





Big Cypress Basin Field Station

Henderson Creek Structure 2

Control room for Cocohatchee
Structure 1

Golden Gate Structure 3 (GG3)

Big Cypress Basin

Field Station Activity Report

Juan Bethencourt Superintendent August 27, 2020

sfwmd.gov

OVERVIEW

- Rainy Season Activities
- S-488 Merritt Pump Station, ME#1 Repair
- Tropical Storm Isaias
- Three Month Outlook







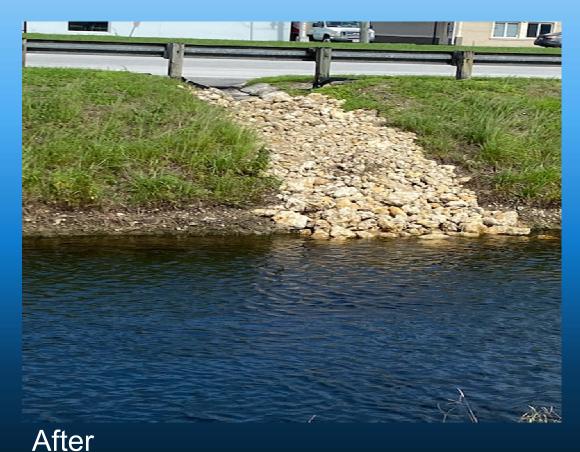
Before

After

Corkscrew Canal Bank Repairs







Before

951 Canal Bank Repairs







Henderson Canal Vegetation Removal







Before

After

Airport Canal Vegetation Removal





Before

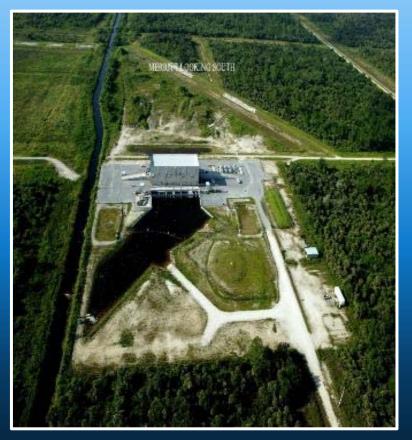


After

GG Canal Access Ramp # 32 - Bar Gate Installation



Merritt/S-488 Pump Station ME#1 Repair



Merrit Pump Station

MERRITT PUMP STATION S-488

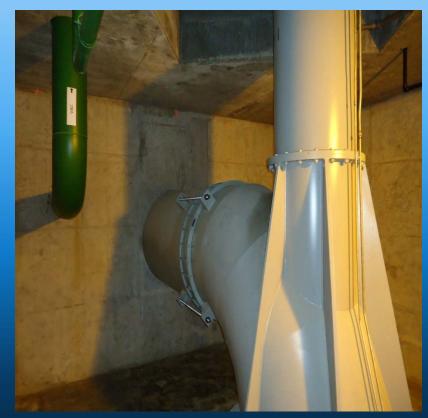
- Accepted June 2016
- 4 Diesel Engines 220 Cubic Feet Second each (CFS)
- 2 Electric Pumps 75 CFS each
- Total approx. capacity 6.7 million gallons per day

On June 8th, 2020 during preventive maintenance inspections a broken shaft was found on main engine #1

Background



Merrit/S-488 Pump Station ME#1 Repair







Original

Power Take Off (PTO)

Shaft / Impeller

Merrit/S-488 Pump Station ME#1 Repair



Broken Shaft



Shaft Deficiencies

Merrit/S-488 Pump Station ME#1 Repair



Impeller Repairs



Shaft/ Impeller Assembly



Pump Assembled

Tropical Storm Isaias Preparations



FAKA By-Pass Plug Removal



All Equipment Staged at FS



Generator Structures, Miller #3

Storm Activities
Presenter: Juan Bethencourt

THREE MONTH OUTLOOK

- Mechanical harvesting of debris and vegetation along canal banks and weed barriers.
- Supporting avoid verbal operational orders (AVO's) throughout the wet season as requested by Water Managers.
- Structure Inspection Program repairs, 90% repairs completed out of 105 deficiencies for FY20.
- Continue with riprap installation along canals as needed.
- Pressure wash and paint various structures.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT



QUESTIONS