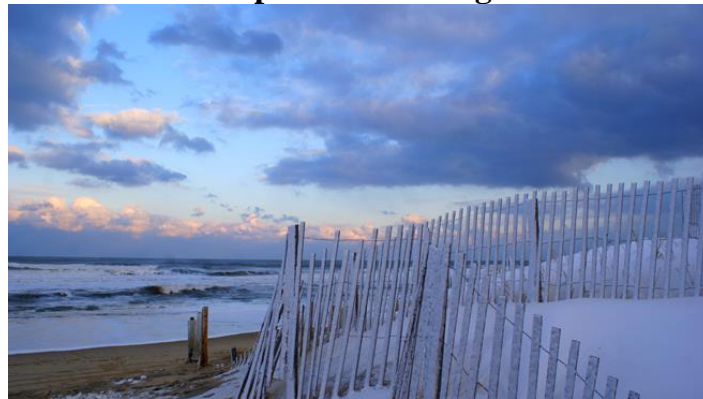




TOWN OF KILL DEVIL HILLS

Land Where Flight Began

Beach Nourishment Update Following Winter Storm Riley



Winter Storm Riley produced high water levels for a long period of time. Approximately 2.0 ft. higher than the predicted high tide for 5 straight high tide cycles. The storm also coincided with the spring high tide or the highest tides of the month which made it even more significant. Wave buoys offshore Duck, NC, recorded waves greater than 16 ft. with wave periods greater than 15 seconds at times.

All that said, the projects generally held up well based on initial observations. No scarping of the dunes at Kill Devil Hills was observed. Some over wash occurred along parts of the Kill Devil Hills project. That means that the wave run up topped 15 ft. in elevation which is pretty significant. We knew from our engineers that the first winter would re-arrange the sand from the way the project was built to the way that nature wanted it to be distributed on the profile (equilibration). Between the three hurricanes that passed in September and these winter storms in March, the project has been through a good test of Outer Banks conditions. New surveys are scheduled to be conducted in the spring, which will show whether any sand from the project was actually lost.

We are pleased with the how the beach has reacted with such extreme weather and how well the nourishment has protected previously vulnerable structures and Town infrastructure. The Town will continue to stabilize the beach with more sea oat plantings next month and continue to build the dune with sand fence.