396,169

Progress this month July,2016

August: Water samples on NE 7th Place have passed and the results have been sent to the heath department for approval.
Pressure test and water samples have passed at the Air Park Project and have been turned over to the contractor's engineer per the contract agreement.
Materials have been ordered for the project on NE 1st Avenue between Atlantic Blvd and NE 4th Street.

September: Water main was approved by the Health Dept. for NE 6th Street and NE 7th Place between Riverside Drive and A1A on September 17.
Both mains have been tied in and put into service.
Water main on NE 1st Avenue between NE 1st Street and NE 2nd Street has been installed and passed pressure test. The contractor can now continue with their scope of work. Water main installation is currently ongoing in the 200 - 300 block of NE 1st Avenue.

October: Water main and water services have been installed on NE 1st Avenue from NE 2nd Street to NE 4th Street. All tests have been completed and package has been turned in to Engineering to submit for partial clearance.

November: Received clearance from the Health Department for the new water main at the Air Park. Water main was put into service.
Received clearance from the Health Department for the water main on NE 1st Avenue from NE 1st Street to NE 4th Street.

December: Put water main into service and connected all water services on NE 1st Avenue from NE 1st Street to NE 4th Street.

January: Installed water main on NE 1st Avenue between Atlantic Blvd. and NE 1st Street. Passed pressure test and bacteriological tests. All paper work has been turned over to Engineering.

Started service installation for water main project on NE 7th Street between Harbor Drive and NE 28th Avenue.

February: Completed service installation on NE 7th Street between NE 26th Avenue and NE 28th Avenue and started main installation.

March: Completed main installation, pressure test and densities on NE 7th Street. Turned it over to the Streets Department for paving on March 13th.
Started service installation and water main installation on NE 8th Street between NE 26th Avenue and NE 28th Avenue.

April: Completed service and water main installation on NE 8th Street between NE 26th Ave. and NE 28th Ave. Pressure test, bach-t's, and densities have been completed and turned in for certification.

May: Received main certification for NE 7th and 8th Street between NE 26th Ave and 28th Ave as well as NE 28th Ave between NE 7th Street and NE 8th Street. Crews started connecting the customers to the new services and main.

June: All tie-ins and connections have been made on the NE 7th Street and NE 8th Street water main project. It is now complete.

July: Nothing new to report at this time.

August: Met with City Engineer to replace 2" water main at the 800 block of SE 5th Terrace.

September: Nothing new to report.

October: Contractor rerouted 8" water main at 2720 MLK Blvd. for proposed DOT storm drain catch basin.
November: Nothing new to report.

December: Nothing new to report.

February 2016: Met with Utilities Engineer to plan areas for main replacement. Reviewing plans.

March 2016: Reviewed plans for proposed work and turned them in to Engineering for final draft.

April 2016: Reviewed final draft of plans and submitted to Engineering. Parts and materials list that needed to go out for bid has been submitted to Purchasing Department.

Materials have been ordered and waiting on the construction permit.

June 2016:Received permit and construction is to begin June 29th. Construction notices have been passed out to homeowners.

July: Construction has begun. Service installation, main installation, pressure tests and density tests have been completed on SE 10th Street between SE 6th Terrace and SE 7th Avenue and on NW 8th Court and NW 9th Street between NW 2nd Avenue and NW 3rd Avenue. Final connections will be made after bacteriological tests are completed and approved by Broward County. These streets have been turned over to streets department for paving. Construction has started on SE 1st terrace and SE 9th Court.

Next Months Goals:

Begin assembling a list of dead end streets for 2" main replacements

For January, install water main on NE 1st Avenue from NE 1st Street to Atlantic Blvd.
Also, start water main and service line construction on NE 7th Street and NE 8th Street from NE 26th Avenue to NE 28th Avenue.

Put water main on NE 1st Avenue between Atlantic Blvd. and NE 1st Street into service.
Continue working on new water main and service installation on NE 7th Street & NE 8th Street between Harbor Drive and NE 28th Avenue.

March: Receive certification for NE 1st Avenue between Atlantic Blvd. and NE 1st Street and make final connections.
Continue installation on NE 7th Street and NE 8th Street between NE 26th Avenue and NE 28th Avenue.

Complete water main installation on NE 8th Street and submit to the county for certification.

June: Complete and close out water main project on NE 7th and 8th Street as well as NE 28th Ave.

August: Plan to replace 2" water mains in various cul - de - sacs.

September: Replace water main on SE 5th Terrace and discuss more projects with City Engineer.

October: Replace water main on SE 5th Terrace and discuss more projects with City Engineer.

November: Replace water main on SE 5th terrace and discuss more projects with City Engineer.

December: Replace water main on SE 5th Terrace and discuss more projects with City Engineer.
January 2016: Meet with utilities engineer to discuss CIP's.

March 2016: Obtain permits to start construction.

April 2016: Obtain permits to start construction.

May 2016: Looking to start construction.

June 2016: Start construction.

July 2016: Continue construction

August 2016: Continue construction.

Person Reporting: Ben Bray

DesignConsultant: In house Design Time Frame: ongoing

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: In house Construction Time Frame: ongoing

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts

103 Well Maintenance Program

Project Number: 07-932 - 1

This ongoing project includes various maintenance, rehabilitation, and operational enhancements to the existing well fields and may include routine maintenance and rehabilitation where circumstances dictate. In addition, the project will include well field optimization, remote telemetry, concentrate deep well testing and maintenance and enhanced well field security. Department of Health compliance and the Florida Department of Environmental Protection requires the Utilities Department to test the concentrate injection well for integrity on a yearly basis.

Since this project was created in 2007, the following wells have been rehabilitated:

2007	26, 2, 7, 24, 25
2008	23, 17
2009	26,11,15,3
2010	12, 20, 6
2011	18, 4
2012	3, 5, 6, 7, 12, 14, 16
2013	9, 10, 13, 14
2014	17, 20, 22, 23
2015	11, 19, 21, 24, 26
2016	3, 12, 15

Total Cost: $1,604,396.00

FY2016 $221,458.00 Prior Expenditures $730,138.00

Source of Funding

Utility Funds 418	$1,604,396
Total	$1,604,396

Managing Department: Utilities (WS or SW)

Phase: Ongoing

Project Manager: Phil Hyer

Progress this month July,2016

Requested that AMPS schedule and perform additional chemical injection work on well 21 in conjunction with starting rehabilitation of wells 8 and 2.
Commission approved consultant work authorization for concentrate deep well relining bid spec and construction management services in lieu of next scheduled mechanical integrity testing and informed DEP of this intent. DEP responded and is in agreement with this approach. This project will be a separate CIP project requested in 2017 CIP budget.

Next Months Goals: Plan next service and testing on switchgear and breaker in wellfield.
Schedule flow meter installation.

Person Reporting: Phil Hyer

DesignConsultant: MWH

Design Time Frame: Mechanical Integrity Testing Concentrate Deep well

Design Consultant Start Date: 12/2/2013

Design Consultant Finish Date:

Design PO: 142313

% Complete 10

Purchase Order	Company:	Paid to date:	Purchase Order Total
142313	MWH AMERICAS, INC.	$71,554.00	$71,554.00

Construction Contractor: AMPS

Construction Time Frame: NA

Construction Start Date:

Construction End Date:

Construction PO: 141583

% Complete 40

Purchase Order	Company:	Paid to date:	Purchase Order Total
141583	AQUIFER MAINTENANCE &	$75,000.00	$75,000.00

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

104 Water Treatment Plant - Membrane Element Replacement

Project Number: 08-952 - 1

This ongoing project consists of replacing the membrane elements (filters) when needed. The membrane elements are used to purify water to make it potable and requires replacement every 5 years. All filters were replaced in FY 2016. Funding will be budgeted over a multi-year period to provide for full replacement.

Total Cost: $1,952,500.00

FY2016	$1,202,500.00	Prior Expenditures	$0.00

Source of Funding

Utility Funds 418	$1,952,500
Total	$1,952,500

Managing Department: Engineering, Utilities (WS or SW)

Phase: Proposed

Project Manager: Phil Hyer

Progress this month July,2016

New pilot plant parts currently on order. Met with staff to decide on piping, sample points, valve and instrumentation layout.
City received two Letters of Interest on membrane replacement and consultant has requested and received additional information from one company and is evaluating.

Next Months Goals:
Receive parts and continue construction of new membrane pilot plant.
Determine procurement path for purchase of instrumentation for pilot plant.
Finalize evaluation of LOI submittals.

Person Reporting: Phil Hyer

DesignConsultant: To Be Determined Design Time Frame: 2014

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame: 2015

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

105 Wastewater - Lift Station Rehabilitation

Project Number: 08-968 - 1

This annual CIP allows for upgrading and rehabilitating wastewater lift stations as prioritized by the Utilities Department. A lift station rehab consists of replacement of all major components, including plumbing, mechanical and electrical.

Total Cost: $7,810,922.00

FY2016	$3,158,596.00	Prior Expenditures	$2,212,326.00

Source of Funding

Utility Funds 418	$7,810,922
Total	$7,810,922

Managing Department: Engineering, Utilities (WS or SW)

Phase: Overall CIP

Project Manager: John Sfiropoulos

Progress this month July,2016

TRIO has completed rehab of Lift Station 143 and Lift Station No's 84, 106, 107, 111, 61 and 86 to follow.

Next Months Goals: LS 84 rehabilitation in progress.

Person Reporting: John Sfiropoulos

DesignConsultant: N/A Design Time Frame: Ongoing

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Trio Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

106 Water Conservation Program

Project Number: 10-988 - 1

A Water Conservation Program is mandated as one of the limiting conditions of our Consumptive Use Permit. The program will consist of water saving features that will lower our water consumption.

In FY2010, the City replaced shower heads and kitchen and bathroom faucet aerators for 1,816 residences saving about 56 MG/Y. Funds are being used to fund a two day leak detection survey annually. The City provided water conservation kits to two classrooms through the Water wise program. In Fiscal Year 2011, 200 restaurant sprayers were replaced saving about 11 Million Gallons/year. Water Saving Devices were given away at the City Health Fair and in 2013 a water conservation workshop was held for residents. In FY 2013 the retrofits provided to customers resulted a savings of almost 6.9 Million Gallons of water annually. Program components also include annual leak detection surveys, irrigation surveys for large water users and outreach events (Homeowner Association Meetings, Schools & community functions). The City participates in the Broward County Mobile Irrigation program which conducts irrigation audits for large water users. The program effectiveness is demonstrated by the dropping water usage rates per person. In FY15 the conservation program saved 14.8 Million gallons of water (not including the reuse savings).

Total Cost: $381,660.00

FY2016	$123,893.00	Prior Expenditures	$157,767.00

Source of Funding

Utility Funds 418	$381,660
Total	$381,660

Managing Department: Utilities (WS or SW)

Phase: Ongoing

Project Manager: Maria Loucraft

Progress this month July,2016

Prepared for the annual health fair event and workshops. Facilitated a "Know the Flow" water training event for staff.

Next Months Goals: Continue Condominium and multifamily residential outreach. Continue to search for additional Broward County Mobile Irrigation/Natures cape participants.

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame: Summer 2010

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame: N/A

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts

107 Water Treatment Plant - Install High Service Pump Motors

Project Number: 11-157 - 1

Furnish and install one 480 volt Adjustable Frequency Drive (AFDs) for #1 high service pump, and 4 AFDs for high service pumps 2 & 3. Furnish and install new premium efficiency, inverter duty motors to be served by new AFDs
Modify existing control system and graphical control interface to accommodate new high service pump control algorithm – integrate and commission revised system controls
Accomplish electrical engineering design and update electrical system coordination study & arc flash study
Integrate and commission new AFDs & motors.

Total Cost: $1,177,722.00

FY2016	$228,858.00	Prior Expenditures	$948,864.00

Source of Funding

Utility Funds 418	$1,177,722
Total	$1,177,722

Managing Department: Public Works, Utilities (WS or SW)

Phase: Construction

Project Manager: John Sfiropoulos

Progress this month July,2016

Meeting with Siemens held June 15, 2016 on outstanding punchlist items and partial retainage release. Based on the preliminary M&V report and taking all projects collectively, the determination has been made that the combined energy and operational savings for completed projects has covered our debt service.

Next Months Goals: Complete the following punchlist items: additional permanent 480 V feeders, revise pump control strategy, motor and control O&M's, controls training, safety handrail on mezzanine, as-built drawings, and M&V testing.

Person Reporting: Phil Hyer

DesignConsultant: Siemens/CH2MHill Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: 8/6/2012 Design PO: % Complete 100

Construction Contractor: Edwards Electric Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO: % Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

108 Water Treatment Plant - Electrical System Rehabilitation

Project Number: 11-194 - 1

Renovation of the old electrical system in the Water Treatment Plant. The renovation includes all 5kv high service pumps and starters, all electrical switches, gears and main electrical distribution systems. These issues were identified for the first two phases of the Electrical Master Plan for the high service pump 1 - 4 building. Phases III & IV will continue the renovation for the high service 5-6 building. Phase V of the renovation will include the transfer pump building and three remaining electrical buildings. These systems are over 20-40 years old and have had increased failures.

Total Cost: $8,429,006.00

FY2016 $1,496,557.00 Prior Expenditures $732,449.00

Source of Funding

Utility Funds 418	$8,429,006
Total	$8,429,006

Managing Department: Engineering, Utilities

Phase: Design

Project Manager: John Sfiropoulos

Progress this month July,2016

Project substantially complete. Contractor investigating vibration issue on new backwash pump motor, floor coating issues and working on completion of punchlist items

Next Months Goals: Resolve new backwash pump vibration issue, floor coating issues and finish up punch list items.

Person Reporting: Phil Hyer

DesignConsultant: Carollo Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 0

Construction Contractor: Florida Design Contractor Construction Time Frame: 10-months

Construction Start Date: Construction End Date: Construction PO:

11/23/2015 9/23/2016 % Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services 1.0 Safety 1.4. Ensure safe drinking water standards

109 Wastewater - General Electrical Improvements at all Lift Stations

Project Number: 13-205 - 1

Improve electrical systems at all lift stations. This is a recommendation from the 2011 Wastewater master plan and the City Facilities Assessment Plan to stop corrosive gases from ruining the electrical components and bring these stations up to current Electrical Code Standards. This project differs from general lift station rehab. in that it specifically targets deficiencies in the electrical wiring.

Total Cost: $326,700.00

FY2016	$326,700.00	Prior Expenditures	$0.00

Source of Funding

Utility Funds 418	$326,700
Total	$326,700

Managing Department: Utilities (WS or SW)

Phase: Design

Project Manager: John Sfiropoulos

Progress this month July,2016

Nothing new to report.

Next Months Goals: Review existing proposals for Lift Station No's 10, 32, 60, 42, 43, 73 and 112 from Trio for Commission meeting.

Person Reporting: John Sfiropoulos

DesignConsultant: Piggyback Contract with TRIO and Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 20

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

110 Water - A1A Water Main Replacement

Project Number: 13-206 - 1

SR A1A water main replacement between Dow St and Riverside Drive as the water main is reaching the end of it's design life.

12/2015 - Met with FDOT regarding pavement replacement requirements.
01/2016 - 75% Plan Completion.
02/2016 - 100% Plan Completion.

Total Cost: $604,000.00

FY2016	$559,149.00	Prior Expenditures	$44,851.00

Source of Funding

Utility Funds 418	$604,000
Total	$604,000

Managing Department: Engineering

Phase: Design

Project Manager: Brad Wolak

Progress this month July,2016

07/2016 We received an RFI from Broward Co Health department re water main permitting and have returned responses. City front-end documents have been prepared and project will be bid as soon as the permit comes in

06/2016 Review comments received from both FDOT and Broward Health Dept. Formal responses will be returned shortly. Once permits are in hand, City will commence bid cycle.

05/2016 The project is currently awaiting permit issuance by FDOT and Broward Health Dept.

Broward DEP permits have been prepared and signed off by City Engineer. Regarding FDOT requests to install a layer of geogrid for earth stabilization under pavement as well as the installation of an additional 3" of paving thickness above what the City typically requires (as well as what the existing condition is), Engineer and City agreed to submit FDOT permit without these items due to perceived lack of value and technical merit. Currently awaiting FDOT response.

Next Months Goals: Permitting activities relating to Broward County DEP and FDOT. Start preparation of bid package

Person Reporting: Brad Wolak

DesignConsultant: Mathews Consulting Design Time Frame: 2015-2016

Design Consultant Start Date: 7/1/2015 Design Consultant Finish Date: 1/31/2016 Design PO: 153076 % Complete 90

Purchase Order	Company:	Paid to date:	Purchase Order Total
153076	MATHEWS CONSULTING INC	$91,296.34	$99,966.00

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts

111 Water Treatment Plant Security/Facility Access Study

Project Number: 14-233 - 1

To investigate the best approach to secure various areas of the water treatment plant facility using the state of art security technologies. Some of these areas are ingress and egress of the plant site, the High Service Pump rooms, the electrical rooms, the Operations and Chemical rooms and the training and laboratory rooms.

Total Cost: $240,000.00

FY2016	$240,000.00	Prior Expenditures	$0.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Implementation

Project Manager: John Sfiropoulos

Source of Funding

Utility Funds 418	$240,000
Total	$240,000

Progress this month July,2016

Security access identified for staff and currently being entered into the software system. Installation of interior gate and raceway completed.

Next Months Goals: Activation and checking for issues.

Person Reporting: Maria Loucraft

DesignConsultant: Holb-Sierra Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 100

Construction Contractor: Holb-Sierra Construction Time Frame: 90-days

Construction Start Date: Construction End Date: Construction PO: 153470

12/7/2015 3/7/2016 % Complete 0

Purchase Order	Company:	Paid to date:	Purchase Order Total
153470	HOLB SIERRA CORP	$212,836.72	$238,999.00

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

112 Water Master Plan Update 2014

Project Number: 14-234 - 1

Current Water System Master Plan update was completed in 2009. The City's Comprehensive Plan requires five year updates. The Water System Master plan includes an assessment of distribution system and raw water facility condition, and incorporates current documents used to evaluate the adequacy of the water system to meet required level of service and to maintain compliance with water quality and regulatory requirements.

Total Cost: $133,300.00

FY2016	$49,554.00	Prior Expenditures	$8,746.00

Managing Department: Utilities (WS or SW)

Phase: Design/Study

Project Manager: Maria Loucraft

Source of Funding

Utility Funds 418	$133,300
Total	$133,300

Progress this month July,2016

Staff prioritized projects and submitted information to contractor in order to finalize plan

Next Months Goals: Review new draft and completed project

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 20

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population
Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts

113 Water Treatment Plant Facility - Painting

Project Number: 15-256 - 1

The water treatment plant facility has not been painted for over 25 years: There is superficial cracking allowing moisture to get into the concrete that can cause deterioration of the concrete and the reinforced iron rebar. The cracks in the facility must be repaired and sealed, then a top coat of uniformed color coating applied to improve the structural and aesthetic appearance of the facility.

Total Cost: $1,662,000.00

FY2016	$446,000.00	Prior Expenditures	$196,000.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Implementation

Project Manager: Phil Hyer

Source of Funding	
Utility Funds 418	$1,662,000
Total	$1,662,000

Progress this month July,2016

On-hold. - Facility Hardening Project in CIP needs to be completed first or duplication of some building exterior coating would occur. Scope of Work for Hardening Study has been submitted, received Commission approval, draft received and being reviewed. Staff met with consultant and prioritizing needs.

RFPs bid award for painting of ground storage tanks was approved by Comission 7/26/16. Staff to create service contract for this work.

Next Months Goals: Complete and execute service contract for GST painting bid award.

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 20

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Great Places	2.0 Tourism	2.3. Enhance the range and quality of beach activity options, including beach related events
Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

114 Water Treatment System Corrosion Study

Project Number: 15-257 - 1

The Florida Administrative Code requires optimized corrosion control for all Large Water Suppliers. The last study was done before the construction of the membrane plant. This project will also provide a mechanism for corrosion control inhibitor testing.

Obtain scope of work from contractor, construct corrosion test racks, test current state and then potential corrosion inhibitors for comparison

Total Cost: $80,000.00

FY2016	$80,000.00	Prior Expenditures	$0.00	**Source of Funding**	
				Utility Funds 418	$80,000
				Total	$80,000

Managing Department: Utilities (WS or SW)

Phase: Design/Study

Project Manager: Phil Hyer

Progress this month July,2016

Discussed with consultant and waiting on information on where to purchase pre-made rack.

Next Months Goals: Continue work on feed point (s) and rack placement and plan of action. Investigate sources for pre-made corrosion racks.

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

115 Water Treatment Plant - Membrane Concentrate Connection

Project Number: 15-258 - 1

Design and install a pipe line to the Broward County Wastewater Force main for emergency disposal of membrane plant concentrate water during times when the concentrate injection well is down for maintenance and/or testing.

Total Cost: $343,000.00

				Source of Funding	
FY2016	$335,299.00	Prior Expenditures	$7,701.00	Utility Funds 418	$343,000
				Total	$343,000

Managing Department: Utilities (WS or SW)

Phase: Implementation

Project Manager: Phil Hyer

Progress this month July,2016

Received Technical Memorandum from Consultant and reviewed. Consultant's estimated costs for all options exceeded budgeted amount. Discussed with consultant feasibility of sending concentrate to Reuse plant for disposal. Asked consultant to proceed with this project so that this option may be available during concentrate well re-lining project.

Next Months Goals: Continue work with consultant on providing DEP a blending study information.

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

116 Utility Asset Management Development and Implementation

Project Number: 15-259 - 1

This project is the development and implementation of a utility asset management program. The software, consulting/design for this program will enhance the life of the utility assets, identify future CRP/CIP projects, assist with compliance and increase reliability.

1. Hire Asset Management/Project Specialist to oversee the program and provide continual staff training as well as perform system administration functions. 2. Procure software licenses and development/implementation contractor. 3. Undergo implementation and piloting at the Reuse Plant. Undergo implementation at the Water Treatment Plant.

Total Cost: $525,000.00

				Source of Funding	
FY2016	$493,979.00	Prior Expenditures	$31,021.00	Utility Funds 418	$525,000
				Total	$525,000

Managing Department: Utilities (WS or SW)

Phase: Implementation

Project Manager: Maria Loucraft

Progress this month July,2016

Entered work plans and continued to load data. Project at Reuse Plant at 75% completion at the end of June, 2016.

Next Months Goals: Continue testing system and entering work plans

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

117 Wastewater - Gravity Collection System Expansion

Project Number: 15-260 - 1

The City's Gravity Wastewater System currently supplies almost all areas of the City of Pompano Beach. This project will extend the system to those remaining residential, commercial, and industrial areas. The largest being the area south of NW 15 Street and north of Atlantic Boulevard bisected by MLK Jr. Boulevard, bordered on the east by I-95 and on the west by the railroad tracks/NW 15 Avenue/N Andrews Avenue, composed entirely of industrial property. Providing wastewater service to these remaining areas will improve both the quality of life for the consumer, further empower economic development and reduce discharges into the surrounding water bodies. Several of the unserved areas are located in the vicinity of the Pompano Canal- an impaired water body. Reducing discharges in the area of this water body is a regulatory requirement.

Total Cost: $770,000.00

				Source of Funding	
FY2016	$163,102.00	Prior Expenditures	$6,898.00	Utility Funds 418	$770,000
				Total	$770,000

Managing Department: Utilities (WS or SW)

Phase: Implementation

Project Manager: John Sfiropoulos

Progress this month July,2016

Weekley has completed construction of the new wastewater gravity system.

Next Months Goals: Testing and certification of new system.

Person Reporting: John Sfiropoulos

DesignConsultant: Mathew's Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO: 153257

% Complete 100

Purchase Order	Company:	Paid to date:	Purchase Order Total
153257	MATHEWS CONSULTING INC	$46,628.54	$49,994.00

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

118 Wastewater Manhole Installations In Liberty Park Area

Project Number: 15-261 - 1

Installation of manholes in Liberty Park area to better service the gravity wastewater system.

Total Cost: $5,000.00

FY2016	$5,000.00	Prior Expenditures	$0.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Implementation

Project Manager: Alessandra Delfico

Source of Funding

Utility Funds 418	$5,000
Total	$5,000

Progress this month July,2016

Design is 100% complete. Regulatory permitting in process.
8 bids were received March 17th.
Recommendation to negotiate with the lowest responsive bidder was approved at the May 10th Commission meeting. The agreement has been executed.

Next Months Goals: Have project permitted and start construction.

Person Reporting: Alessandra Delfico

DesignConsultant: Mathew's Consulting Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO: 153256

% Complete 100

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

119 Water Plant Lime Softening Process Rehabilitation

Project Number: 16-287 - 1

The Water Treatment Plant has two (2) distinct treatment processes, lime softening and membrane. A recent evaluation conducted by City Consultant, Carollo Engineers, compared either expanding the membrane treatment process, decommissioning the lime softening, or rehabilitating the lime treatment plant for a 20 year life cycle. It was determined that based on the capital costs and operational costs for membrane expansion, that rehabilitating the lime softening treatment was more cost effective.

Total Cost: $606,000.00

				Source of Funding	
FY2016	$300,000.00	Prior Expenditures	$0.00	Utility Funds 418	$606,000
				Total	$606,000

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Phil Hyer

Progress this month July,2016

Working with Engineering and Purchasing to determine if a RFQ for design/build service would be an efficient method to facilitate this project and other upcoming rehabilitation work needed.

Next Months Goals: Determine best path to proceed.

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

120 Utility Hardening of Water Inter-Connections

Project Number: 16-288 - 1

Project will install meters and backflow protection between the City of Pompano Beach Water System and other Utilities at the following locations: Broward County 2A* 12" 1 MGD at 2517 NE 22nd Avenue, Lighthouse Point; Fort Lauderdale* 12" 1 MGD near SW 15th Street & Powerline Road; Margate* 10" 3100 MLK Boulevard, Pompano Beach, Margate* 12" 3300 W. Atlantic Boulevard, Pompano Beach AIA/6000 N. Ocean Boulevard, Lauderdale by the Sea. The meters provide for water usage determination and recovery of cost should emergency conditions require the opening of the connections.

Total Cost: $509,400.00

				Source of Funding	
FY2016	$509,400.00	Prior Expenditures	$0.00	Utility Funds 418	$509,400
				Total	$509,400

Managing Department: Engineering, Utilities

Phase: Design/Study

Project Manager: Ben Bray

Progress this month July,2016

Examining potential sites

Next Months Goals: Request scope of work from a consulting engineer firm.

Person Reporting: Alessandra Delfico

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

121 Hurricane Hardening For Water Plant Facilities

Project Number: 16-289 - 1

Per the Facilities Assessment, subsequent CDM study (Building Structural Review for Hurricane Hardening Grant) that was previously conducted, and current Florida Building Code wind load requirements, it has been determined that some of the Water Plant facility still requires structural modifications and hurricane rated impact windows and doors for adequate hurricane hardening of the Water Treatment Plant.

Total Cost: $475,000.00

FY2016	$475,000.00	Prior Expenditures	$0.00

Managing Department: Utilities (WS or SW)

Phase: Design/Study

Project Manager: Phil Hyer

Source of Funding	
Utility Funds 418	$475,000
Total	$475,000

Progress this month July,2016

Staff met to prioritize work to conform to budget and requested consultant to provide scope for design of improvements for all of Filter Building.

Next Months Goals: Receive and review consultant scope of work proposal.

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Great Places	2.0 Tourism	2.13. Improve aesthetic appearance of City facilities
Superior Capacity	1.0 Energy	1.2. Retro-fit existing facilities as appropriate

122 Reuse Plant Facility Painting

Project Number: 16-290 - 1

This project is for the painting of the Reuse Plant building structures. These structures include the main building, chemical building, north and south filters and two storage tanks onsite. These structures have not been repainted since their installation in 1988 and 2001 and their coatings have met and exceeded their service life.

Total Cost: $510,000.00

FY2016	$255,000.00	Prior Expenditures	$0.00

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Phil Hyer

Source of Funding

Utility Funds 418	$510,000
Total	$510,000

Progress this month July,2016

Received City Manager approval for work and executed contract. Entered requisition for PO.

Next Months Goals: Receive PO. Schedule work.

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Great Places	2.0 Tourism	2.13. Improve aesthetic appearance of City facilities

123 Wastewater Master Plan 2016 Update

Project Number: 16-299 - 1

Preparation of 2016 wastewater master plan Update

Total Cost: $0.00

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Utilities (WS or SW)

Phase: Implementation

Project Manager: Maria Loucraft

Progress this month July,2016

Capacity Management, Operations and Maintenance (CMOM) assessment underway by City staff for inclusion in the Masterplan.

Next Months Goals: provide CMOM checklist to contractor

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

124 Water Meter Replacement Program

Project Number: 17-305 - 1

The AMI project was completed in 2012. As part of that project, Siemens has replaced all meters greater than 5 years old and updated meters that were less than 5 years old as of March 2011. This project resumes the meter replacement program in 2019. Once resumed, the program will replace meters that were not replaced during the AMI project. A schedule will eventually be enacted to replace 10% of the meters per year to ensure proper accounting for compliance and sales. Resumption of the program will ensure that we continue to have low volumes of non-revenue (lost) water. The American Water Works Association (AWWA) standards require that water meters be tested after 10 years of service.

Total Cost: $816,000.00

FY2016	$0.00	Prior Expenditures	$0.00	**Source of Funding**	
				Utility Funds 418	$816,000
				Total	$816,000

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Ben Bray

Progress this month July,2016

New meters were installed in 2012. We will start replacement of the oldest meter bodies in 2017 .

Next Months Goals: None.

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

125 Water Plant Concentrate Deep Well Re-Lining

Project Number: 17-306 - 1

In order to operate the membrane water treatment plant, the concentrate (reject waste stream) must be disposed of via deep well injection which is a necessary component of the membrane treatment operation. The existing deep well located on the Water Treatment Plant's site receives the concentrate for disposal. The Department of Environmental Protection (DEP) mandates mechanical integrity testing (MIT) of this deep well as required by our Deep Well Permit with the State. The most recent MIT in 2014 indicated a need for replacement or relining of this deep well. It has been determined by the City's Consultant (MWH) that relining would be the most cost-effective solution.

Total Cost: $1,120,000.00

FY2016	$0.00	Prior Expenditures	$0.00	**Source of Funding**	
				Utility Funds 418	$1,120,000
				Total	$1,120,000

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: To Be Determined

Progress this month July,2016

None. Funding available in FY 2017.

Next Months Goals:

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

126 Water Treatment Plant- Recarbonation Feed System Rehabilitation

Project Number: 17-307 - 1

The carbon dioxide chemical system is in need of replacement (1984). This is a critical chemical in our treatment process (pH) and compliance with DEP's 4 Log Treatment Certification.

Total Cost: $0.00

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: To Be Determined

Progress this month July,2016

Next Months Goals:

Person Reporting:

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 0

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

127 Water Treatment Plant - Concentrate Treatment Study

Project Number: 18-WS- - 1

Study the available technologies capable of treating the membrane plant concentrate water to drinking water standards as an alternative drinking water supply.

Total Cost: $100,000.00

				Source of Funding	
FY2016	$0.00	Prior Expenditures	$0.00	Utility Funds 418	$100,000
				Total	$100,000

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Phil Hyer

Progress this month July,2016

No current work on this project. Funding not available till 2018.

Next Months Goals:

Person Reporting: Phil Hyer

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 20

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete 20

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

128 Water Supply Plan Update 2018

Project Number: 18-WS- - 1

This project consists of preparing the Water Supply Plan. This plan is required to be updated every five years and approved by the South Florida Water Management District and the State. This plan must be adopted, along with the relevant Comprehensive Plan Elements, within 18 months of the South Florida Water Management District approving the Lower East Coast Water Supply Plan.

Draft plan prepared and Comprehensive Plan elements revised for submission to City Commission.
Plan and Comprehensive Plan elements approved by the South Florida Water Management District and State.
Required revisions made and Final Plan submitted to City Commission

Total Cost:

Source of Funding

FY2016	$0.00	Prior Expenditures	$0.00

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Maria Loucraft

Progress this month July,2016

Next Months Goals:

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 0

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

129 Water Master Plan Update 2018

Project Number: 18-WS- - 1

The Water Master Plan update is required every five years in order to evaluate the water distribution system and source water wells condition, current operations and future demands. This update is required per the City Comprehensive Plan and provides assessments needed for the Water Supply Plan, as well as planning for capital improvement projects.

Prepare Water Master Plan

Total Cost:

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Maria Loucraft

Progress this month July,2016

Next Months Goals:

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 0

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

130 Reuse Master Plan Update 2018

Project Number: 18-WS- - 1

Current Reuse Master Plan update was completed in 2014. The data is required for the state mandated Water Supply Plan due in FY 2018.

The Reuse Master Plan Update was completed in fiscal year 2013

Total Cost: $0.00

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Proposed

Project Manager: Maria Loucraft

Progress this month July,2016

None. Funding for the update will be available in FY 2018

Next Months Goals:

Person Reporting: Maria Loucraft

DesignConsultant: Mathews Engineering Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO: 142368

% Complete 100

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population
Superior Capacity	2.0 Water	2.1. Expand reuse capacities

131 Water Treatment Plant Transfer Station Rehabilitation

Project Number: 18-WS- - 1

Rehabilitation of the transfer station switchgear, adding VFDs to the pumps and piping.

Total Cost: $0.00

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: To Be Determined

Progress this month July,2016

No funding available yet.

Next Months Goals:

Person Reporting:

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 0

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

132 Water Treatment Plant - Ammonia Feed System Rehab

Project Number: 18-WS- - 1

The Ammonia Feed System is beyond its useful life (40 years) and is due for replacement. The bulk storage tanks will be replaced and the feed system will be modernized to provide greater control over the feed process.

Total Cost: $0.00

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: To Be Determined

Progress this month July,2016

Next Months Goals:

Person Reporting:

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 0

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards

133 Water Plant Filter Level Control Modifications

Project Number: 20-WS- - 1

City Consultant McCafferty Brinson conducted an evaluation and determined that our existing water filter level control potentially presents a regulatory compliance and operational vulnerability. City staff have previously experienced issues with the existing level control valve operation. This proposed project, per Consultant's recommendations, will permanently alleviate this vulnerability and maintain proper filter levels at all times by installing a fixed weir in a new flow box.

Total Cost: $250,000.00

				Source of Funding	
FY2016	$0.00	Prior Expenditures	$0.00	Utility Funds 418	$250,000
				Total	$250,000

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: To Be Determined

Progress this month July,2016

None. Funding available in FY 2019.

Next Months Goals: Preparing and RFP for design and build to repair and upgrade lime softening treatment plant sand filters

Person Reporting:

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.4. Ensure safe drinking water standards
Quality and Affordable Services	1.0 Safety	1.7. Ensure adequate water resources for current and future population

134 Saltwater Intrusion

Project Number: 20-WS- - 1

This project will evaluate the feasibility of using shallow injection wells for saltwater intrusion protection. It is anticipated that climate change, along with groundwater use will encourage the encroachment of ocean saltwater into the groundwater system. The City, with its reuse and conservation programs, as well as moving a portion of groundwater withdrawals to the west, is the only City in Southeast Florida to move the Saltwater line back toward the ocean. This project will evaluate the effectiveness of using shallow injection wells as another tool to further mitigate saltwater intrusion.

Development of feasibility document with design specifications.

Total Cost: $100,000.00

				Source of Funding	
FY2016	$0.00	Prior Expenditures	$0.00	Utility Funds 418	$100,000
				Total	$100,000

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Maria Loucraft

Progress this month July,2016

None. Funding available in FY 2018.

Next Months Goals:

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative:

Superior Capacity	2.0 Water	2.2. Expand conservation efforts and other water efficiency efforts

135 Wastewater Master Plan Update 2021

Project Number: 21-WS- - 1

The Wastewater Master Plan update is required every five years to evaluate future system demand and necessary upgrades to facilitate planning efforts in order to meet customer levels of service and regulatory requirements.

Prepare plan

Total Cost: $0.00

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Utilities (WS or SW)

Phase: Proposed

Project Manager: Maria Loucraft

Progress this month July,2016

Next Months Goals:

Person Reporting: Maria Loucraft

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete 0

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete 0

Supports Strategic Plan Initiative:

Quality and Affordable Services	1.0 Safety	1.5. Improve wastewater disposal and treatment process

136 Wastewater- Lyons Park Neighborhood

Project Number: 21-WS- - 1

In conjunction with the stormwater project the water and wastewater systems need to be upgraded. Some of the wastewater gravity mains are in the back of the residences of Lyons Park which is not good for maintenance. The water services also need to be replaced.

Total Cost: $0.00

Source of Funding

FY2016 $0.00 Prior Expenditures $0.00

Managing Department: Engineering, Utilities (WS or SW)

Phase: Proposed

Project Manager: Alessandra Delfico

Progress this month July,2016

Water and wastewater lines under design. 100 % design due in November 2016.

Next Months Goals: Review draft plans and return with comments and suggestions.

Person Reporting: Alessandra Delfico

DesignConsultant: Design Time Frame:

Design Consultant Start Date: Design Consultant Finish Date: Design PO:

% Complete

Construction Contractor: Construction Time Frame:

Construction Start Date: Construction End Date: Construction PO:

% Complete

Supports Strategic Plan Initiative: