

HOBBS, UPCHURCH & ASSOCIATES, P.A.



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Ocean Isle Beach Wastewater Treatment Plant Ocean Isle Beach, North Carolina

This project involved the expansion of the Ocean Isle Beach WWTP from 0.75 to 2.0 MGD, an effluent reuse system, and directional drills under the Intracoastal Waterway.

The initial WWTP expansion volume was 1.5 MGD, however the Town decided that they wanted to increase the plant size to 2.0 MGD. HUA worked with the Town and modified the engineering design to include the expanded capacity. HUA was required to complete the re-design of the 2.0 MGD facility within 30 days to avoid delay of construction. The re-design was completed within the allocated time and the project remained on-schedule.

Two directional drills were completed under the Intracoastal Waterway to accommodate water and sewer lines for the Town. The bores included 870 feet for a 12-inch water main and 1,550 feet for a 14-inch sewer force main.

Given the varying discharge alternatives for the expanded WWTP and the directional drills under the Intracoastal Waterway, the permitting process through the varying State agencies was quite extensive. Engineering design was reviewed by NCDENR engineers in addition to a third party engineer hired by the Town. Additional coordination with an outside hydrogeologist was also required. The project was permitted through the NCDENR Non-Discharge Section, NCDENR Land Quality, and through CAMA. HUA prepared the Environmental Assessment which was reviewed through the North Carolina Environmental Clearinghouse prior to being issued a Finding of No Significant Impact (FONSI).