



Needham Environmental Inc.

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Sammy Varnam
Sunset Beach West, LLC
1574 Monster Buck Estates NW
Supply, NC 28462

RE: Preliminary onsite septic evaluation for the proposed lots located in the Sunset Beach West Subdivision, Sunset Beach, North Carolina.

Dear Mr. Varnam:

Today, I made a site visit to the proposed lots mentioned above, located at the end of West Main Street on Sunset Beach. This is Brunswick County Parcel ID# 263AH01502. In total, twenty-one lots were evaluated as shown on the Sunset Beach Preliminary Plat, dated September 24, 2014. The purpose of this visit was to evaluate each lot for the placement of an eight-bedroom, individual, onsite, subsurface wastewater system. The Department of Health and Human Services, Division of Environmental Health Regulations, NCAC 130A, Section 1900 were used as a guideline for making this evaluation. You were present to help identify property lines and property corners.

The septic evaluation was made in the general location of the second dune from the ocean on each lot, which is approximately located 70' to 120' from the CAMA First Line of Stable Vegetation. **All of the soils encountered within this area were considered suitable to provisionally suitable for the placement of a conventional, subsurface wastewater system.** The soils evaluated had a soil wetness condition of 42" or greater. These soils have a 1.2 gallon/day/sqft Long Term Acceptance Rate or LTAR. A conventional septic system, utilizing alternative trench media, installed in these soils will require 200 linear feet of 3' wide laterals. Pending the actual configuration of the drainfield, it will be between 1400 to 1600 square feet in size. A peat biofilter repair area could be used to decrease the overall footprint of the septic area. The peat biofilter system will be 600 square feet in size. Each lot will also require a 2000 gallon septic tank. The actual location of each septic system and repair area will be determined by the house footprint, house location, proposed decks, proposed driveways, etc.

If you have any questions or concerns regarding this report, please contact me at (910)795-0319, (910)297-1282, or by e-mail at tgulley@gmail.com.

Sincerely,

J. Tom Gulley, Jr.
North Carolina Soil Scientist License# 1256

