

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington, NC 27546-0400

Phone (910) 893-8743 / Fax (910) 893-3594

[www.halowensoil.com](http://www.halowensoil.com)

---

6 April 2023

Greg Stewart

Reference: Preliminary Soil Investigation

Moore's Chapel Rd (PIN: 0518-78-4623), (PIN: 0518-78-5528)

Dear Mr. Stewart,

A site investigation has been conducted for the above referenced properties, located on the southern side of Moore's Chapel Road, Harnett County, North Carolina. The purpose of this investigation was to determine the ability of each lot 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.

Both lots were observed to be underlain by a mixture of provisionally suitable soils for subsurface sewage waste disposal (see attached map). The soils shown as provisionally suitable will adequately function as sewage waste disposal sites but will require additional drainline due to clayey textured subsoil characteristics. You should expect that 80 to 100 feet of chamber drainline would be required for the initial system per bedroom in the home.

The soils showed 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 100 to 150 feet of chamber drainline would be required for the initial system per bedroom in the home.

The soils shown as provisionally suitable for low profile chamber systems are limited in soil depth to the extent that low profile chamber type drainlines installed ultra shallow will likely be required. Due to ultra shallow trench depths, the addition of approximately 6 inches of topsoil will be necessary to completely cover the system. You should expect that 115 to 160 feet of low profile chamber drainlines would be required for the initial system per bedroom in the home.

It appears that the soils on each lot will adequately support the septic needs of a 3 or 4-bedroom home. An area of more marginal soils, rated as provisionally suitable for low profile chamber systems, was observed near the middle of the lots. It would be in your best interest to utilize this area by siting your houses near or on top of the low-profile area as it would maximize the higher quality soils for your septic systems.

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

Preliminary Soil Investigation  
Moores Chapel Rd (PIN: 0518-78-4623), (PIN: 0518-78-5528)  
6 April 2023




Soil Map

*Soil Map Legend*

-  Provisionally Suitable Soils
-  Provisionally Suitable for Modified Systems
-  Provisionally Suitable for Low Profile Chamber

Scale 1 in = 100 ft



*Distances are paced  
and approximate*

