

Chub Cay Club Resort Development

Moss and Associates

Chub Cay, Berry Islands, Bahamas

Services Rendered

Civil Engineering

- Coordination with International Design Professionals
- Planning and Design of Resort Infrastructure Including Roads, Water Distribution, Wastewater Collection and Transmission Systems, Reuse Water Distribution System, Grading and Geometry Plans, and Stormwater Drainage Systems
- Construction Management Services for Resort Infrastructure

Coastal Engineering

- Design and Layout of 1,000-Foot Beach Enhancement Including Terminal Groin Structures
- Structural Design of Shoreline Stabilization Structures and Storm Protection Structures
- Structural Review of Proposed Marina Bulkhead and Future Phase Applications

Environmental Services

- Environmental Management Plan (EMP) for the Dredging and Excavation of the Marina Basin Redevelopment

Modeling

- Evaluation of Marina Basin Hydrodynamics and Flushing with Numerical Models



Project Summary

Located 30 miles west of Nassau in the Berry Islands, Chub Cay will become a world-class fishing and yachting destination. Construction on Phase I of the Chub Cay Marina and Resort began in May of 2005, and the first 57 villas were completed in the spring of 2006. The marina, which is being enlarged to accommodate megayachts, has been completely drained to allow for the expeditious expansion of size and depth. The project included a marina expansion of up to 200 slips with a minimum depth of 12 feet, 57 two-story villa style homes, a members-only club house, marina reception and sales buildings, a ships store/dive shop/informal dining facility, and staff housing.

The EMP was prepared in response to a request by the Ministry of Health and Environment and according to the guidelines and recommendations made by the Bahamas Environment, Science and Technology Commission (BEST). The plan addresses the beneficial uses of dredged and excavated material, as well as site environmental controls, and demolition and disposal mitigation.

The modeling results were used to optimize the marina design to ensure adequate basin flushing, both for aquatic life as well as good water clarity for marina aesthetics.