

Southeastern Soil & Environmental Associates, Inc.

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June 30, 2004

Ms. Carolyn Dorman
205 Pineview Drive
Erwin, N.C. 28339

Re: Preliminary soil evaluation, \pm 35 acre tract, NCSR 1703, Harnett County, North Carolina

Dear Ms. Dorman,

A preliminary soils investigation has been completed for the above referenced tract. The property is located on the south side of NCSR 1703 as shown on the accompanying map. The purpose of the investigation was to determine the extent of soil areas that have the ability to support subsurface waste disposal systems for a proposed residential subdivision. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

Southeastern Soil and Environmental Associates, Inc. (SSEA) performed these soil evaluations in June, 2004. SSEA traversed the property and observed landforms (slope, drainage patterns, etc.) as well as soil conditions through the use of hand auger borings and/or soil probes. From these observations and aerial photography the boundaries between usable and unusable soils has been **estimated** on the accompanying map (scale 1" = 200').

Three distinct soil patterns were observed in the field evaluations. They are described as follow:

Area "A": This area is dominated by soils that are provisionally suitable for subsurface waste disposal systems **(with the exception of minor drainageways that are too small to delineate at this scale)**. Typically, these soils exhibited 6 or more inches of loamy sand underlain by clays or sandy clays to depths of 30 or more inches.

requirements for lot density, system type, lot size and/or configuration would be made to meet current regulatory criteria.

It is imperative that these individual lot evaluations be completed so that necessary changes can be made to lot lines (if necessary) before map recordation.

This report, of course, does not guarantee, constitute or imply any approval, or issuance of permit, as needed by the client from the local health department. Such approval is dependent on individual lot evaluations made after individual lots are staked in the field by the local health department. Because of the extreme variability of these soils, SSEA does not guarantee that permitting agencies will agree with these findings (nor permit the intended use).

Southeastern Soil and Environmental Associates, Inc. is pleased to be of service in this matter. We look forward to assisting in additional site analysis needs you may have in the future. Please feel free to call with any questions.

Sincerely,

Mike Eaker

Mike Eaker
President



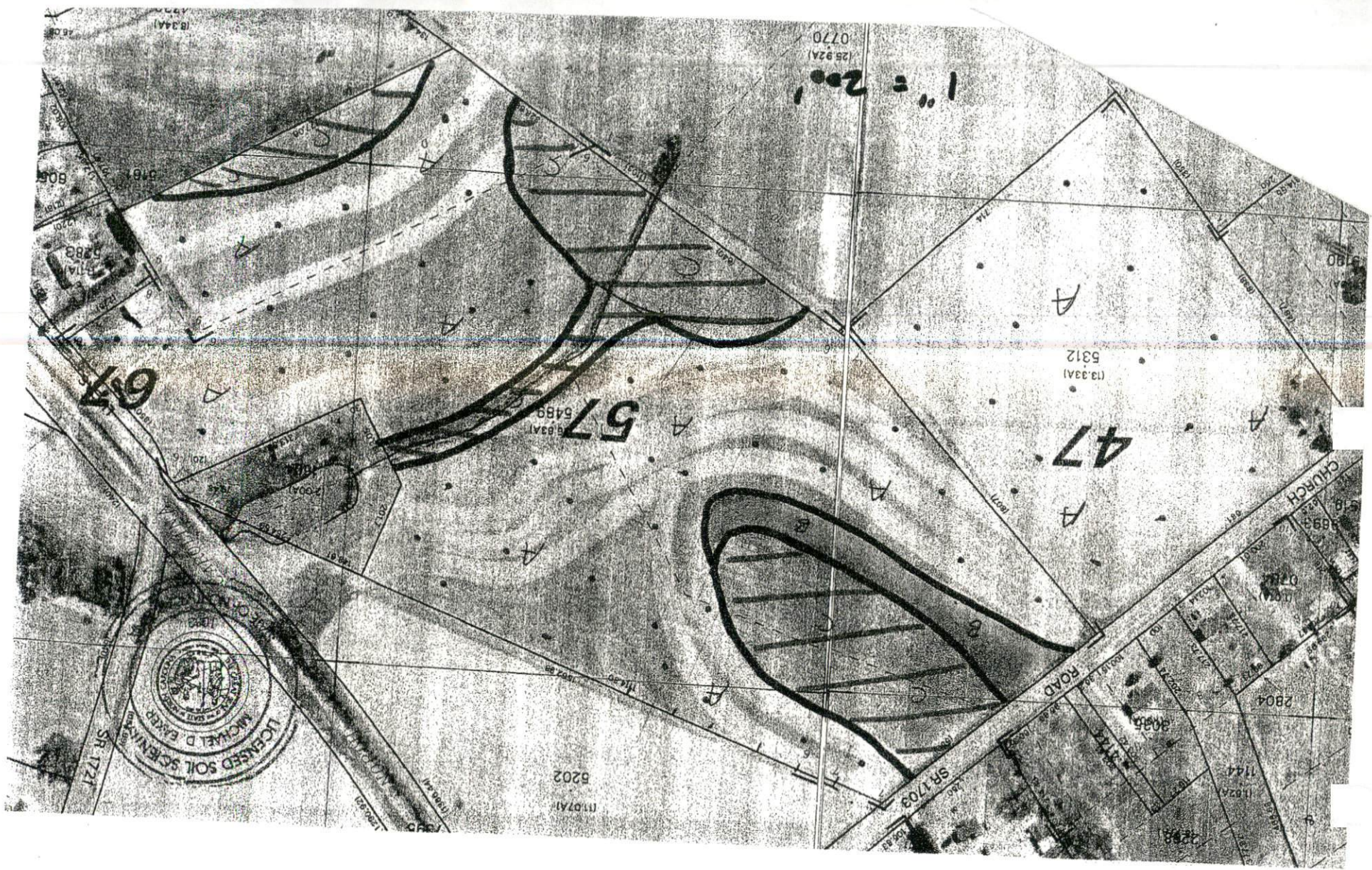
Soil wetness, depth, and mineralogy were typically suitable to depths of at least 24 inches. A 3 bedroom home would require approximately 12,000 sq. ft. of this soil area for drainfields and repair areas (exclusive of setbacks from wells, lot lines, houses, etc.). A 4 bedroom home would require approximately 16,000 sq. ft. of this soil area. (Note: These square footage recommendations assume appropriate topography for a practical septic system layout on topographical contour.)

Area "B": Soils in these areas are similar in nature to those of area "A" with the exception of soil depth to wetness (18 - 24 inches). Because of this shallow depth, these areas may be subjected to alternative system types including but not limited to, fill (.1957b), low pressure pipe (LPP), sand/peat filter, etc. Approximately 20,000 square feet (3 bedroom) of this soil area must be included with each lot exclusive of setbacks (25,000 for 4 bedroom).

Area "C": Soils in these areas are dominantly unsuitable for subsurface waste disposal due to poor topography, soil wetness [colors of chroma 2 (or less) that are less than 12 inches from the soil surface] and/or expansive clay mineralogy. Some of these areas may contain "section 404" wetlands. These soils are not capable of modification under current regulatory criteria.

[Note: Any site grading or soil removal in these suitable or provisionally suitable areas may alter the findings of this report and render sites unusable.]

Because individual lots were not staked at the time of evaluation, this report does not address lot(s). This report is to be used as a guide for likely subdivision/lot design based on useable soils. **It is imperative that additional soil work be completed once centerlines or rough lot lines can be established, so that unsuitable soil areas can be accurately determined and located (they may change significantly from the original suitability map) prior to lot recordation.** Additional soil borings/testing will be required at the time that proposed individual lots are staked on the ground to determine that each lot contains adequate soils that have the ability to assimilate waste under current rules. Based on these individual lot evaluations, additional



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