

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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29 March 2024

Buddy Jenkins

Reference: Preliminary Soil Investigation

Flat Branch Fire Department; PIN 0536-48-7346

Dear Mr. Jenkins,

A site investigation has been conducted for the above referenced property, located on the southern side of Elliott Bridge Road (SR 2045) of Harnett County, North Carolina. The purpose of this investigation was to determine the site's ability to support subsurface sewage waste disposal systems and make recommendations concerning the fire department's septic needs after the addition of an administrative building. 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.

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 units shown on the attached map represent dominant soil types with similar profiles but may include minor components of contrasting soil types.

The site has an existing system that appeared to be functioning properly at the time of the investigation. It seemed to be composed of three drainlines, each about 160 feet long.

The soils indicated as suitable 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. There appeared to be enough area to 100% repair the existing system, should it fail.

The unsuitable soil area is so rated due to inadequate soil depth to excessive soil wetness conditions and/or unsuitable landscape position. The current regulations will not permit subsurface wastewater systems to be installed in areas rated as unsuitable.

It is our opinion that as long as the current daily flow for the fire department does not increase, the facility can continue using the existing septic system without adjustments. There are currently six employees, four working eight-hour day shifts and two working 24-hour shifts. If these conditions remain, an increase in the daily flow is unlikely.

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 "Britt Wilson".



Britt Wilson  
Licensed Soil Scientist

Preliminary Soil Investigation  
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**SOIL MAP**

*Soil Map Legend*

	Suitable for Drip
	Unsuitable

Scale 1 in = 150 ft



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

