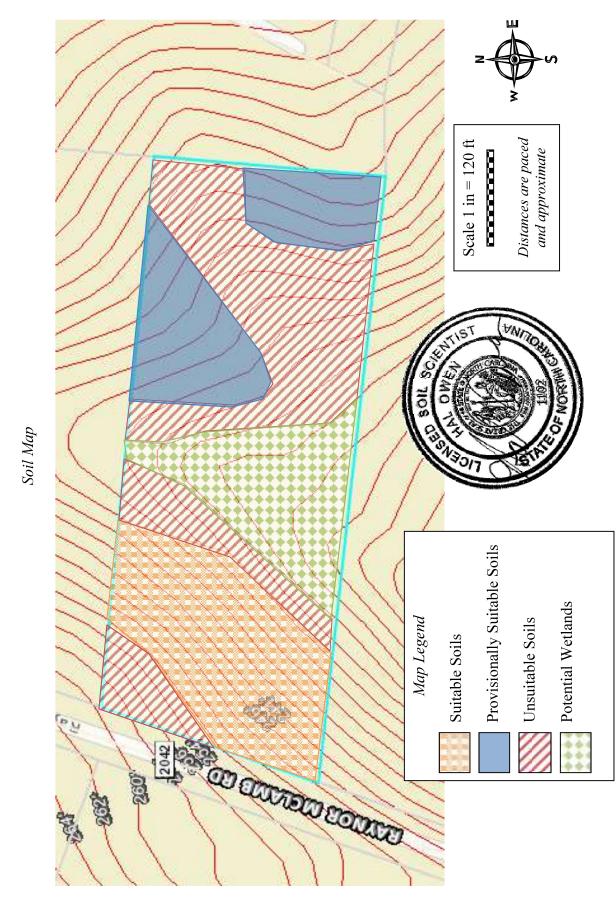


Preliminary Soil Investigation Raynor McLamb Road; PIN 0556-02-0329 5 August 2020



Soil Science Investigations • Wetland Delineations, Permitting, and Consulting

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5 August 2020

Ms. Asia Tunstall

Reference: Preliminary Soil Investigation

Raynor McLamb Road; PIN 0556-02-0329

Dear Ms. Tunstall,

A site investigation has been conducted for the above referenced property, located on the eastern side of Raynor McLamb Road (SR 2042) in the Stewarts Creek 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.

This property was observed to be underlain by a mixture of soils that range from suitable to unsuitable for subsurface sewage waste disposal (see attached map). The soils shown as suitable on the attached map are excellent for residential purposes. You should expect that 50 to 70 feet of conventional drainline would be required for the initial system per bedroom in the home. Lots can be designed that contain as little as 15,000 square feet in areas dominated by suitable soils and serviced by public or community water supplies.

The soils shown as provisionally suitable will adequately function as sewage waste disposal sites but will require additional drainline due to clayey textured subsoil characteristics. You should expect that 80 to 100 feet of conventional drainline would be required for the initial system per bedroom in the home. It is recommended that lots be designed to contain at least 20,000 square feet in areas dominated by provisionally suitable soils and serviced by public or community water supplies.

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 where not too wet. Utilization of pump type conventional systems will allow unsuitable soils to make up part of the lot area. However, it is necessary that at least 10,000 square feet of usable soil be incorporated into each lot in such a way that it will be completely available for waste disposal.

The unsuitable soil area includes a low, wet, valley containing a stream and/or wetlands. Current environmental regulations require a Clean Water Act §404 permit from the US Army Corps of Engineers and a matching §401 water quality certification from the NC Division of Water Resources for any activity that impacts jurisdictional waters; which includes filling, draining, and mechanized land clearing of the area. It is encouraged that you use care and good judgment when working in or around wetland areas. Additional information about regulatory requirements and permitting can be provided at your request.

It appears that this property is capable of supporting four lots, each with four bedroom homes. A wetland permit will likely be needed to place a driveway across the drainageway in order to access the rear half of the property if you chose to subdivide the land in the back. If you use it for only one residence (or two on one lot) and do not need to build a road to county road standards, you can likely use the existing road, with some minor modification.

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.

Hal Owen

Licensed Soil Scientist