



# PUMP STATION IMPROVEMENT PROGRAM

## What is the PSIP?


The Miami-Dade Water and Sewer Department (WASD) has created a Pump Station Improvement Program (PSIP), with an investment of \$168 million, to upgrade its Wastewater Collection and Transmission System. This program, includes pump stations, force mains and gravity lines. All sewer flows collected within a service area basin are pumped to their respective Waste Water Treatment Plant.

## PSIP Team

- 80% of the PSIP Team Members are categorized as Small Business Enterprise (SBE)
- 100% of the PSIP Team consist of local consulting firms
  - **Prime Consultant:** NOVA Consulting, Inc.
    - **Sub-Consultants:**
      - 300 Engineering Group, P.A.
      - MWH Americas, Inc.
      - BND Engineers, Inc.
      - Bermello Ajamil & Partners, Inc.
      - Aviño & Associates, Inc.

## PSIP Program Objective

- Manage a Capital Improvement Program (CIP) to upgrade the County's Wastewater Collection and Transmission System (WCTS) by December 31, 2020. The PSIP will evaluate, design, and construct a total of 147 projects, including Pump Stations, Force Mains and Sanitary Gravity line repairs.
- Guarantee that all pump stations, within the program, meet an established **Nominal Average Pump Operating Time (NAPOT)** of less than 10-hours per day, as mandated by USEPA.
- Ensure that any pump station, within the program, that is out of compliance is upgraded and certified to meet the United States Environmental Protection Agency (USEPA) schedule as agreed under a federal Consent Decree. This is critical as no certificate of occupancy can be issued to any building or facility connecting to a pump station out of compliance until the pump station has been completed and certified as complete.
- Provide necessary upgrades and operational efficiencies to the sanitary sewer infrastructure to continue offering high quality services, to protect the environment and the public health of the residents of Miami-Dade County.



## MIAMI-DADE WATER AND SEWER DEPARTMENT PSIP Program Fact Sheet

Investment: \$168 million

112 Service Area Basins

- Pump Stations
- Force Mains
- Sanitary Gravity Lines

Total Projects: 147

Population Served: 2.3 Million

## Residents and Visitors

### Key Project Features:

- Rehabilitation of Pump Stations, Force Mains and Gravity Lines.
- All projects must meet a US Environmental Protection Agency (USEPA) established completion date.
- All project permits are processed by the Department of Regulatory and Economic Resources (RER) on behalf of the Florida Department of Environmental Protection (FDEP)

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## **Miami-Dade Water and Sewer Department**

### **Pump Station Improvement Program (PSIP)**

### **PSIP Program Fact Sheet**

#### **PSIP Achievements to Date**

- All 2015, 2016, and 2017 USEPA deadlines were met

#### **PSIP Program Benefits to Date**

- Offers opportunities that are targeted to small and local contractors through MCC RPQ Contracts
- \$8.3 million in design fees negotiated and approved to date
  - Total of 141 Task Authorizations executed
  - Approximately \$0.5 million in Task Authorizations remain to be executed
- \$64.0 million in construction awarded to Small Business Contractors to date
  - Approximately \$18.4 million in Construction Contracts remain to be awarded
- Eighty-Seven (87) projects have been certified and/or completed
- Twelve (12) projects substantially completed
- Sixteen (16) projects under construction

#### **PSIP Program Initiatives**

- Health and Safety Coordination
  - Coordinating Health and Safety issues with WASD's Health and Safety Section
  - Conducting reviews of Health and Safety Plans, Hurricane Plans, and Dive Plans developed by Contractors
  - Performing Pump Station Field Visits
  - No incidents to date
- Community Outreach and Awareness Coordination
  - Provide fact sheets informing the public of potential impacts
  - Facilitate resolution of easement encroachments and recordings
  - Respond to public concerns during construction
- Participate in the Miami-Dade Water and Sewer Department (MD-WASD) Small Business Task Force
  - Assisted WASD in expanding the MCC 7040 Pre-Qualified Pool of Small Business Contractor from (6) to (24)
  - Conducting Training Workshops for Small Business Contractors in topics such as scheduling, invoicing, and bidding processes.

#### **PSIP Challenges**

- FP&L Coordination
  - FPL coordination is necessary during the Design Phase, Permitting Phase, and heavily required during the Construction Phase. The PSIP is currently experiencing significant delays from FPL throughout the project cycle
- Permitting Review Process (Municipalities, FDOT, MD-RER, Building Department, and Public Works)
  - The current permitting review process duration is approximately four (4) months
- Procurement Process
  - Issuance of Purchase Order (PO) as well as, issuance of Notice-to-Proceed (NTP) are delaying construction start dates. Average delay for PO Issuance is over 30 days. Average delay for NTP issuance is over 60 days
- Design Task Authorization (TA) Approval Process
  - Processing of Design TA's are delaying design start dates. Average TA processing time is 60 days.

#### **Moratorium Challenge**

- Pump Station 0456 is USEPA 2018 Deadline project. Coordination effort will be required from WASD and jurisdiction agencies to fast track the review and approval process