

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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22 March 2023

Kevin Smith

Reference: Preliminary Soil Investigation
6053 NC 27 W; PIN 0538-03-2631.000

Dear Mr. Smith,

A site investigation has been conducted for the above referenced property, located on the southern side of NC 27 W in Harnett County, North Carolina. The purpose of this investigation was to determine the site's ability to support subsurface sewage waste disposal systems. All sewage disposal ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". This report represents my professional opinion as a Licensed Soil Scientist but does not guarantee or represent permit approval for any lot by the local Health Department. An improvement permit for all residences will need to be obtained from the Health Department that specifies the proposed home size and location, and the design and location of the septic system to be installed.

A portion of this property was observed to be underlain by a mixture of soils that range from provisionally suitable to unsuitable for subsurface sewage waste disposal (see attached map). The soils shown as provisionally suitable will adequately function as sewage waste disposal sites. You should expect that 45 to 85 feet of chamber drainline would be required for the initial system per bedroom in the home.

Included within the provisionally suitable soil area, are areas in which modified or alternative systems can be utilized. The soils here are limited in usable depth to the extent that systems that can be installed ultra shallow will likely be required (white flags). This requirement will necessitate the addition of approximately 6 inches of topsoil to completely cover the system. It is likely that ultra shallow conventional type systems can be utilized at this site when limited soil depths are observed but you should expect that 85 to 150 feet of chamber drainline would be required for the initial system per bedroom in the home.

The unsuitable soil area is so rated due to inadequate soil depth to excessive soil wetness conditions and/or unsuitable landscape position. The ability to utilize alternative systems or make modifications to this area to allow for septic systems is minimal.

It appears that the soils in Area 1 may be adequate to support the septic disposal needs of a four bedroom home but would require the use of a pump to move the effluent up-hill to the drainfield. The home could not be sited such that it consumes large amounts of the usable soil area. The soils in Area 2 appear adequate to support the septic disposal needs of several residences with multiple home siting options.

I appreciate the opportunity to provide this service and trust that you will feel free to call on me again in the future. If you have any questions or need additional information, please contact me at your convenience.




Sincerely,

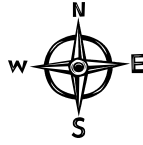
A handwritten signature in black ink that reads "Hal Owen". The signature is written in a cursive, flowing style.

Hal Owen
Licensed Soil Scientist



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Scale 1 in = 200 ft

Distances are paced
and approximate

Soil Map



Soil Map Legend

	Provisionally Suitable Soils
	Unsuitable Soils

