

# Hillsboro / Deerfield Beach, Florida

coastal engineering



Coastal Systems provided coastal engineering, permitting, and environmental services for the design and construction of the Hillsboro Beach/Deerfield Beach Nourishment Project. The project extended along 6,120 feet of chronically eroding shoreline and placed approximately 500,000 cubic yards of sand along 1 mile of Hillsboro Beach and 55,000 cubic yards of sand along southern Deerfield Beach. Design drawings included details of the borrow area, pipeline corridor, beach fill template and groin restoration. Coastal Systems coordinated all field operations for the project including hydrographic and bathymetric surveys, erosion control line survey, magnetometer survey, sand compaction tests and grain sieve analyses, and aerial photography. Coastal Systems secured all state, federal and county permits for the project in addition to conducting all environmental mapping and monitoring associated with the permit requirements. Coastal Systems updated the regional sediment budget and is currently designing/permitting the next periodic renourishment scheduled for 2008. Beach profile and hard-bottom mapping was completed.



Borrow Area



Dredge Ship "Alaska" in Borrow Area



Beach Fill Under Construction

**Client:** Town of Hillsboro Beach

**Location:** Broward County, Florida

**Date of Completion:** 1998

**Construction Cost:** \$2,400,136

