

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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5 December 2022

Pablo Sanchez

Reference: Comprehensive Soil Investigation
Minor Subdivision for Pablo Sanchez, Lots 1-5

Dear Mr. Sanchez,

A site investigation has been conducted for the above referenced properties, located on the eastern side of McDonald Road (SR 1294) in Harnett County, North Carolina. The purpose of this investigation was to determine each lot's ability to support a subsurface sewage waste disposal system and repair area for a three- or four-bedroom residence. 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.

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 and will support long term application rates of 0.35 to 0.5 gal/day/ft². 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 shown as provisionally suitable for modified or alternative systems 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. You should expect that 100 to 130 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 systems are limited in usable depth to the extent that systems utilizing low profile chambers will likely be required. This will necessitate the addition of approximately 6 inches of native topsoil to completely cover the system. You should expect that 130 to 160 feet of low profile chamber drainline would be required for the initial system per bedroom in the home.

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The soils indicated as provisionally suitable soils for drip systems are limited in soil depth to the extent that subsurface drip dispersal systems will be required. These type systems are significantly more expensive and are intended only for use as repair areas.

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 on each of these proposed lots are adequate to support the subsurface sewage waste disposal needs of a four-bedroom residence. This report should allow the county to approve the maps for recordation. 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

Preliminary Soil Investigation
 Minor Subdivision For Pablo Sanchez
 5 December 2022

Soil Map Legend

-  Provisionally Suitable Soils
-  Provisionally Suitable for Modified or Alternative Systems
-  Provisionally Suitable for Low Profile Systems
-  Provisionally Suitable for Drip Systems
-  Unsuitable Soils

Scale 1 in = 200 ft



Map for reference only. Not a survey.

