

MIAMI-DADE WATER AND SEWER - PUMP STATION NO. 1003 UPGRADE

Client Name: *Miami-Dade Water and Sewer Department*

Type of Service: *Environmental Engineering & Construction Management for Pump Station 1003 Upgrades*



Milian, Swain & Associates, Inc. (MSA) was retained by the Miami-Dade Water and Sewer Department (MDWASD) to provide design, regulatory permitting assistance, and construction administration support services for the upgrades and improvements to Pump Station No. 1003.

The project consisted of the improvements to the existing wet well/dry well-type sewage pump stations to meet the Normal Average Pump Operating Time (NAPOT) 10-hour operating criteria. The proposed upgrades to this station consisted of the following:

- Conversion from wet well/dry well-type pump station to a submersible-type pump station
- Removal of the existing 25 Hp submersible pumps, rails and motors
- Installation of 47 Hp submersible pumps, rails and motors
- Rehabilitation of the existing 8-foot x 13-foot diameter wet well via the removal of an existing “false” floor and with the application of a protective coating
- Removal of existing wet well top slab and access hatch and installation of a proposed concrete top slab and access hatch
- Removal of existing pump station discharge piping and valving and installation of upgraded discharge piping and valving
- Removal of existing electrical main disconnect switch, control panel and wiring with upgraded electrical main disconnect, control panel and wiring
- Site regrading and restoration.

MSA prepared the detailed engineering plans, technical specifications, Engineer’s Opinion of Probable Construction Cost, and regulatory permitting applications for the recommended mechanical and electrical improvements to this facility. Relative to the regulatory approval and construction management support services, MSA provided the following assistance:

- Preparation of regulatory permit applications
- Provision of necessary clarifications or plan revisions during the regulatory reviews
- Provision of project bid phase services to consist of construction document review, replies to prospective bidder’s inquiries, and development of record drawings
- Provision of limited construction administrative services to consist of attendance to the pre-construction conference, review of shop drawings and technical submittals, responses to request for information/change orders during construction, preparation of as-built drawings, and assistance with project construction close-out and operational start-up.