



International Middle East

Client

Abu Dhabi's Sewage
Projects Committee

Location

United Arab Emirates

Abu Dhabi Island Sewage and Drainage Pumping Stations

Project Description

OMI, an affiliate of CH2M HILL, and our associates, Bin Ham Electro Mechanical (Bin Ham Group) of Abu Dhabi, were selected to replace Anglian Water International for comprehensive operation and maintenance services (O&M) of the Abu Dhabi Island Sewage and Drainage Pumping Stations in the United Arab Emirates.

The OMI-Bin Ham team operates 67 pumping stations that comprise the current system. Of these pump stations, the largest has the pumping capacity of 93 MGD. Another 16 stations are being refurbished and will be added to the system after commissioning for a total of 83 sewage and drainage pumping stations. The system has central control to monitor and operate all the pump stations and can make operational changes as needed.

Bin Ham Electro Mechanical has an extensive history with Abu Dhabi's Sewage Projects Committee, having built and refurbished numerous facilities for the Committee. Bin Ham is continuing its facilities-development services by developing system-wide telemetry and installing and programming a supervisory control and data acquisition (SCADA) system.

Actions

- The OMI-Bin Ham team is assessing facilities and asset condition to establish condition benchmarks for an asset-management plan.
- Perform a detailed assessment of the computerized maintenance management system in order to make recommendations for improvements to the maintenance schedules (including the addition of a predictive maintenance program), labor, and material planning.

Results and Accomplishments

- After one month of service, the project team was asked to take on additional responsibility for O&M of 22 pump stations connected with the Abu Dhabi Island irrigation system.