

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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16 August 2019

Ms. Sandy Frankum

Reference: Preliminary Soil Investigation

171 Dauphine Street; Lot #62 Blk 7 Captains Landing; NC PIN 0613-64-5109

191 Dauphine Street; Lot #61 Blk 7 Captains Landing; NC PIN 0613-64-4123

Dear Ms. Frankum,

A site investigation has been conducted for the above referenced properties, located on the southern side of Dauphine Street in the Buckhorn 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". It is our understanding that you intend to combine the lots and use them as one entity and that public water will be utilized at this site. 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. Property lines were not marked at the site and the attached map is approximate.

A portion of the site was observed to be underlain by soils that are rated as provisionally suitable for subsurface sewage waste disposal (see attached map). These provisionally suitable soils were observed to be firm clays and clay loams to greater than 20 inches and will support long term acceptance rates of 0.3 gal/day/sqft. In other words, you should expect that about 100 to 133 feet of conventional drainline would be required for each bedroom in a proposed home. It appears that the soils on these lots, combined together, are adequate to support a conventional septic system and repair area for a three bedroom residence. This is a grandfathered lot due to the distant recordation time and therefore a repair area is not required but does appear to be available at the site. Some soil borings exhibited saprolite materials greater than twenty inches below ground surface. The referenced rules require that saprolite materials be evaluated with the aid of a soil pit. The health department may require that you provide a backhoe and dig pits when you apply for your septic system permit.

The unsuitable soil area is so rated due to inadequate soil depth and erosional features. The ability to utilize alternative systems or make modifications to this area to allow for septic systems is minimal.

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

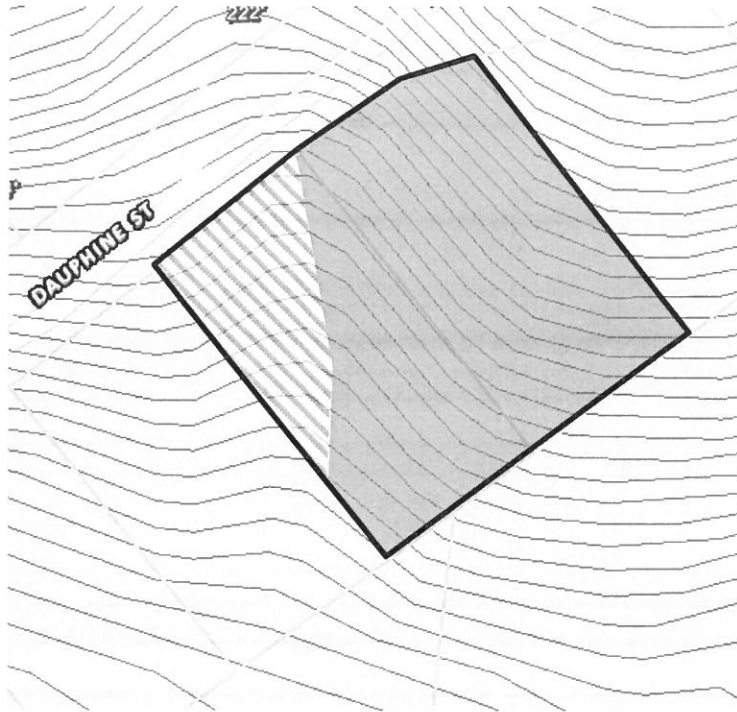
Preliminary Soil Investigation

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

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62 August 2019


Soil Map



Soil Map Legend

	Provisionally Suitable Soils
	Unsuitable Soils

Scale 1 in = 100 ft



*Distances are paced
and approximate.
Not a survey.*

