

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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13 December 2022

Lee Smith  
540 Farabow Drive  
Holly Springs, NC 27540

Reference: Preliminary Soil Investigation

4311 Cokesbury Road; PIN 0625-72-7138.000

~~492 Parker Creek Road; PIN 0625-63-9473.000~~

Dear Mr. Smith,

Site investigations have been conducted for the property at 492 Parker Creek and portions of the property located on the western side of Cokesbury Road (SR 1403) 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.

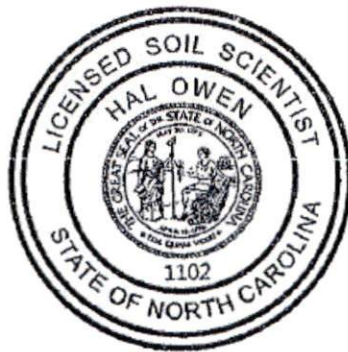
A portion of these properties were observed to be underlain by a mixture of soils that range from provisionally suitable to unsuitable for subsurface sewage waste disposal (see attached map). The soils shown as provisionally suitable will adequately function as sewage waste disposal. You should expect that 80 to 100 feet of chamber drainline would be required for the initial system per bedroom in the home.

Located 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. 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 100 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. Septic systems that utilize pumps to chamber drainlines can be used if you wish to site your house in the unsuitable soil area.

It appears that the small area of provisionally suitable soils on the Parker Creek Road property is not adequate to support the septic system needs of a home. However, a home could be sited on this lot and effluent from the residence would have to be pumped to an area with usable soils for septic systems. Such an area was observed and is shown just south of this lot on the attached map.

The soils underlying the investigated portion of the property on Cokesbury Road appear adequate to support the subsurface sewage waste disposal needs of at least one residence. 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 cursive script that reads "Hal Owen".

Hal Owen  
Licensed Soil Scientist

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Soil Map

*Soil Map Legend*

-  Provisionally Suitable Soils
-  Unsuitable Soils
-  Potential Stream



Scale 1 in = 400 ft



*Distances are paced  
and approximate*

