# HAL OWEN & ASSOCIATES, INC.

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19 April 2018

Mr. Aaron Thomas

Reference: Preliminary Soil Investigation
NCPIN 0557-15-6499

Dear Mr. Thomas,

A site investigation has been conducted for the above referenced property, located on the southern side of McNeill-Hobbs Road 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 found to be underlain by provisionally suitable soils types for subsurface sewage waste disposal (see attached map). The soils shown as provisionally suitable for modified or alternative systems are limited in soil 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 400 - 500 feet of conventional drainline would be required for the initial system of a three-bedroom home.

The soil areas shown as provisionally suitable for innovative or experimental systems are limited in soil depth to the extent that pretreatment and/or subsurface drip systems will be required. These are significantly expensive systems and are suggested to be used only for future repairs that may be needed.

The unsuitable soil area is so rated due to excessive soil wetness. The ability to utilize alternative systems or make modifications to this area to allow for septic systems is minimal.

It appears that the investigated portion of the property can support ultra shallow conventional initial systems for two residences. Pumps will likely be required to deliver the sewage effluent from the homes to the higher elevations of the usable soil areas. Repair areas may require special considerations such as drip and/or pre-treatment.

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,

Hal Owen
Licensed Soil Scientist

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*Soil Map*


*Soil Map Legend*

- Provisionally Suitable Soils For Modified or Alternative Systems
- Provisionally Suitable Soils For Modified or Alternative Systems
- Unsuitable Soils

Scale 1 in = 300 ft

*Distances are paced and approximate*

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