

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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22 November 2024

Patrick Whitetree

Reference: Soil Investigation

Thompson Road; PIN 0547-72-8713

Dear Mr. Whitetree,

A site investigation has been conducted for the above referenced property, located on the eastern side of Thompson Road (SR 2036) in Harnett County, North Carolina. The purpose of this investigation was to determine the site's ability to support subsurface wastewater dispersal systems. This report and map are intended for planning purposes only and not for lot recordation.

All sewage disposal ratings and determinations were made in accordance with the Rules for "Wastewater Treatment and Dispersal Systems", 15A NCAC 18E. 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 application for an approved wastewater system shall be made to the Local Health Department that specifies the proposed building size and location and the design and location of the wastewater system to be installed.

The soils were evaluated under moist soil conditions through the advancing of auger borings. This evaluation included observations of topography and landscape position, soil morphology (texture, structure, clay mineralogy, organics), soil wetness, soil depth, and restrictive horizons. Soil units shown on the attached map represent dominant soil types with similar profiles but may include minor components of contrasting soil types.

The soils shown as suitable on the attached map are adequate to support subsurface wastewater dispersal system. You should expect that 55 to 65 feet of accepted status (25% reduction) drainline would be required for the initial system per bedroom in any proposed residence.

The soils shown as suitable for modified 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 six inches of approved soil to completely cover the system. You should expect that 75 to 85 feet of accepted status (25% reduction) drainline would be required for the initial system per bedroom in any proposed residence.

The soils shown as suitable for low profile chamber systems are limited in soil depth to the extent that low profile chamber type drainlines installed at-grade will likely be required. Due to ultra shallow trench depths, the addition of approximately six inches of approved soil will be necessary to completely cover the system. You should expect that 115 to 135 feet of low-profile chamber drainlines would be required for the initial system per bedroom in any proposed residence.

The soils indicated as suitable soils for drip systems are limited in soil depth to the extent that subsurface drip dispersal systems will be required. Additional soil testing and pretreatment filters will also likely be required. Pretreatment and drip systems are significantly more expensive and are recommended only for use as repair areas.

The unsuitable soil area is so rated due to inadequate depth to soil wetness conditions. The potential to modify these areas to allow for subsurface wastewater dispersal systems is severely limited. Additionally, there is a 50-foot buffer from a stream located in the northeast corner of the property.

The soils underlying this property appear adequate to support the subsurface wastewater dispersal system needs of a four-bedroom 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,

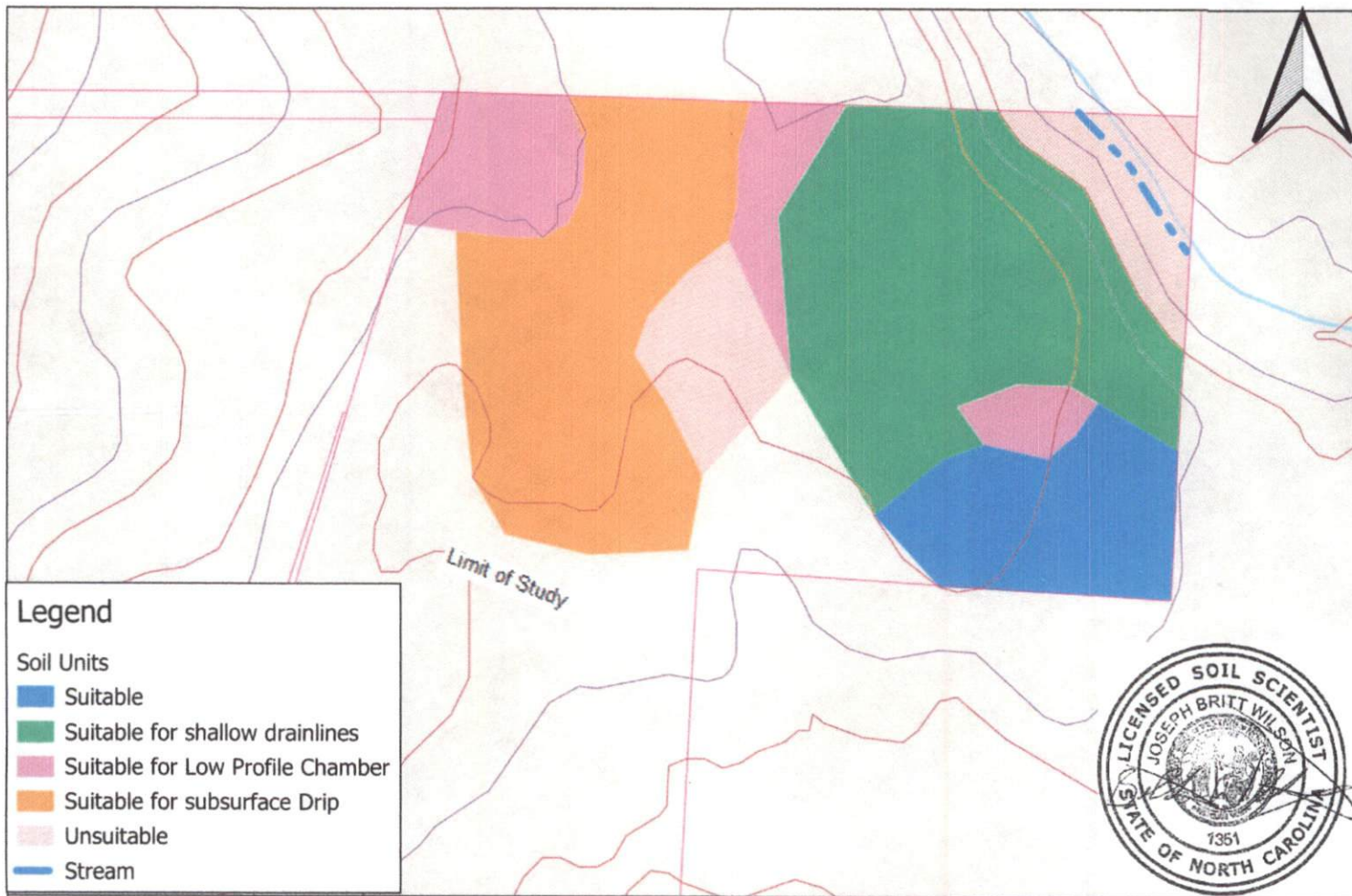


Jacoby Kerr  
Soil Associate II



Britt Wilson  
Licensed Soil Scientist





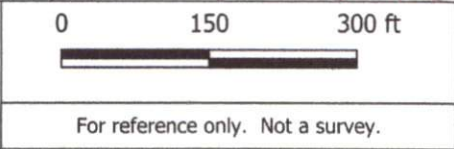
**Legend**

Soil Units

- Suitable
- Suitable for shallow drainlines
- Suitable for Low Profile Chamber
- Suitable for subsurface Drip
- Unsuitable
- Stream



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Thompson Rd  
 Harnett County  
 20 November 2024

Soil Map for Septic Suitability