

## WATER MAIN REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 9,923,127

**Project Description**  
 This project will replace the asbestos cement and thin-walled PVC pipe in the Mims water distribution system and includes changing over the water service connections from the existing pipes to the new pipes. This project will take place in five phases. May be procured from state or other cooperative agreement.

**Service Impact**  
 The Mims water distribution system piping includes asbestos-cement and thin-walled PVC water pipes that were installed in the 1960's. They are brittle and have a history of breaking.



**Project Milestones**  
 Mims Water  
 Construction complete September 2024

**Start Date:** 10/01/15      **End Date:** 09/30/24

**Project Manager:** TBD

**Funded Program:** 6980111

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 4,329,127	\$ 1,300,000	\$ 1,200,000	\$ 2,200,000	\$ 844,000	\$ 50,000	\$ -	\$ 9,923,127
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 4,329,127</b>	<b>\$ 1,300,000</b>	<b>\$ 1,200,000</b>	<b>\$ 2,200,000</b>	<b>\$ 844,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ 9,923,127</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 4,329,127	\$ -	\$ 1,300,000	\$ 1,200,000	\$ 2,200,000	\$ 844,000	\$ 50,000	\$ 9,923,127
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 4,329,127</b>	<b>\$ -</b>	<b>\$ 1,300,000</b>	<b>\$ 1,200,000</b>	<b>\$ 2,200,000</b>	<b>\$ 844,000</b>	<b>\$ 50,000</b>	<b>\$ 9,923,127</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Mims 5 NW-RR-16 19 E

## WELL FACILITY REPLACEMENTS (1 of 3)

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,200,715

**Project Description**

Install replacement wells. May be procured from state or other cooperative agreement.



**Project Milestones**

Mims Water

Construction complete September 2019

**Service Impact**

The Mims Water Treatment Plant needs to have replacement wells installed to ensure a continued safe water supply.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6983105

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 600,715	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,200,715
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 600,715</b>	<b>\$ 600,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,200,715</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 497,715	\$ 103,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600,715
Construction	\$ -	\$ -	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 497,715</b>	<b>\$ 103,000</b>	<b>\$ 600,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,200,715</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Mims 13 NW-RR-26 19 E

## LIME SLUDGE HANDLING SYSTEM

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 643,960

**Project Description**

Liquid lime slurry is a by-product of the Mims Water Treatment Plant. The lime slurry is currently hauled by contractor to the Orlando Utilities power plant. Modify the lime disposal system for liquid disposal. This project will eliminate the existing dryer. May be procured from state or other cooperative agreement.

**Service Impact**

Changing the method of disposal to a more economical one.



**Project Milestones**

Mims Water

Construction complete September 2019

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538128

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 43,960	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 643,960
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 43,960</b>	<b>\$ 600,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 643,960</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 20,256	\$ 23,704	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,960
Construction	\$ -	\$ -	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 20,256</b>	<b>\$ 23,704</b>	<b>\$ 600,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 643,960</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Mims 37 NS-RR-25 19 E

## REPLACE VFD'S, PLC'S & FLOW METER ON HIGH SERVICE PUMPS (4)

**Department:** Utility Services Department  
**Program:** Water/Wastewater  
**Project Total:** \$ 478,898  
**Project Description**  
 Replace Variable Frequency Drive (VFD's), Programmable Logic Controller (PLC's) and flow meter. Demolish existing.



**Project Milestones**  
 Mims Water  
 Construction complete September 2019

**Service Impact**  
 Currently there are multiple failures on the equipment and parts are no longer available. Efficiency will vastly improve after replacement.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 514671

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 28,898	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 478,898
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 28,898</b>	<b>\$ 450,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 478,898</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 28,898	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,898
Construction	\$ -	\$ -	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 28,898</b>	<b>\$ -</b>	<b>\$ 450,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 478,898</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Mims 44 NW-RR-48 19 E

## MIMS WATER CO2 TANK

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 450,047

**Project Description**

Replace the carbon dioxide tank at the Mims water plant with a high efficiency unit.



**Project Milestones**

Mims Water

Construction complete September 2019

**Service Impact**

Maintain the ability to recarbonate the finished water to control pH. Operating costs will be reduced.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540114

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 50,047	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 450,047
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 50,047</b>	<b>\$ 400,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 450,047</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 12,547	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,047
Construction	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 12,547</b>	<b>\$ 37,500</b>	<b>\$ 400,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 450,047</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Mims 46 NW-RR-24 19 E

## REPLACE HIGH SERVICE PUMPS AND MOTORS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 215,000

**Project Description**

Replacing the high service pumps and motors at the Mims Water Plant.



**Project Milestones**

Mims Water

Complete project September 2019

**Service Impact**

The pumps and motors have reached the end of their useful life and are no longer efficient. This will also save a considerable amount of energy.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6984111

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 15,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 15,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 215,000</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000
Construction	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 15,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 215,000</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Mims 47 NW-RR-51 19 NE

## TREATMENT PLANT DRIVEWAY

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 81,531

**Project Description**

Construct paved roadway from paved road to plant entrance and from north side of plant to RIBS. Anticipated to be donated by the developer. Funding is needed for County incurred supporting expenses.

**Service Impact**

The existing access way to the treatment plant is very rough and full of potholes. The entire dirt road needs to be paved to provide stabilized access for staff and visitors.



**Project Milestones**

North Brevard Wastewater  
Construction complete September 2019

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6570108

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 31,531	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81,531
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 31,531</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 81,531</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 16,531	\$ 15,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 81,531
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 16,531</b>	<b>\$ 15,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 81,531</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

N Brev 21 NS-RR-40 19 E

## WASTEWATER FILTER GALLERY VALVES REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 435,036

**Project Description**

Replace the filter valves. May be procured from state or other cooperative agreement.



**Project Milestones**

North Brevard Wastewater  
Construction complete September 2019

**Service Impact**

These valves were installed in 1987 and need to be replaced. The old style pneumatic valves will be replaced with electric valves.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538131

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 88,636	\$ 346,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 435,036
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 88,636</b>	<b>\$ 346,400</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 435,036</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 88,636	\$ 5,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94,036
Construction	\$ -	\$ -	\$ 341,000	\$ -	\$ -	\$ -	\$ -	\$ 341,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 88,636</b>	<b>\$ 5,400</b>	<b>\$ 341,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 435,036</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

N Brev 36 NS-RR-49 19 E



## NORTH BREVARD WWTP DUMPING BED

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 350,000

**Project Description**

Construct a dumping bed at North Brevard Wastewater Treatment Plant (NBWWTP) for dewatering of vacuum truck debris. May be procured from state or other cooperative agreement.



**Project Milestones**

North Brevard Wastewater  
Construction complete September 2019

**Service Impact**

Dumping bed at NBWWTP will save time and fuel by eliminating the need to drive 25 miles to use the bed at the Sykes Creek Wastewater Treatment Plant.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6984108

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

N Brev 37 NS-20 19 E

## EXTEND N10 GRAVITY SEWER AND DEMOLISH LIFT STATION N04

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 394,185

**Project Description**  
Demolish Lift Station N04 and reroute gravity sewer to Lift Station N10. Obtain easements as necessary. May be procured from state or other cooperative agreement.

**Service Impact**  
During review of the existing system in the area, it was identified that a lift station could be eliminated by the extension of the gravity sanitary sewer.



**Project Milestones**  
North Brevard Wastewater  
Construction complete September 2019

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6981110

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 49,185	\$ 345,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 394,185
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 49,185</b>	<b>\$ 345,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 394,185</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 44,185	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,185
Construction	\$ -	\$ -	\$ 345,000	\$ -	\$ -	\$ -	\$ -	\$ 345,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 44,185</b>	<b>\$ 5,000</b>	<b>\$ 345,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 394,185</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

N Brev 38 NS-21 19 E

## N BREVARD WASTEWATER CHLORINE STORAGE STRUCTURE

**Department:** Utility Services Department  
**Program:** Water/Wastewater  
**Project Total:** \$ 160,000

**Project Description**

Replace the existing chlorine tank canopy cover structure due to severe corrosion on the steel beam frame and damage to the structure from hurricane Matthew and Irma. The replacement structure will be made of a hardened, corrosion resistant structure.



**Project Milestones**

North Brevard Wastewater  
 Facilities Project  
 Construction complete September 2019

**Service Impact**

This building has been in disrepair and was damaged completely by Hurricane Matthew and Irma. This will cover the chlorine pumps and equipment from the elements.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538140

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 160,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 160,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ 160,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ 160,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

N Brev 39 NS-RR-56 19 NE

## NORTH BREVARD INFLOW AND INFILTRATION REDUCTION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,824,536

**Project Description**

Relining of gravity lines and grouting of laterals in this service area. May be procured from state or other cooperative agreement.



**Project Milestones**

North Brevard Wastewater  
Ongoing project

**Service Impact**

Rehabilitation reduces Inflow and Infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

**Start Date:** 10/01/15      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6981109

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 574,536	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ -	\$ 1,824,536
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 574,536</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ -</b>	<b>\$ 1,824,536</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 574,536	\$ -	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,824,536
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 574,536</b>	<b>\$ -</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 1,824,536</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

N Brev 1NS NS-RR-51 19 NE

## NORTH BREVARD LIFT STATIONS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,615,000

**Project Description**

Replacement or Rehabilitation of aged, deteriorating lift stations N01, N07, N08, and N13 in upcoming fiscal years or others as conditions necessitate.



**Project Milestones**

North Brevard Wastewater  
Ongoing project

**Service Impact**

Rehabilitation or replacement of a lift station will make it more economical and will reduce repairs and maintenance costs. It will also minimize overflows and add safety features such as a safety grate for the wet well.

**Start Date:** 10/01/15      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6300128

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 1,035,000	\$ 400,000	\$ 180,000	\$ -	\$ -	\$ -	\$ 1,615,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 1,035,000	\$ 400,000	\$ 180,000	\$ -	\$ -	\$ -	\$ 1,615,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 207,000	\$ 80,000	\$ 36,200	\$ -	\$ -	\$ 323,200
Construction	\$ -	\$ -	\$ 828,000	\$ 320,000	\$ 143,800	\$ -	\$ -	\$ 1,291,800
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 1,035,000	\$ 400,000	\$ 180,000	\$ -	\$ -	\$ 1,615,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

## FORCE MAIN J01 REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 259,000

**Project Description**

Replace cast-iron force main installed in 1963 with PVC pipe. Cast iron pipe is corroded and subject to breaking.



**Project Milestones**

Port St John Wastewater

Construction complete September 2020

**Service Impact**

This replacement will improve pumping capacity and reduce system failures due to a weak pipe.

**Start Date:** 01/10/18      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6985105

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services		\$ 50,000	\$ 209,000	\$ -	\$ -	\$ -	\$ -	\$ 259,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 50,000	\$ 209,000	\$ -	\$ -	\$ -	\$ -	\$ 259,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Construction	\$ -	\$ -	\$ -	\$ 209,000	\$ -	\$ -	\$ -	\$ 209,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 50,000	\$ 209,000	\$ -	\$ -	\$ -	\$ 259,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PSJ 9 PJ-RR-15 19 E

## PSJ PAVE PLANT ACCESS ROAD

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 298,505

**Project Description**

Pave plant access road. May be procured from state or other cooperative agreement.



**Project Milestones**

Port St John Wastewater

Construction complete September 2019

**Service Impact**

The access road has numerous potholes and has deteriorated to the point where it needs to be rebuilt.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6570106

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 33,505	\$ 265,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 298,505
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 33,505</b>	<b>\$ 265,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 298,505</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 12,505	\$ 21,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,505
Construction	\$ -	\$ -	\$ 265,000	\$ -	\$ -	\$ -	\$ -	\$ 265,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 12,505</b>	<b>\$ 21,000</b>	<b>\$ 265,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 298,505</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

PSJ 16 PJ-RR-25 19 E

## SLUDGE DEWATERING SYSTEM

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 642,000

**Project Description**

Install a mechanical sludge dewatering system to replace the air drying beds. May be procured from state or other cooperative agreement.



**Project Milestones**

Port St John Wastewater  
Construction complete September 2019

**Service Impact**

Provide more effective sludge dewatering. Current system using air drying beds is too dependent on weather conditions. Eliminates the need to haul liquid sludge to Sykes Wastewater Treatment Plant during inclement weather.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540112

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 107,000	\$ 535,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 642,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 107,000</b>	<b>\$ 535,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 642,000</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 107,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 107,000
Construction	\$ -	\$ -	\$ 535,000	\$ -	\$ -	\$ -	\$ -	\$ 535,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 107,000</b>	<b>\$ -</b>	<b>\$ 535,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 642,000</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

PSJ 17 PJ-30 19 E



## CONSTRUCT CONCRETE BLOCK BUILDING FOR COMPRESSORS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 115,291

**Project Description**

Construct a building for the compressors for the Port St John Wastewater Treatment Plant.



**Project Milestones**

Port St John Wastewater  
Facilities Project  
Construction complete September 2019

**Service Impact**

This building will greatly improve the lifespan of the compressors from the outside elements

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6501415

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 105,291	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,291
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 105,291</b>	<b>\$ 10,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 115,291</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ 105,291	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 115,291
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 105,291</b>	<b>\$ 10,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 115,291</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

PSJ 49 NW-RR-53 19 NE

**PT ST JOHN INFLOW AND INFILTRATION REDUCTION**

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 767,997

**Project Description**

Relining of gravity lines and lining of manholes in this service area. May be procured from state or other cooperative agreement.



**Project Milestones**

Port St John Wastewater  
Ongoing Project

**Service Impact**

Rehabilitation reduces Inflow and Infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

**Start Date:** 10/01/15      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6981101

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 17,997	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ -	\$ 767,997
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 17,997</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ -</b>	<b>\$ 767,997</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 17,997	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 767,997
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 17,997</b>	<b>\$ -</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 767,997</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

PSJ 2NS PJ-RR-26 19 NE

## CHLORINE STORAGE AND FEEDER SYSTEM

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 100,000

**Project Description**

Replace existing equipment storage and pipe rack covered structure in Sykes Creek Maintenance yard



**Project Milestones**

Port St John Wastewater

Construction complete September 2019

**Service Impact**

Existing structure is in poor condition. New structure will allow us to keep lawn maintenance equipment out of shop, per fire code.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538432

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PSJ 50 PJ-RR-27 19 NE

## PORT ST JOHN LIFT STATIONS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 390,000

**Project Description**

Replacement or Rehabilitation of aged, deteriorating lift station J02, J03, J05 and J06 in upcoming fiscal years or others as conditions necessitate.

**Service Impact**

Rehabilitation or replacement of a lift station will make it more economical and will reduce repairs and maintenance costs. It will also minimize overflows and add safety features such as a safety grate for the wet well.



**Project Milestones**

Port St John Wastewater

Ongoing project

**Start Date:**

**End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6300129

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 390,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 390,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ 390,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ 390,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

## S BEACH WWTP HIGH SERVICE PUMPS (VERTICAL TURBINE)

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 809,286

**Project Description**

Replace high service pumps at the South Beach Wastewater Treatment Plant. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2019

**Service Impact**

The high service pumps are reaching the end of their useful life and will need to be replaced. They are critical in the successful operation of the reclaimed water system.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540307

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 64,696	\$ 744,590	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 809,286
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 64,696</b>	<b>\$ 744,590</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 809,286</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 39,696	\$ 25,000	\$ 33,274	\$ -	\$ -	\$ -	\$ -	\$ 97,970
Construction	\$ -	\$ -	\$ 711,316	\$ -	\$ -	\$ -	\$ -	\$ 711,316
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 39,696</b>	<b>\$ 25,000</b>	<b>\$ 744,590</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 809,286</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 36 SB-RR-130 19 E

## TREATMENT PROCESS IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,013,934

**Project Description**

Treatment process rehabilitation. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2019

**Service Impact**

The treatment plant has reached the point where it needs extensive rehabilitation in order to maintain treatment effective and reliability.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540308

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 473,934	\$ 540,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,013,934
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 473,934</b>	<b>\$ 540,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,013,934</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 171,555	\$ 26,425	\$ -	\$ 26,908	\$ -	\$ -	\$ -	\$ 224,888
Construction	\$ 49,046	\$ 200,000	\$ 540,000	\$ -	\$ -	\$ -	\$ -	\$ 789,046
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 220,601</b>	<b>\$ 226,425</b>	<b>\$ 540,000</b>	<b>\$ 26,908</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,013,934</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 40 SB-RR-108C 19 E

## REHABILITATE DISCHARGE PONDS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 92,675

**Project Description**

Rehabilitate effluent ponds. Rehabilitation to include, but not limited to, regrading, sodding and other stabilization as necessary.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2019

**Service Impact**

This project would allow the effluent ponds to be regraded to provide longer detention times during discharges.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6551301

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 22,675	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 92,675
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 22,675</b>	<b>\$ 70,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 92,675</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 10,650	\$ 12,025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,675
Construction	\$ -	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 10,650</b>	<b>\$ 12,025</b>	<b>\$ 70,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 92,675</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 54 SB-RR-149 19 E

## S BEACH WWTP MANUAL BAR SCREEN REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 50,000

**Project Description**

Replace manual bar screen. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2019

**Service Impact**

The manual bar screen is used to screen the influent when the mechanical bar screen is out-of-service for maintenance.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 513875

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Bch 55 SB-RR-150 19 NE



## S BEACH WWTP MECHANICAL BAR SCREEN REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,135,654

**Project Description**

Replace the mechanical bar screen. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2019

**Service Impact**

The existing mechanical bar screen was last rehabilitated in 2006 and needs to be replaced. The headworks structure housing the bar screen requires modification.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6572300

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 115,654	\$ 1,020,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,135,654
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 115,654</b>	<b>\$ 1,020,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,135,654</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 105,654	\$ 10,000	\$ 69,418	\$ -	\$ -	\$ -	\$ -	\$ 185,072
Construction	\$ -	\$ -	\$ 950,582	\$ -	\$ -	\$ -	\$ -	\$ 950,582
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 105,654</b>	<b>\$ 10,000</b>	<b>\$ 1,020,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,135,654</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 61 SB-RR-156 19 E

## GRIT WASHER AND CONVEYOR REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 100,000

**Project Description**

Replace grit washer with grit removal equipment at the South Beach Wastewater Treatment Plant. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2019

**Service Impact**

The existing grit system is a old, pieced together system that is not efficient in removing grit. The replacement system would be much more efficient and effective.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540309

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

## REPLACE DIGESTER CENTRIFUGAL BLOWERS & AERATION BASIN CENTRIFUGAL BLOWERS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,222,682

**Project Description**

Replace blowers and associated controls. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater

Construction complete September 2019

**Service Impact**

These blowers are reaching the end of their useful life and need to be replaced. These blowers are essential for the operation for the plant.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6984313

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 22,682	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,222,682
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 22,682</b>	<b>\$ 1,200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,222,682</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 12,682	\$ 10,000	\$ 15,885	\$ -	\$ -	\$ -	\$ -	\$ 38,567
Construction	\$ -	\$ -	\$ 1,184,115	\$ -	\$ -	\$ -	\$ -	\$ 1,184,115
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 12,682</b>	<b>\$ 10,000</b>	<b>\$ 1,200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,222,682</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 82 SB-RR-177C 19 E

## SOUTH BEACH WWTP SCADA UPGRADES

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 300,000

**Project Description**

Replace supervisory control and data acquisition units (SCADA) at the South Beach Wastewater Treatment Plant. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Ongoing Project

**Service Impact**

Plant SCADA is inadequate for today's standards. Parts are obsolete and difficult to obtain for repairs. Many processes are not on SCADA and existing system does not provide complete control to the operators. System to be reworked and necessary equipment added to the SCADA system.

**Start Date:** 10/01/15      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6351303

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 75,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 300,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 75,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 300,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 75,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 75,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Bch 102 SB-RR-197 19 NE

## EQUALIZATION BASIN VALVES, PIPING AND TANK REPAIRS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 206,570

**Project Description**

Equalization Basin float control valves and tank repairs. This will include new self sustaining float control and tank repairs. May be procured from state or other cooperative agreement.

**Service Impact**

These float control valves are non-functional and have outlasted their life expectancy.



**Project Milestones**

South Beach Wastewater  
Project complete September 2019

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540407

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 16,570	\$ 190,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 206,570
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 16,570</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 206,570</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 6,570	\$ 10,000	\$ 26,187	\$ -	\$ -	\$ -	\$ -	\$ 42,757
Construction	\$ -	\$ -	\$ 163,813	\$ -	\$ -	\$ -	\$ -	\$ 163,813
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 6,570</b>	<b>\$ 10,000</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 206,570</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 105 SB-RR-191 19 E

## NORTH RIVERSIDE FORCE MAIN IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 8,406,871

**Project Description**

Replace existing 24" PVC force main with 30" ductile iron. Install surge tanks at lift stations B19 and B20 to prevent water hammering. Department has requested State Revolving Loan (SRF) for construction.

**Service Impact**

Eliminate potential pipe failure. Upsized piping will better manage the volume of wastewater flow in this area. Water hammer stresses the force mains causing breaks and service interruptions.



**Project Milestones**

South Beach Wastewater  
Construction completion April 2020

**Start Date:** 10/01/15      **End Date:** 04/30/20

**Project Manager:** TBD

**Funded Program:** 6300235

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 516,871	\$ 370,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 886,871
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ 4,800,000	\$ 2,720,000	\$ -	\$ -	\$ -	\$ -	\$ 7,520,000
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 516,871</b>	<b>\$ 5,170,000</b>	<b>\$ 2,720,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,406,871</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 146,871	\$ 370,000	\$ 370,000	\$ -	\$ -	\$ -	\$ -	\$ 886,871
Construction	\$ -	\$ 4,800,000	\$ -	\$ 2,720,000	\$ -	\$ -	\$ -	\$ 7,520,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 146,871</b>	<b>\$ 5,170,000</b>	<b>\$ 370,000</b>	<b>\$ 2,720,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,406,871</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

## FORCE MAIN S12 REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 71,236

**Project Description**  
Replace 450 LF of force main.



**Project Milestones**

South Beach Wastewater  
Construction completion September 2019

**Service Impact**

The pipe has corroded and needs frequent repair.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6985310

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 11,236	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 71,236
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 11,236</b>	<b>\$ 60,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 71,236</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 11,236	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,236
Construction	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 11,236</b>	<b>\$ 60,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 71,236</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 112 SB-RR-205 19 E

## SOUTH BEACH INFLOW AND INFILTRATION REDUCTION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 10,353,457

**Project Description**

Relining of gravity lines and service laterals in the South Beach service area.



**Project Milestones**

South Beach Wastewater  
Ongoing Project

**Service Impact**

Rehabilitation reduces inflow and infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

**Start Date:** 10/01/15      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6981306

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 8,103,457	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 250,000	\$ -	\$ 10,353,457
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 8,103,457</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 250,000</b>	<b>\$ -</b>	<b>\$ 10,353,457</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 4,667,234	\$ 3,436,223	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 250,000	\$ 10,353,457
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 4,667,234</b>	<b>\$ 3,436,223</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 250,000</b>	<b>\$ 10,353,457</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

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## SOUTH BEACH LIFT STATIONS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 10,792,501

**Project Description**

Replacement or Rehabilitation of aged, deteriorating lift stations S04, S09, B10, S19, S05, S08, S27 and B01 in upcoming fiscal years, or others as conditions necessitate.



**Project Milestones**

South Beach Wastewater  
Ongoing project

**Service Impact**

Rehabilitation or replacement of a lift station will make it more economical and will reduce repairs and maintenance costs. It will also minimize overflows and add safety features such as a safety grate for the wet well.

**Start Date:** 10/01/15      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6300415

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 500,000	\$ 2,862,501	\$ 1,605,000	\$ 1,840,000	\$ 3,400,000	\$ 585,000	\$ -	\$ 10,792,501
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 500,000</b>	<b>\$ 2,862,501</b>	<b>\$ 1,605,000</b>	<b>\$ 1,840,000</b>	<b>\$ 3,400,000</b>	<b>\$ 585,000</b>	<b>\$ -</b>	<b>\$ 10,792,501</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Construction	\$ -	\$ -	\$ 2,862,501	\$ 1,605,000	\$ 1,840,000	\$ 3,400,000	\$ 585,000	\$ 10,292,501
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 2,862,501</b>	<b>\$ 1,605,000</b>	<b>\$ 1,840,000</b>	<b>\$ 3,400,000</b>	<b>\$ 585,000</b>	<b>\$ 10,792,501</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Bch 19 E

## SEPTAGE AND GREASE PRETREATMENT FACILITY CONSTRUCTION WITH RELOCATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 2,822,450

**Project Description**

The recently constructed facility is first of its kind and modifications are needed to make it fully functional.



**Project Milestones**

South Central Wastewater

Construction complete September 2019

**Service Impact**

Modifications will improve function of facility.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6984404

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 2,047,450	\$ 725,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 2,822,450
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 2,047,450</b>	<b>\$ 725,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,822,450</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 259,356	\$ 40,000	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 324,356
Construction	\$ 1,748,094	\$ -	\$ 700,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 2,498,094
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 2,007,450</b>	<b>\$ 40,000</b>	<b>\$ 725,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,822,450</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Cent 2 RS-53 19

## TREATMENT PLANT EXPANSION TO 12.0 MGD FP

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 43,205,211

**Project Description**

Project will add a third treatment train and support buildings to accommodate growth in Viera/Suntree. May be procured from state or other cooperative agreement.

**Service Impact**

Existing treatment plant is nearing its operating capacity. With growth in this service area the design and construction of the expansion of the treatment plant needs to be done. Includes electrical power supply upgrade and multi-purpose building.



**Project Milestones**

South Central Wastewater

Construction complete April 2019

**Start Date:** 10/01/15    **End Date:** 04/30/19

**Project Manager:** TBD

**Funded Program:** 6984405

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Permit/Fees	\$ 16,751,473	\$ 468,455	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,219,928
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ 620,000	\$ 12,365,283	\$ 13,000,000	\$ -	\$ -	\$ -	\$ -	\$ 25,985,283
<b>Total Revenue</b>	<b>\$ 17,371,473</b>	<b>\$ 12,833,738</b>	<b>\$ 13,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 43,205,211</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 4,399,889	\$ 468,455	\$ 520,000	\$ -	\$ -	\$ -	\$ -	\$ 5,388,344
Construction	\$ 12,351,584	\$ 12,365,283	\$ 13,000,000	\$ -	\$ -	\$ -	\$ -	\$ 37,716,867
Other	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
<b>Total Expense</b>	<b>\$ 16,751,473</b>	<b>\$ 12,833,738</b>	<b>\$ 13,620,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 43,205,211</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Cent 4.1 RS-EX-28 19 E

## REHABILITATE BELT PRESS, CONTROLS & REPLACE VFD'S

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 800,000

**Project Description**

Rehabilitate the belt press, controls and replace Variable Frequency Drives (VFD's). May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Construction complete September 2019

**Service Impact**

The existing control panel and VFD's are 25 years old and in need of replacement or rehabilitation.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538420

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 800,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 800,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ 800,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ 800,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 4.5 RS-RR-130 19 NE

## SOD POND IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 428,912

**Project Description**

This project would install a pumping system to move water between ponds or return water to the wetlands or plant. This project also repairs the eroded berms of the ponds. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Road & Bridge Project  
Construction complete September 2019

**Service Impact**

These ponds were constructed 20 years ago and the banks and pump supports have deteriorated to the point where rehabilitation is required.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538418

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 253,912	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 428,912
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 253,912</b>	<b>\$ 175,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 428,912</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600
Construction	\$ 253,312	\$ -	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ 428,312
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 253,912</b>	<b>\$ -</b>	<b>\$ 175,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 428,912</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Cent 4.6 RS-RR-79 19 E

## BAYTREE PRESSURE SUSTAINING VALVE REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 115,000

**Project Description**

Replace pressure sustaining valve. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Installation complete September 2019

**Service Impact**

The installation of this pressure sustaining valve will allow remote operation of the valve from the treatment plant. This will provide for more efficient distribution of reclaimed water.

**Start Date:** 1/0/1900      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538414

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ 115,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ 115,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 9 RS-RR-69 19 NE

## SUNTREE BOOSTER STATION REHABILITATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 560,000

**Project Description**

Rehabilitate the Suntree booster station. Replace vertical turbine pumps and controls and rehabilitate storage tank. May be procured from state or other cooperative agreement.

**Service Impact**

This booster station has reached the end of its useful life and needs to be rehabilitated to extend its service life.



**Project Milestones**

South Central Wastewater  
Construction complete 2019

**Start Date:**                      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540405

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 560,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 560,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ -</b>	<b>\$ 560,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 560,000</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000
Construction	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 560,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 560,000</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Cent 40 RS-RR-98 19 E

## S CENTRAL WWTP CLARIFIER REHABILITATION (X4)

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 2,400,000

**Project Description**

Replace the entire mechanism within the four clarifiers. Over time these mechanisms need to be replaced due to severe corrosion from the wastewater.



**Project Milestones**

South Central Wastewater  
Construction complete September 2022

**Service Impact**

This will ensure proper operation of the wastewater plant and keep the plant in Department of Environmental Protection compliance.

**Start Date:** 10/01/18      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:** 6538423

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ -	\$ -	\$ 2,400,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ -	\$ -	\$ 2,400,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ -	\$ 2,400,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ -	\$ 2,400,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 69 RS-RR-155 19 NE



## SOUTH CENTRAL SCADA UPGRADES

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 252,772

**Project Description**

Replace Legacy Remote Terminal Units (RTU'S). May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Construction complete September 2020

**Service Impact**

These components are obsolete and have reached the end of their useful life as repair parts are increasingly difficult to obtain.

**Start Date:** 10/01/18      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6351411

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 7,772	\$ 145,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 252,772
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 7,772</b>	<b>\$ 145,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 252,772</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 7,772	\$ 145,000	\$ -	\$ -	\$ -	\$ -	\$ 152,772
Construction	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 7,772</b>	<b>\$ 145,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 252,772</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Cent 77 RS-RR-138 19 NE

## WETLANDS EFFLUENT ELECTRICAL

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 75,000

**Project Description**

Run FPL utility power to the wetlands to provide electricity for pumping. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Construction complete September 2019

**Service Impact**

The existing power to the wetlands is supplied by auxiliary generator power operated by Utility Services. It is more expensive to produce and less reliable than FPL utility power.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538429

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 81 RS-RR-143 19 E

## REUSE SYSTEM OPTIMIZATION IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 900,000

**Project Description**

Identify the locations for the reclaimed water system isolation valves for more effective distribution of reclaimed water. May be procured from state or other cooperative agreement.

**Service Impact**

There are an insufficient number of valves on the reclaimed water system to control the flow of reclaimed water to the customers. Uncontrolled usage diminishes the effectiveness of the entire system.



**Project Milestones**

South Central Wastewater  
Construction complete September 2019

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540409

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 180,000	\$ -	\$ -	\$ -	\$ -	\$ 180,000
Construction	\$ -	\$ -	\$ 720,000	\$ -	\$ -	\$ -	\$ -	\$ 720,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ 900,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 89 RS-RR-149 19 E

## SOUTH CENTRAL INFLOW AND INFILTRATION REDUCTION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 2,035,829

**Project Description**

Relining of gravity lines and lining of manholes in this service area. May be procured from state or other cooperative agreement.

**Service Impact**

Rehabilitation reduces Inflow and Infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.



**Project Milestones**

South Central Wastewater  
Ongoing Project

**Start Date:**                          **End Date:** ONGOING

**Project Manager:**                      TBD

**Funded Program:**                      6981206

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 735,829	\$ 200,000	\$ 200,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ -	\$ 2,035,829
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 735,829</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 300,000</b>	<b>\$ 300,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ 2,035,829</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 735,829	\$ -	\$ 200,000	\$ 200,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 2,035,829
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 735,829</b>	<b>\$ -</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 300,000</b>	<b>\$ 300,000</b>	<b>\$ 300,000</b>	<b>\$ 2,035,829</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Cent 4NS RS-RR-48 19 NE

## BNR AERATION/MIXING IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 250,000

**Project Description**

Addition of submersible radial pumping turbine and shaft with a partition wall on the floor of the aeration tank for the mixing requirements of design of all mechanisms working together to meet the goals of mixing and oxygen rates, Biological Nutrient Removal (BNR).

**Service Impact**

With the addition of the new 6 million gallon a day (MGD) being constructed at South Central the ability to bring down the current plant to complete this work will be possible. The work is necessitated to stay in compliance with Department of Environmental Protection (DEP) for nutrient removal.



**Project Milestones**

South Central Wastewater

Construction complete September 2019

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540417

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 99 RS-RR-159 19

## TELEMETRY MODERNIZATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,283,423

**Project Description**

Upgrade telemetry at lift stations. May be procured from state or other cooperative agreement.



**Project Milestones**

Countywide Project  
Ongoing project

**Service Impact**

This project will upgrade the lift station telemetry which will allow control of the lift station pumps.

**Start Date:** 10/01/15      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 513870

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 783,423	\$ 150,000	\$ 150,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 1,283,423
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 783,423</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,283,423</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 765,567	\$ 17,856	\$ 150,000	\$ 150,000	\$ 100,000	\$ 100,000	\$ -	\$ 1,283,423
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 765,567</b>	<b>\$ 17,856</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ 1,283,423</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Non-Spec 12NS RS-RR-50 19 NE

## SOUTH CENTRAL LIFT STATIONS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 8,541,250

**Project Description**

Replacement or Rehabilitation of aged, deteriorating lift stations T04, T11, T14, T16, T17, T24, T25, T28, T29, T38 and T45 in upcoming fiscal years or others as conditions necessitate.



**Project Milestones**

South Central Wastewater  
Ongoing project

**Service Impact**

Rehabilitation or replacement of lift stations will make it more economical and will reduce repairs and maintenance costs. It will also minimize overflows and add safety features such as a safety grate for the wet well.

**Start Date:** End Date: ONGOING

**Project Manager:** TBD

**Funded Program:** 6300414

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 59,400	\$ 1,604,250	\$ 1,662,000	\$ 2,902,600	\$ 2,313,000	\$ -	\$ -	\$ 8,541,250
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 59,400</b>	<b>\$ 1,604,250</b>	<b>\$ 1,662,000</b>	<b>\$ 2,902,600</b>	<b>\$ 2,313,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,541,250</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 59,400	\$ 427,770	\$ 332,400	\$ 533,000	\$ 462,600	\$ -	\$ 1,815,170
Construction	\$ -	\$ -	\$ 1,176,480	\$ 1,329,600	\$ 2,369,600	\$ 1,850,400	\$ -	\$ 6,726,080
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 59,400</b>	<b>\$ 1,604,250</b>	<b>\$ 1,662,000</b>	<b>\$ 2,902,600</b>	<b>\$ 2,313,000</b>	<b>\$ -</b>	<b>\$ 8,541,250</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

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## SOUTH CENTRAL VALVE REPLACEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 308,525

**Project Description**

This project consists of replacing valves in the wastewater collection and reuse system that have become inoperable or no longer seal off the flow of water. May be procured from state or other cooperative agreement.

**Service Impact**

The installation of usable valves will allow the flow to be shut off during repairs. This protects the workers and in the case of the reuse system, allows more of the system to remain in operation during repairs.



**Project Milestones**

South Central Wastewater  
Ongoing Project

**Start Date:** 10/01/19      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 513873

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 8,525	\$ 200,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 308,525
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 8,525</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 308,525</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 8,525	\$ -	\$ 200,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 308,525
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 8,525</b>	<b>\$ -</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 308,525</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

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## IRCC PRESSURE SUSTAINING VALVE REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 78,180

**Project Description**

Replace pressure sustaining valve. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater

Installation complete September 2020

**Service Impact**

The installation of this pressure sustaining valve will allow remote operation of the valve from the treatment plant. This will provide for more efficient distribution of reclaimed water.

**Start Date:** 10/01/17      **End Date:** 09/30/20

**Project Manager:** Brian Sorensen

**Funded Program:** 6538415

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 953	\$ 77,227	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78,180
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond/Referendum	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 953</b>	<b>\$ 77,227</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 78,180</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ 953	\$ 77,227	\$ -	\$ -	\$ -	\$ -	\$ 78,180
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 953</b>	<b>\$ 77,227</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 78,180</b>

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

SC 14 RS-RR-74 19 NE

**SYKES CREEK WASTEWATER TREATMENT PLANT RAS/WAS PUMPS REPLACEMENT**

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,025,000

**Project Description**

Replace all three pumps and roof doors. The pumps are too work out to rehabilitate.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Service Impact**

This will improve the overall process due to failing pumps and will help eliminate system failure. This will also help keep the plant in Department of Environmental Protection compliance.

**Start Date:**                      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6540203

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 25,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,025,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 25,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,025,000</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Construction	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 25,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,025,000</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

## SYKES CREEK WASTEWATER TREATMENT PLANT IMPROVEMENTS (HEADWORKS)

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 5,159,223

**Project Description**

Replacement of failed headworks structures and equipment, and construction of Vactor Truck Dumping Bed. May be procured from state or other cooperative agreement.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2020

**Service Impact**

A headworks is needed at the plant to remove grit and inorganic material that damages the equipment. Vac Truck residuals need to be dried before they can be accepted at the plant. The headworks structure was installed in 1987 and deteriorated to the point where the building had to be demolished. This current project builds a new headworks structure using modern equipment.

**Start Date:**                      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6540203

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 159,223	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 5,159,223
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 159,223</b>	<b>\$ 2,500,000</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,159,223</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 159,223	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,223
Construction	\$ -	\$ -	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ 5,000,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 159,223</b>	<b>\$ -</b>	<b>\$ 2,500,000</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,159,223</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Sykes 22 MI-RR-104C 19 E

## FORCE MAIN M13 REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 154,480

**Project Description**

Remove and replace approx. 900 linear feet of 4" asbestos cement force main from LS M-13 to sanitary manhole 003. May be procured from state or other cooperative agreement.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Service Impact**

The existing asbestos cement force main is brittle and has a history of breaking.

**Start Date:** 10/01/16      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6985207

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 29,480	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 154,480
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 29,480</b>	<b>\$ 125,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 154,480</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 14,480	\$ 15,000	\$ 14,570	\$ -	\$ -	\$ -	\$ -	\$ 44,050
Construction	\$ -	\$ -	\$ 110,430	\$ -	\$ -	\$ -	\$ -	\$ 110,430
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 14,480</b>	<b>\$ 15,000</b>	<b>\$ 125,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 154,480</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Sykes 28 MI-RR-110 19 E

## CLARIFIER REHABILITATION (4)

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 960,860

**Project Description**

Clarifier structures and drive rehabilitation. May be procured from state or other cooperative agreement.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2021

**Service Impact**

The existing clarifiers are over 20 years old. All clarifiers need to be rehabilitated to continue proper operation.

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6540204

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 120,860	\$ 280,000	\$ 280,000	\$ 280,000	\$ -	\$ -	\$ -	\$ 960,860
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 120,860</b>	<b>\$ 280,000</b>	<b>\$ 280,000</b>	<b>\$ 280,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 960,860</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 120,860	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,860
Construction	\$ -	\$ -	\$ 280,000	\$ 280,000	\$ 280,000	\$ -	\$ -	\$ 840,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ -</b>	<b>\$ 120,860</b>	<b>\$ 280,000</b>	<b>\$ 280,000</b>	<b>\$ 280,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 960,860</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Sykes 35 MI-RR-118 19 NE

## FORCE MAIN C09 REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 186,214

**Project Description**

Remove and replace 4" AC FM from LS C-09 to C-10. May be procured from state or other cooperative agreement.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Service Impact**

This force main was constructed in 1966, has reached the end of its useful life and is in need of replacement. It is constructed of asbestos cement pipe which is an older material that is no longer used. This material becomes fragile, subject to leaks and is difficult and dangerous to repair.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6985211

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 16,245	\$ 169,969	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,214
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ 16,245	\$ 169,969	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,214

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 16,245	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 26,245
Construction	\$ -	\$ 159,969	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,969
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ 176,214	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 186,214

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 40 MI-RR-121 19 E

## SYKES CREEK PARKWAY FORCE MAIN REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,182,027

**Project Description**

Replacement of approximately 3500 linear feet of 14 inch diameter sewer force main on Sykes Creek Parkway. This project was identified in the Utilities Services Division Infrastructure Asset Evaluation conducted in 2013 and recommended for replacement in FY 2021. However, the pipe has failed and required emergency repair twice within the last two years and Staff recommends moving the project up to reduce future failures. May be procured from state or other cooperative agreement.

**Service Impact**

Replacement of force main will eliminate sewer spills due to pipe failure in this area and the potential associated impacts to Sykes Creek.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Start Date:** **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6985217

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 72,027	\$ 1,110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,182,027
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 72,027</b>	<b>\$ 1,110,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,182,027</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 64,027	\$ 8,000	\$ 16,750	\$ -	\$ -	\$ -	\$ -	\$ 88,777
Construction	\$ -	\$ -	\$ 1,093,250	\$ -	\$ -	\$ -	\$ -	\$ 1,093,250
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 64,027</b>	<b>\$ 8,000</b>	<b>\$ 1,110,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,182,027</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Sykes 50 MI-RR-174 19 E

## SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) UPGRADE

**Department:** Utility Services Department

**Program:** Water/Wastewater

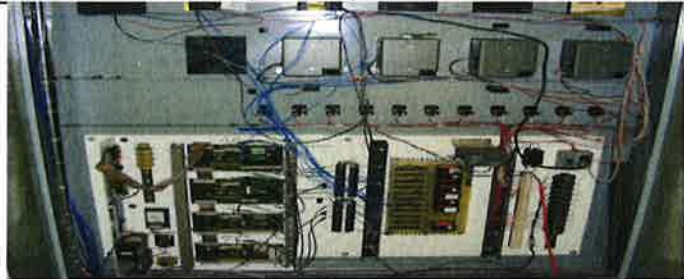
**Project Total:** \$ 262,339

**Project Description**

Supervisory Control And Data Acquisition (SCADA) system requires upgrade to Remote Terminal Unit (RTU) hardware, fiber optics network and system engineering and software programming /integration at the Sykes Wastewater Plant. May be procured from state or other cooperative agreement.

**Service Impact**

The existing SCADA system is not capable of providing all the information required to properly monitor and operate the facility. This upgrade would bring the plant up to the current level of performance needed.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6351204

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 162,339	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 262,339
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 162,339</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 262,339</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 162,339	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 262,339
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 162,339</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 262,339</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Sykes 70 MI-RR-95 19 NE



## REPLACEMENT OF SYKES WWTP GENERATORS & UPGRADE ELECTRICAL SYSTEM

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,050,000

**Project Description**

Replace two emergency power generators at Sykes Creek Wastewater Treatment Plant (WWTP). Conduct engineering to ensure proper sizing of systems. Replace switch gear and modify related electrical equipment as needed. May be procured from state or other cooperative agreement.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2020

**Service Impact**

Replacing generators will ensure emergency power is available during commercial power disruption. Current generators are insufficient to run the plant on emergency power. Meet new Federal emissions requirements.

**Start Date:** 10/01/15      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6351205

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 100,000	\$ 950,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ 100,000	\$ 950,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,050,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Construction	\$ -	\$ -	\$ 950,000	\$ -	\$ -	\$ -	\$ -	\$ 950,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ 100,000	\$ 950,000	\$ -	\$ -	\$ -	\$ -	\$ 1,050,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

## RECLAIMED WATER IMPROVEMENTS AT WWTP

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,583,912

**Project Description**

Equipment and process improvements to the Sykes Wastewater Treatment Plant Reclaimed water system.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Service Impact**

Continued availability of reclaimed water. Regulated by Department of Environmental Protection.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6300236

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 158,912	\$ 1,300,000	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 1,583,912
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ 158,912	\$ 1,300,000	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 1,583,912

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 69,342	\$ 89,570	\$ 257,384	\$ -	\$ -	\$ -	\$ -	\$ 416,296
Construction	\$ -	\$ -	\$ 1,042,616	\$ 125,000	\$ -	\$ -	\$ -	\$ 1,167,616
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ 69,342	\$ 89,570	\$ 1,300,000	\$ 125,000	\$ -	\$ -	\$ -	\$ 1,583,912

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 111 MI-RR-175 19 E

## AERATION BASINS (2) MOTORS AND DO CONTROL UPGRADE

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,755,000

**Project Description**

Replace Aerator motors and dissolved oxygen controls and associated control systems.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2022

**Service Impact**

Improve efficiency and capacity of the plant.

**Start Date:** 10/01/15      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:** 6984206

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 600,000	\$ 245,000	\$ 645,000	\$ 265,000	\$ -	\$ -	\$ 1,755,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 600,000	\$ 245,000	\$ 645,000	\$ 265,000	\$ -	\$ -	\$ 1,755,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 600,000	\$ 245,000	\$ 645,000	\$ 265,000	\$ -	\$ 1,755,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 600,000	\$ 245,000	\$ 645,000	\$ 265,000	\$ -	\$ 1,755,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 119 MI-RR-183 19 E

## CONE ROAD INFRASTRUCTURE

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 35,000

**Project Description**

Replace gravity sewer line. Relocating an asbestos force main with a PVC Force Main due to a Road and Bridge /MIRA Project.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Service Impact**

This line is brittle and easily breaks under normal pressure. This will reduce system failures.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6939200

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 123 MI-RR-187 19 E

## N COURTNEY LATERAL REPLACEMENT

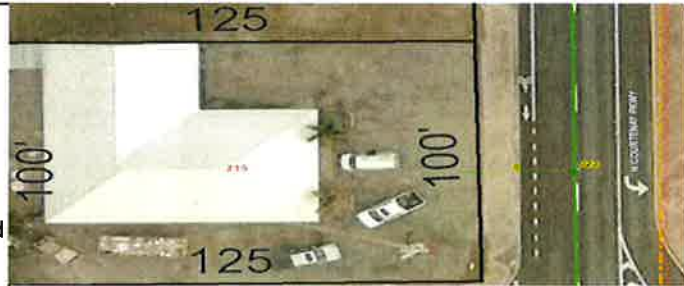
**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 80,000

**Project Description**

Replace corroded ductile iron pipe which is causing breaks and clogged pipes.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2019

**Service Impact**

The replacement of this pipe will prevent future back-ups and North Courtney Parkway from having sinkholes.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6572206

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ 80,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ 80,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 124 MI-RR-193 19 NE



## LIFT STATION V11 DRIVEWAY

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 60,000

**Project Description**

Install new driveway at high maintenance lift station.



**Project Milestones**

Sykes Wastewater

Construction complete September 2019

**Service Impact**

Due to high maintenance activity at this neighborhood lift station, we need the paved driveway to protect customer property.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6939204

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 127 MI-RR-191 19

## LIFT STATION R02 DRIVEWAY

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 60,000

**Project Description**

Install new driveway at high maintenance lift station.



**Project Milestones**

Sykes Wastewater

Construction complete September 2019

**Service Impact**

Due to high maintenance activity at this neighborhood lift station, we need the paved driveway to protect customer property.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6939203

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 128 MI-RR-192 19





## N COURTENAY PKWY FORCEMAIN/RECLAIMED WATER LINE EXTENSION PHASE 3

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 400,000

**Project Description**

Install approximately 2 miles of forcemain and reclaimed water lines north of Church Road on North Courtenay Parkway to serve additional north Merritt Island residents. This construction will be completed in conjunction with developer paid expansion of the system.

**Service Impact**

Additional North Merritt Island residents will be able to connect to sewer service.



**Project Milestones**

Sykes Wastewater

Construction complete September 2019

**Start Date:** 10/01/18

**End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6985219

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Permit/Fees	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

## WEST COCOA SEWER IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 10,772,870

**Project Description**

Replace certain lift stations and rehabilitate others to bring them into a standard condition. Upgrade pumps in certain lift stations to manage the pressures in the existing force mains. Remove and replace asbestos cement force mains with PVC or HDPE. Replace gravity sewers where necessary to provide sufficient slopes. May be procured from state or other cooperative agreement. An application for a State Revolving Fund (SRF) loan is being processed to pay for construction.

**Service Impact**

Many of the lift stations are sub-standard in that they are merely manholes with pumps in them. There is a history of high maintenance and sewage overflows. Asbestos cement force mains are brittle and prone to break. Pumping rates have not been standardized to have the various pumping stations operate as a system to increase efficiency and limit overflows.



**Project Milestones**

West Cocoa Wastewater  
Construction complete September 2021

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6300127

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 412,870	\$ 200,000	\$ 1,000,000	\$ 1,160,000	\$ -	\$ -	\$ -	\$ 2,772,870
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ 800,000	\$ 2,960,000	\$ 4,240,000	\$ -	\$ -	\$ 8,000,000
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 412,870</b>	<b>\$ 200,000</b>	<b>\$ 1,800,000</b>	<b>\$ 4,120,000</b>	<b>\$ 4,240,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,772,870</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ 412,870	\$ 200,000	\$ 1,000,000	\$ 1,160,000	\$ -	\$ -	\$ -	\$ 2,772,870
Construction	\$ -	\$ -	\$ -	\$ 3,760,000	\$ 4,240,000	\$ -	\$ -	\$ 8,000,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 412,870</b>	<b>\$ 200,000</b>	<b>\$ 1,000,000</b>	<b>\$ 4,920,000</b>	<b>\$ 4,240,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,772,870</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

WC 18 RS-RR-141 19 E

## BOOSTER STATION CHLORINE PUMPS / INSTALL SOFT STARTERS ON BFB BOOSTER PUMPS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 475,000

**Project Description**

Place chlorine pumps at the Barefoot Bay water distribution system booster station and install soft starters on existing booster station pumps.

**Service Impact**

This will help resolve chlorine residual problems further into the distribution system and keep the water plant in compliance with Department of Environmental Protection regulations and increase storage capacity. Installing soft starters lengthen electrical equipment lifespan by controlling electric surge during start-up.



**Project Milestones**

Barefoot Bay Water  
Construction complete September 2020

**Start Date:** 10/01/15      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 513868

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 75,000	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 475,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 75,000	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 475,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000
Construction	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 75,000	\$ 400,000	\$ -	\$ -	\$ -	\$ 475,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB W 12 BW-RR-15 19 E

## CONSTRUCT 300,000-GALLON WATER STORAGE TANK AND DEMOLISH EXISTING TANK

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,100,018

**Project Description**

Construct a 300,000-gallon water storage tank on the site of the Barefoot Bay Water Treatment Plant to replace the existing tank.



**Project Milestones**

Barefoot Bay Water  
Construction complete September 2019

**Service Impact**

The existing water storage tank has corroded to the point of failure. Rehabilitation of the existing tank is not a reliable option due to the unknown strength of the tank sidewalls. The cost of investigation and rehabilitation rivals that of replacement.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6984314

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 50,018	\$ 50,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,100,018
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 50,018</b>	<b>\$ 50,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,100,018</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 50,018	\$ 50,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,100,018
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 50,018</b>	<b>\$ 50,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,100,018</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

BFB WW 17 BW-RR-22 19 E

## MODIFY AIR PIPING AND RELOCATE BLOWERS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 430,000

**Project Description**

Relocate blowers out of air-conditioned space and replace air pipeline with above-ground stainless steel.



**Project Milestones**

Barefoot Bay Wastewater  
Construction complete September 2019

**Service Impact**

Blowers generate a lot of heat and should not be enclosed within air conditioned spaces. The air piping is underground and the gaskets have deteriorated causing air leaks. The deterioration of this system has resulted in high energy costs.

**Start Date:** 10/01/15      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6540311

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 430,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 430,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 430,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 430,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 430,000	\$ -	\$ -	\$ -	\$ -	\$ 430,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 430,000	\$ -	\$ -	\$ -	\$ -	\$ 430,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 10 BS-RR-14 19 E

## LIFT STATION X15 REHABILITATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 37,000

**Project Description**

Rehabilitate 31 year old lift station



**Project Milestones**

Barefoot Bay Wastewater

Construction complete September 2019

**Service Impact**

The lift station and its components are aged and need to be brought to new condition.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6982305

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 14 BS-RR-7 19 E

## LIFT STATION X03 REHABILITATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 125,000

**Project Description**

Rehabilitate 39 year old lift station.



**Project Milestones**

Barefoot Bay Wastewater

Construction complete September 2019

**Service Impact**

The lift station and its components are aged and need to be brought to new condition.

**Start Date:** 10/01/15      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6982310

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 15 BS-RR-23 19 E



## INSTALL FAN PRESS FOR SLUDGE DEWATERING

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 800,000

**Project Description**

Install a sludge fan press at the wastewater treatment plant.  
May be procured from state or other cooperative agreement.



**Project Milestones**

Barefoot Bay Wastewater  
Construction complete September 2020

**Service Impact**

A fan press is the most efficient method for dewatering sludge.

**Start Date:** 10/01/15      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6540310

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 125,000	\$ 675,000	\$ -	\$ -	\$ -	\$ -	\$ 800,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 125,000	\$ 675,000	\$ -	\$ -	\$ -	\$ -	\$ 800,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000
Construction	\$ -	\$ -	\$ -	\$ 675,000	\$ -	\$ -	\$ -	\$ 675,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 125,000	\$ 675,000	\$ -	\$ -	\$ -	\$ 800,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 18 BS-9 19 E

## BAREFOOT BAY INFLOW & INFILTRATION REDUCTION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 350,000

**Project Description**

Relining of gravity lines and grouting service laterals.



**Project Milestones**

Barefoot Bay Wastewater  
Construction  
Ongoing Project

**Service Impact**

Rehabilitation reduces inflow and infiltration which reduces pumping expense, overflows and returns capacity to the plant.

**Start Date:** 10/01/15

**End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 6981308

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ 150,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 350,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ 150,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 350,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 150,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 350,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 150,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 350,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 90 BW-RR-23 19 NE

## BAREFOOT BAY SCADA IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 45,000

**Project Description**

SCADA improvement project will add SCADA to those lift stations without monitoring and update old, obsolete systems.



**Project Milestones**

Barefoot Bay Wastewater  
Construction complete September 2019

**Service Impact**

This will save money and time. Employees will not have to travel out to each site every day. This will also monitor stations 24/7 for any issues.

**Start Date:** 10/01/18      **End Date:** 09/30/19

**Project Manager:** TBD

**Funded Program:** 6538324

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 21 BS-RR-20 19 NE

## CLARIFIER MECHANISM REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 261,000

**Project Description**

Mechanisms appeared to be in good working order. Train 1 clarifier is 29 years old and Train 2 clarifier is 18 years old. Anticipate replacement at 35 years of age.



**Project Milestones**

Mims Water

Construction complete September 2020

**Service Impact**

The replacement of this mechanism will ensure proper operation of the water plant and to keep the plant in compliance with the Department of Environmental Protection.

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 261,000	\$ -	\$ -	\$ -	\$ -	\$ 261,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 261,000	\$ -	\$ -	\$ -	\$ -	\$ 261,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 261,000	\$ -	\$ -	\$ -	\$ 261,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 261,000	\$ -	\$ -	\$ -	\$ 261,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Mims 19 NW-RR-50 20 NE

## MIMS WTP VEHICLE STORAGE BUILDING

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 300,000

**Project Description**

Construct a Vehicle Storage Building for Mims Water Treatment Plant maintenance. May be procured from state or other cooperative agreement.

**Service Impact**

Provide covered storage to protect vehicles and other mobile equipment. Vehicle Storage Building will increase longevity of maintenance vehicles due to the harsh conditions on beachside.



**Project Milestones**

Mims Water  
Construction complete September 2020  
Facilities

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6501107

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Mims 42 NW-39 20 NE

## REDUNDANT MOTOR CONTROL CENTER (MCC) FOR CLASS 1 RELIABILITY

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 675,000

**Project Description**

Install a second Motor Control Center (MCC) to feed half of the equipment at the Mims water plant for Class 1 reliability. May be procured from state or other cooperative agreement.



**Project Milestones**

Mims Water

Construction complete September 2022

**Service Impact**

There is one main motor control center (MCC) controlling the entire Mims water treatment plant. If this MCC were to fail or be damaged the plant would be out of service. This second MCC will feed half of the plant equipment as a backup.

**Start Date:** 10/01/19      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:** 6540104

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 67,500	\$ 382,500	\$ 225,000	\$ -	\$ -	\$ 675,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 67,500	\$ 382,500	\$ 225,000	\$ -	\$ -	\$ 675,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 67,500	\$ -	\$ -	\$ -	\$ 67,500
Construction	\$ -	\$ -	\$ -	\$ -	\$ 382,500	\$ 225,000	\$ -	\$ 607,500
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 67,500	\$ 382,500	\$ 225,000	\$ -	\$ 675,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Mims 16 NW-RR-23 20 E

## DISINFECTION SYSTEM IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 170,000

**Project Description**

Replace disinfection system components at the North Brevard Wastewater Treatment Plant. May be procured from state or other cooperative agreement.



**Project Milestones**

North Brevard Wastewater  
Construction complete September 2020

**Service Impact**

Replace disinfection system components that have been in service since 1986.

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6540109

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 170,000	\$ -	\$ -	\$ -	\$ -	\$ 170,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 170,000	\$ -	\$ -	\$ -	\$ -	\$ 170,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 170,000	\$ -	\$ -	\$ -	\$ 170,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 170,000	\$ -	\$ -	\$ -	\$ 170,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

N Brev 14 NS-RR-34 20 E

## EFFLUENT TRANSFER PUMPING SYSTEM IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 147,000

**Project Description**

Replace the effluent transfer pump system. May be procured from state or other cooperative agreement.



**Project Milestones**

North Brevard Wastewater  
Construction complete September 2020

**Service Impact**

Ensure continuity of plant operations, improve efficiency, maintain Florida Department of Environmental Protection (FDEP) Permit compliance.

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6540113

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 147,000	\$ -	\$ -	\$ -	\$ -	\$ 147,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 147,000	\$ -	\$ -	\$ -	\$ -	\$ 147,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 147,000	\$ -	\$ -	\$ -	\$ 147,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 147,000	\$ -	\$ -	\$ -	\$ 147,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

N Brev 12 NS-RR-54 20 E



## FORCE MAIN N02 REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 700,000

**Project Description**

Cast iron force main was installed in 1968. Replace 5400 LF of 4-inch with PVC force main.



**Project Milestones**

North Brevard Wastewater

Construction complete September 2021

**Service Impact**

This replacement will improve pumping capacity, reduce spills and system failures.

**Start Date:** 10/01/19      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6985107

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 100,000	\$ 600,000	\$ -	\$ -	\$ -	\$ 700,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 100,000	\$ 600,000	\$ -	\$ -	\$ -	\$ 700,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 600,000	\$ -	\$ -	\$ 600,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 100,000	\$ 600,000	\$ -	\$ -	\$ 700,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

N Brev 20 NS-RR-39 20 E

## RECLAIMED WATER PUMPING SYSTEM IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 131,000

**Project Description**

Add a second 100-horsepower reclaimed water pump and inverter duty motor for variable frequency drive. May be procured from state or other cooperative agreement.

**Service Impact**

A second reclaimed water pump is necessary as a redundant backup for the reclaimed water system.



**Project Milestones**

North Brevard Wastewater

Construction complete September 2020

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6984107

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 131,000	\$ -	\$ -	\$ -	\$ -	\$ 131,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 131,000	\$ -	\$ -	\$ -	\$ -	\$ 131,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 131,000	\$ -	\$ -	\$ -	\$ 131,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 131,000	\$ -	\$ -	\$ -	\$ 131,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

N Brev 11 NS-RR-53 20 E

## CHLORINE CONTACT CHAMBER

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,000,000

**Project Description**

Build another chlorine contact chamber for disinfection for reclaimed water. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2020

**Service Impact**

To provide redundant disinfection chambers to maintain reclaimed production during high flow situations.

**Start Date:** 10/01/18      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6984312

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Bch 99 SB-RR-194 20 E

## CLARIFIER REHABILITATION (6 MGD)

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,000,000

**Project Description**

Rehabilitation of 6 million gallon per day (MGD) clarifier, including replacing drive motor and gear, stilling well replacement, sandblast and coat submerged mechanism, and coat interior concrete. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2021

**Service Impact**

Clarifier is in need of refurbishment to retain its structural integrity.

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6984310

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 700,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 1,000,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 700,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 1,000,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 700,000	\$ 300,000	\$ -	\$ -	\$ 1,000,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 700,000	\$ 300,000	\$ -	\$ -	\$ 1,000,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Bch 92 SB-RR-187 20 NE

## RECLAIMED WATER GROUND STORAGE TANK

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,100,000

**Project Description**

Construct a 2 million gallon (MG) ground storage tank for the reclaimed water (reuse) system. May be procured from state or other cooperative agreement.

**Service Impact**

Additional storage capacity will increase reuse distribution reliability and capacity.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2021

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6984311

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 100,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,100,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 100,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,100,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 100,000	\$ 1,000,000	\$ -	\$ -	\$ 1,100,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Bch 93 SB-RR-188 20 E

## REHABILITATE 2 MGD AERATION BASIN

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 2,050,000

**Project Description**

2 MDGD Aeration Basin Rehabilitation



**Project Milestones**

South Beach Wastewater

Construction complete September 2021

**Service Impact**

This work is needed to update the aeration basin and air system due to age and poor condition. Also needed to keep the plant in compliance with the Department of Environmental Protection regulations.

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 50,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,050,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 50,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,050,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 50,000	\$ 2,000,000	\$ -	\$ -	\$ 2,050,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Bch 114 SB-RR-206 20

## ALUM TANK REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 150,000

**Project Description**

Replace existing Aluminum Sulfate (Alum) storage tank originally installed in 1998. The tank is Fiberglass Reinforced Plastic (FRP) and is nearing the end of its useful life. May be procured from state or other cooperative agreement.

**Service Impact**

New tank will provide continued service to facility in order to maintain uninterrupted service.



**Project Milestones**

South Central Wastewater  
Construction complete September 2020

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6540411

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 82 RS-RR-144 20 NE

## CHLORINE TANK AND PUMPS SYSTEM REHABILITATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 380,000

**Project Description**

Replace two (2) existing storage tanks originally installed in 2005/2006. Replace chlorine pump system installed in 2012. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Construction complete September 2021

**Service Impact**

Ensure continuity of plant operation to avoid down time and to maintain Florida Department of Environmental Protection (FDEP) permit compliance.

**Start Date:** 10/01/19      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6540410

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 80,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 380,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 80,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 380,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ 80,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ 300,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 80,000	\$ 300,000	\$ -	\$ -	\$ 380,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 87 RS-RR-147 20 E



## OXIDATION DITCHES WALKWAY EXTENSION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 280,000

**Project Description**

Extend oxidation ditch walkways and relocation of oxygen sensors. May be procured from state or other cooperative agreement.

**Service Impact**

Relocate oxygen sensors in oxidation ditches and extend walkways to access oxygen sensors to provide more accurate data for improved operational control.



**Project Milestones**

South Central Wastewater  
Construction complete September 2021

**Start Date:** 10/01/19      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6540408

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 80,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 280,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 80,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 280,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ 80,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ 200,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 80,000	\$ 200,000	\$ -	\$ -	\$ 280,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 91 RS-RR-151 20 E

## PAVE PLANT ROADWAYS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 70,000

**Project Description**

Rehabilitate plant roadways and pave dirt roadways. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Construction complete September 2021

**Service Impact**

This project will pave the roadways within the treatment plant. There are dirt roads within the plant site which need to be paved and the existing paved roadways need to be rehabilitated.

**Start Date:** 10/01/19      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6570407

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ -	\$ 70,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ -	\$ 70,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ 70,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ 70,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 4.4 RS-RR-132 20 E

## RELOCATE AND INSTALL 1000K DIESEL FUEL TANK AT S CENTRAL WWTP

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 300,000

**Project Description**

Remove fuel storage tank from lift station W15 and install at the South Central Wastewater Treatment Plant after lift station W15 has been replaced.



**Project Milestones**

South Central Wastewater  
Construction complete September 2021

**Service Impact**

Relocating this fuel storage tank to the SCWWTP will provide needed fuel for emergency pumps and generators during storm recovery situations. It also will provide fuel for equipment such as backhoes, skid steer loaders and other diesel equipment used by maintenance staff. It will not be used to fuel trucks.

**Start Date:** 10/01/19      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 75,000	\$ 225,000	\$ -	\$ -	\$ -	\$ 300,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 75,000	\$ 225,000	\$ -	\$ -	\$ -	\$ 300,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ 75,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 225,000	\$ -	\$ -	\$ 225,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 75,000	\$ 225,000	\$ -	\$ -	\$ 300,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 97 RS-RR-157 20 E

## REPLACE RAS / WAS PUMPS AND CONTROLS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 650,000

**Project Description**

Replace return activated sludge (RAS) pumps and waste activated sludge (WAS) pumps and replace return activated sludge (RAS) pumps and waste activated sludge (WAS) pumps. May be procured from state or other cooperative agreement.

**Service Impact**

Existing RAS and WAS pumps have reached the end of their useful life.



**Project Milestones**

South Central Wastewater  
Construction complete September 2020

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6572401

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 650,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 650,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 650,000	\$ -	\$ -	\$ -	\$ 650,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 650,000	\$ -	\$ -	\$ -	\$ 650,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 67 RS-RR-125 20 NE

## S CENTRAL WWTP STORAGE BUILDING MODIFICATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 350,000

**Project Description**

Enclose three-sided storage building at the South Central Wastewater Treatment Facility.



**Project Milestones**

South Central Wastewater  
Construction complete September 2020

**Service Impact**

Enclosing this building will improve material storage security, keep stored materials from being damaged by ultraviolet light and help keep materials cleaner.

**Start Date:** 10/01/28      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 94 RS-RR-154 20

## SOUTH CENTRAL VALVE REPLACEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 308,525

**Project Description**

This project consists of replacing valves in the wastewater collection and reuse system that have become inoperable or no longer seal off the flow of water. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Ongoing Project

**Service Impact**

The installation of usable valves will allow the flow to be shut off during repairs. This protects the workers and in the case of the reuse system, allows more of the system to remain in operation during repairs.

**Start Date:** 10/01/19      **End Date:** ONGOING

**Project Manager:** TBD

**Funded Program:** 513873

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ 8,525	\$ -	\$ 200,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 308,525
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	<b>\$ 8,525</b>	<b>\$ -</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 308,525</b>

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 8,525	\$ -	\$ -	\$ 200,000	\$ 100,000	\$ -	\$ -	\$ 308,525
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	<b>\$ 8,525</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 308,525</b>

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

S Cent 9NS RS-RR-67 20 NE

## FORCE MAIN C07 ON SKYLINE BLVD. REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 116,000

**Project Description**

Remove and replace approximately 1665 LF of 6-inch asbestos cement force main along Skyline Blvd.



**Project Milestones**

Sykes Wastewater

Construction complete September 2021

**Service Impact**

The pipe is brittle and easily broken causing service outages.

**Start Date:** 10/01/19      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6985212

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 39,000	\$ 77,000	\$ -	\$ -	\$ -	\$ 116,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 39,000	\$ 77,000	\$ -	\$ -	\$ -	\$ 116,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 39,000	\$ -	\$ -	\$ -	\$ 39,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 77,000	\$ -	\$ -	\$ 77,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 39,000	\$ 77,000	\$ -	\$ -	\$ 116,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 42 MI-RR-123 20 E

## FORCE MAIN M11 ON MERRITT AVENUE REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 135,000

**Project Description**

Remove and replace approximately 1000 LF of 8-inch asbestos cement (AC) force main along E. Merritt Avenue. Asbestos cement pipe is very brittle and is vulnerable to breakage.

**Service Impact**

This will greatly reduce man hours repairing old asbestos cement pipe and keep is in Department of Environmental Protection compliance.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2020

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6985208

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 135,000	\$ -	\$ -	\$ -	\$ -	\$ 135,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 135,000	\$ -	\$ -	\$ -	\$ -	\$ 135,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 27,000	\$ -	\$ -	\$ -	\$ 27,000
Construction	\$ -	\$ -	\$ -	\$ 108,000	\$ -	\$ -	\$ -	\$ 108,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 135,000	\$ -	\$ -	\$ -	\$ 135,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 30 MI-RR-112 20 E



## REPLACE EQUIPMENT STORAGE/PIPE RACK BUILDING

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 250,000

**Project Description**

Replace existing equipment storage and pipe rack covered structure in Sykes Creek Maintenance yard



**Project Milestones**

Sykes Wastewater  
Construction complete September 2020

**Service Impact**

Existing structure is in poor condition. New structure will allow lawn maintenance equipment to be stored out of the shop, per fire code.

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 125 MI-RR-189 20

## SLUDGE DEWATERING SYSTEM IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,131,000

**Project Description**

Add a second centrifuge and rehabilitate the dewatering structure. May be procured from state or other cooperative agreement.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2020

**Service Impact**

There is currently one centrifuge on site and this would install another as backup so one can be taken out of serve for maintenance or repair. The building needs rehabilitation also.

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6520203

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 1,131,000	\$ -	\$ -	\$ -	\$ -	\$ 1,131,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 1,131,000	\$ -	\$ -	\$ -	\$ -	\$ 1,131,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 226,200	\$ -	\$ -	\$ -	\$ 226,200
Construction	\$ -	\$ -	\$ -	\$ -	\$ 904,800	\$ -	\$ -	\$ 904,800
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 226,200	\$ 904,800	\$ -	\$ -	\$ 1,131,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 44 MI-RR-160 20 E

## SNUG HARBOR LIFT STATION X-17 REHABILITATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 125,000

**Project Description**

X



**Project Milestones**

Barefoot Bay Water

Construction complete September 2020

**Service Impact**

X

**Start Date:** 10/01/15      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6982307

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 13 BS-RR-11 20 E

## FILTRATION SYSTEM EVALUATION, IMPROVEMENT AND PROCESS CONTROL

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 291,000

**Project Description**

Replace existing filter control panel and control valves. May be procured from state or other cooperative agreement.



**Project Milestones**

North Brevard Wastewater  
Construction complete September 2022

**Service Impact**

The existing system was installed in 1986 and has reached the end of its useful life. Replacement parts are no longer available and newer filtration system would provide increased reliability and efficiency.

**Start Date:** 10/01/20      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:** 6540108

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 38,000	\$ 253,000	\$ -	\$ -	\$ 291,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 38,000	\$ 253,000	\$ -	\$ -	\$ 291,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ 38,000	\$ -	\$ -	\$ 38,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 253,000	\$ -	\$ 253,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 38,000	\$ 253,000	\$ -	\$ 291,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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## FORCE MAIN N03 REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 650,000

**Project Description**

Cast iron force main was installed in 1968. Replace 1200 LF of 4-inch with PVC force main and 1800 LF of 6-inch with PVC force main.

**Service Impact**

This replacement will improve pumping capacity and reduce wastewater spills and system failures.



**Project Milestones**

North Brevard Wastewater  
Construction complete September 2023

**Start Date:** 10/01/21      **End Date:** 09/30/23

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services		\$ -	\$ -	\$ 150,000	\$ 500,000	\$ -	\$ -	\$ 650,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 150,000	\$ 500,000	\$ -	\$ -	\$ 650,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -	\$ 150,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 500,000	\$ -	\$ 650,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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## NORTH STORAGE POND

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 600,000

**Project Description**

Install additional storage pond and pumping system North of two existing storage ponds at the SCWWTP.



**Project Milestones**

South Central Wastewater  
Construction complete September 2022

**Service Impact**

Installing this pond will provide additional water storage for the South Central Wastewater Treatment Facility to be used to augment the reclaimed water during times of drought.

**Start Date:** 10/01/19      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 75,000	\$ 525,000	\$ -	\$ -	\$ 600,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 75,000	\$ 525,000	\$ -	\$ -	\$ 600,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ 75,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 525,000	\$ -	\$ -	\$ 525,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 75,000	\$ 525,000	\$ -	\$ -	\$ 600,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

S Cent 98 RS-RR-158 21

## WASTEWATER TREATMENT PLANT BLOWER REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 475,000

**Project Description**

Replace centrifugal blowers with high efficiency turbo blowers. May be procured from state or other cooperative agreement.



**Project Milestones**

South Central Wastewater  
Construction complete September 2022

**Service Impact**

Reduced maintenance requirements and lower electrical power costs.

**Start Date:** 10/01/20      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:** 514408

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 75,000	\$ 400,000	\$ -	\$ -	\$ 475,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 75,000	\$ 400,000	\$ -	\$ -	\$ 475,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ 75,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ 400,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ 400,000	\$ -	\$ 475,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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## Sykes Wastewater Sludge Handling

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 1,100,000

**Project Description**

Add a second centrifuge and rehabilitate the dewatering structure/building.



**Project Milestones**

Sykes Wastewater Construction  
Construction complete September 2021

**Service Impact**

Rehabilitating this structure is needed due to its age and poor condition. Replacing the dewatering unit will be needed as redundancy and will allow them to perform preventative maintenance on one while the other is being used.

**Start Date:** 10/01/19      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ 220,000	\$ 880,000	\$ -	\$ -	\$ -	\$ 1,100,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ 220,000	\$ 880,000	\$ -	\$ -	\$ -	\$ 1,100,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ 220,000	\$ -	\$ -	\$ -	\$ 220,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ 880,000	\$ -	\$ -	\$ 880,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 220,000	\$ 880,000	\$ -	\$ -	\$ 1,100,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



## FORCE MAIN C08 REPLACEMENT

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 360,000

**Project Description**

Remove and replace approx. 3500 LF of 6" AC FM in residential back yards along the west side of Sykes Creek Dr. May be procured from state or other cooperative agreement.



**Project Milestones**

Sykes Wastewater  
Construction complete September 2022

**Service Impact**

The existing asbestos cement force main is brittle and has a history of breaking.

**Start Date:** 10/01/20      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:** 6985209

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 60,000	\$ 300,000	\$ -	\$ -	\$ 360,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 60,000	\$ 300,000	\$ -	\$ -	\$ 360,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ 60,000
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 60,000	\$ 300,000	\$ -	\$ 360,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sykes 37 MI-RR-119 21 E

## BFB WATER PLANT ALUM TANK PERMANENT CONTAINMENT / CANOPY

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 154,600

**Project Description**

Construct a permanent containment structure and canopy for the Barefoot Bay Water bulk alum storage tank.



**Project Milestones**

Barefoot Bay Water  
Construction complete September 2022

**Service Impact**

Extend the life of the tank, avoid evaporation, and overflow.

**Start Date:** 10/01/15      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 25,000	\$ 129,600	\$ -	\$ -	\$ 154,600
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 25,000	\$ 129,600	\$ -	\$ -	\$ 154,600

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 129,600	\$ -	\$ 154,600
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 129,600	\$ -	\$ 154,600

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB W 25 BW-RR-25 21 E

## INSTALL CARBON DIOXIDE BULK TANK

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 465,211

**Project Description**

The treatment plant uses several small tanks to supply carbon dioxide gas for use within the treatment process to lower the pH level following the lime softening process. The plant desires to install a bulk carbon dioxide tank to replace the multiple small carbon dioxide tanks currently on site.

**Service Impact**

It is expected the use of the bulk tank will reduce the carbon dioxide chemical costs for the facility and will decrease the number of truck deliveries to the plant.



**Project Milestones**

Barefoot Bay Water

Construction complete September 2022

**Start Date:** 10/01/15      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 46,521	\$ 418,690	\$ -	\$ -	\$ 465,211
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 46,521	\$ 418,690	\$ -	\$ -	\$ 465,211

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ 46,521	\$ -	\$ -	\$ 46,521
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 418,690	\$ -	\$ 418,690
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 46,521	\$ 418,690	\$ -	\$ 465,211

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB W 26 BW-RR-26 21 E

## LIFT STATION X04

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 125,000

**Project Description**

Rehabilitate a 42 year old lift station.



**Project Milestones**

Barefoot Bay Wastewater

Construction complete September 2021

**Service Impact**

The lift station and its components are aged and need to be brought to new condition.

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ 125,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ 125,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 16 BS-RR-24 21 E

## STORAGE BUILDING

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 250,000

**Project Description**

New building at Barefoot Bay Wastewater Treatment Plant for storage of maintenance supplies and equipment. May be procured from state or other cooperative agreement.



**Project Milestones**

Barefoot Bay Wastewater  
Construction complete September 2021

**Service Impact**

Provide covered storage of equipment currently stored outside. Covered storage will extend the life of equipment.

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 6501309

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ 250,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ 250,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 17 BS-7 21 NE

## WASTEWATER TREATMENT PLANT IMPROVEMENTS

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 85,227

**Project Description**

Improvements include upgrade of the internal recycle pumps, replace operations building roof, upgrade effluent transfer pump, install roof over sodium hypochlorite chemical tanks. May be procured from state or other cooperative agreement.

**Service Impact**

Replace or upgrade existing plant systems to improve operability, improve efficiency, and reduce operating and maintenance costs. Without these improvements plant operations will suffer due to reduced efficiency and higher maintenance costs.



**Project Milestones**

Barefoot Bay Wastewater  
Construction complete September 2021

**Start Date:** 10/01/15      **End Date:** 09/30/21

**Project Manager:** TBD

**Funded Program:** 513908

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ 85,227	\$ -	\$ -	\$ -	\$ 85,227
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ 85,227	\$ -	\$ -	\$ -	\$ 85,227

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ 85,227	\$ -	\$ -	\$ 85,227
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ 85,227	\$ -	\$ -	\$ 85,227

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 1 BS-RR-5 21 E

## LIFT STATION S06 GENERATOR

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 80,000

**Project Description**

Install a permanent back up generator at lift station S06. May be procured from state or other cooperative agreement.



**Project Milestones**

South Beach Wastewater  
Construction complete September 2022

**Service Impact**

Lift station S06 repumps wastewater from lift stations S07 and S26. A backup generator is required by the rules of the Florida Department of Environmental Protection.

**Start Date:** 10/01/21      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:** 6351412

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ 80,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ 80,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000	\$ -	\$ 80,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000	\$ -	\$ 80,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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## LIFT STATION X06 REHABILITATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 125,000

**Project Description**

Rehabilitate 40 year old lift station.



**Project Milestones**

Barefoot Bay Wastewater

Construction complete September 2022

**Service Impact**

The lift station and its components are aged and need to be brought to new condition.

**Start Date:** 10/01/15      **End Date:** 09/30/22

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ 125,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ 125,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ 125,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ 125,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 17 BS-RR-25 22 E



## B06 FORCE MAIN GROUTING

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 500,000

**Project Description**

Grout a 20 inch force main that has been taken out of service on Riverside Drive, Melbourne Beach.



**Project Milestones**

South Beach Wastewater  
Construction completion September 2023

**Service Impact**

This will allow for the force main to be stabilized.

**Start Date:** 10/01/22      **End Date:** 09/30/23

**Project Manager:** TBD

**Funded Program:** 6985306

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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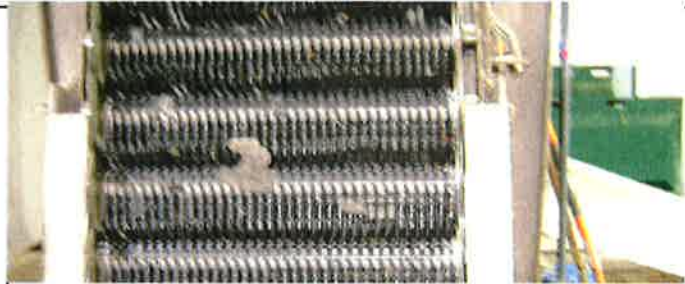
## MECHANICAL BAR SCREEN

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ -

**Project Description**  
Bar Screen Installation



**Project Milestones**

Barefoot Bay Wastewater  
Construction complete September 2023

**Service Impact**

The Bar Screen is needed to filter out debris from the influent wastewater.

**Start Date:** 10/01/18      **End Date:** 09/30/23

**Project Manager:** TBD

**Funded Program:**

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,010,000	\$ -	\$ 1,010,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,010,000	\$ -	\$ 1,010,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,010,000	\$ 1,010,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,010,000	\$ 1,010,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

BFB WW 23 BS-RR-22 23

## SNUG HARBOR LIFT STATION X16 REHABILITATION

**Department:** Utility Services Department

**Program:** Water/Wastewater

**Project Total:** \$ 125,000

**Project Description**

Rehabilitate 31 year old lift station.



**Project Milestones**

Barefoot Bay Wastewater

Construction complete September 2020

**Service Impact**

The lift station and its components are aged and need to be brought to new condition.

**Start Date:** 10/01/19      **End Date:** 09/30/20

**Project Manager:** TBD

**Funded Program:** 6982306

Projected Revenue	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Revenue
Charges for Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ 125,000
Permit/Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unfunded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Loans	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenue</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ 125,000

Projected Expenses	All Prior Fiscal Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Costs
Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Expense</b>	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000

Operating Expenditures (Savings)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 & Future	Total Impact
Personnel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Impact</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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