



# Green Harbor Maintenance Dredging

## MARSHFIELD, MASSACHUSETTS

Green Harbor is mainly used by small recreation and commercial fishing boats. Maintenance dredging in the harbor and of the Navigation Channel had last been performed in the 1980s, and the entrance channel was last dredged in 2007. Cashman was contracted to conduct maintenance dredging from within the Channel Entrance limits and side slopes portion of the Channel.

### PROJECT HIGHLIGHTS

- Cashman dredged ~100,000 cubic yards with both near-shore disposal and off-shore disposal at the designated areas:
- Over 62,000 CY of material, mostly mud, from the Anchorage and Turning Basin and disposed of it at the Massachusetts Bay Disposal Site, ~12 miles off Salem, MA.
- Material dredged from the Entrance Channel was disposed at the Nearshore Disposal Site for Unconfined Open Water Disposal in 13-to-15 feet of water at MLLW.
- Work was completed using the clamshell dredge *Wood I* with a combination of a 6-CY heavy digging bucket, a 14-CY bucket for softer material, and one 3,000-CY split-hull barge.
- The *Wood I* and the scow *Eddie Carroll* were mobilized in November 2009, and dredging operations commenced; in January 2010, the dredge *Wood II* and the scow *Mighty Quinn* were utilized to clean up shoals in the Entrance Channel and the southern end of the Anchorage.
- Near the end of the Project, the USACE granted a 1-week extension beyond the contract completion as a direct result of the delays caused by the adverse weather conditions during execution of the project. Despite losing over 30 days due to weather-related delays, the project was completed on February 5, 2010, just five days beyond the original completion date.

Location:	Marshfield, MA
Contractor:	Jay Cashman, Inc. / Cashman Dredging and Marine Contracting Company, LLC
Contract Dates:	Nov. 2009 - Feb. 2010
Dollar Value:	\$1.77 Million
Awarding Authority / Owner:	USACE, New England District

