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

18 April 2023

Pawel Bialoglowy

Reference: Preliminary Soil Investigation
Bethel Baptist Road; PIN 0534-47-6430

Dear Mr. Bialoglowy,

A site investigation has been conducted for the above referenced property, located on the northern side of Bethel Baptist Road (S.R. 2048) 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.

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. Due to clayey textured subsoil characteristics, you should expect that 60 to 75 feet of chamber type drainline would be required for the initial system per bedroom in the home. Inclusions of soils that rate as provisionally suitable for modified or alternative systems were observed within this unit. Systems that can be installed ultra shallow will likely be required, necessitating that approximately six inches of native backfill be added to completely cover the system.

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 six inches of native backfill 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 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. Some of this area will likely support building foundations, and a home could be sited in this area. Due to the limited size of the usable soil area, it is recommended that the home be sited in the unsuitable soil area so that the usable soil areas are left available for septic disposal.

The soils underlying this property appear adequate to support the subsurface sewage waste disposal needs of a typical two-bedroom residence. A three-bedroom residence may be possible but will likely require that the repair septic system use horizontal permeable panel block type drainlines which are considerably more expensive than conventional chamber drainlines. The placement of the residence and driveway will need to be done mindfully in order to maximize the amount of provisionally suitable soil for septic disposal. 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,

Britt Wilson
Soil Associate III

Hal Owen
Licensed Soil Scientist

Preliminary Soil Investigation
Bethel Baptist Road; PIN 0534-47-6430
18 April 2023

Soil Map