

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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6 June 2023

Lily Grimme

Reference: Preliminary Soil Investigation

Tract 4 Yuling Negley Map #2023-31, PIN 0663-12-2943

Tract 5 Yuling Negley Map #2023-31, PIN 0663-02-7791

Tylerstone Drive, Fuquay Varina, NC

Dear Mrs. Grimme,

A site investigation has been conducted for a portion of the above referenced properties, located on an access easement from Tylerstone Drive in the Black River Township of 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.

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. Soils in the investigated portions of the site were observed to 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 about 75 feet of chamber drainline would be required for the initial system per bedroom in the home. A repair area of equal size is required to be kept in reserve should the initial system ever fail. The band of provisionally suitable soil observed along the northern property line was observed to have firm clay textures and you should expect that 100 feet of chamber drainline 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 homes could be sited in this area. Septic systems that utilize pumps to conventional drainlines are recommended if you wish to locate homes on unsuitable soils and attempt to maximize the usable portion of the property.

A stream crosses Lot 5 which will hinder development. The referenced regulations require a 50ft setback from a septic system to a surface water. In addition, the stream is regulated under the Clean Water Act, and a §404 permit from USACE and a matching §401 water quality certification (WQC) from the North Carolina Division of Water Resources (NCDWR) would be required for any activity that impacts it, such as a driveway crossing.

It appears that the soils on these properties are adequate to support the septic disposal needs of a five-bedroom home and a second residence with one bedroom.

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 "Britt Wilson".

Britt Wilson
Soil Associate III




A handwritten signature in black ink that reads "Hal Owen".

Hal Owen
Licensed Soil Scientist


Preliminary Soil Investigation
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Tylerstone Drive, Fuquay Varina, NC
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SOIL MAP

Soil Map Legend

	Provisionally Suitable Soils
	Unsuitable Soils
	Stream (approximate)

Scale 1 in = 200 ft



*Map for reference only.
Distances are paced and
approximate. Not a survey.*

