

ABSTRACT

Aptim Coastal Planning and Engineering of North Carolina, Inc. (APTIM) was contracted by Dare County, North Carolina to provide a topographic and hydrographic survey for the Post Construction Monitoring Survey within the project area of the 2017 beach nourishment project. Furthermore, APTIM was contracted by the Town of Duck to conduct beach profile surveys for the remaining portions of the Town outside of the project area. The survey of the Town of Duck consisted of thirty-six (36) profile, including all of Duck and two profiles north of the Town limit. APTIM surveyors conducted the beach and hydrographic surveys November 30, 2017 through December 05, 2017.

The physical monitoring of the Town of Duck included topographic and hydrographic surveys of the beach and offshore areas. The monitoring data is necessary to observe and assess beach conditions for future construction. Monitoring surveys are further needed to continually observe the performance of the nourishment project as well as assess effects of said project on adjacent shorelines.

The scientific monitoring processes provide information necessary to plan, design, and optimize subsequent follow up projects. The information gathered may potentially reduce the need for, and cost of, unnecessary work as well as potentially reducing any environmental impacts that may have occurred or are to be expected.