

Alex Reese
1329 Lombard St. Apt. 311
Philadelphia, PA 19147

DocuSigned by:
Orange Castle
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July 10, 2023

RE: Preliminary soil/site suitability evaluation performed on a 0.76 acre tract on WH McLean Ln. in Harnett County, NC.

A preliminary soil/site suitability evaluation was performed on the above mentioned tract on July 8, 2023 at your request to determine areas of usable soils and favorable site conditions that have potential for subsurface wastewater treatment and disposal systems. The tract was traversed and observations were made of land forms (slopes, drainage patterns, past use, etc.) as well as soil conditions (depth, texture, structure, seasonal wetness, restrictive features, etc.) through the use of hand auger borings. This site was evaluated during slightly moist to dry soil conditions. The criteria used is that contained in 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems".

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FINDINGS: This preliminary soil/site suitability evaluation confirmed a good potential for a single family residence. There is a high level of confidence that this tract will support the installation of a subsurface conventional septic system. This tract is located in the edge of the Sand Hills Region of Harnett County, NC. The usable soils on this tract are similar to the Ailey soil series and they are considered provisionally suitable for subsurface conventional septic systems with 24 to 30 plus inches of usable soil material. The usable textures of loamy sand to sandy clay loam will have a LTAR range of 0.4 to 0.7 gallons per square foot per day. The size of a subsurface drain field is determined by the: 1; the design flow from the source (120 gallons per bedroom per day in residences) and 2; the long term acceptance rate (LTAR) of the soil which is based on the hydraulic conductivity of the soil which is a function of the soil's texture, mineralogy, structure, and porosity. Since this tract is an old field with small saplings, then any potential house site with usable soils should remain undisturbed by heavy equipment until authorized by the local health department and determined to be the site for the septic system drainfield and repair. An additional consideration in the overall design of the drain field is the required setbacks from various elements such as wells (50ft.), streams and ponds (50ft.), property lines (10ft.), etc.

This report discusses the general location of potentially usable soils and favorable site conditions for on-site subsurface wastewater treatment and disposal systems and does not constitute or imply any approval or permit as needed by the client from the local health department.

I was hired for my professional and experienced knowledge in these matters.

Sincerely,

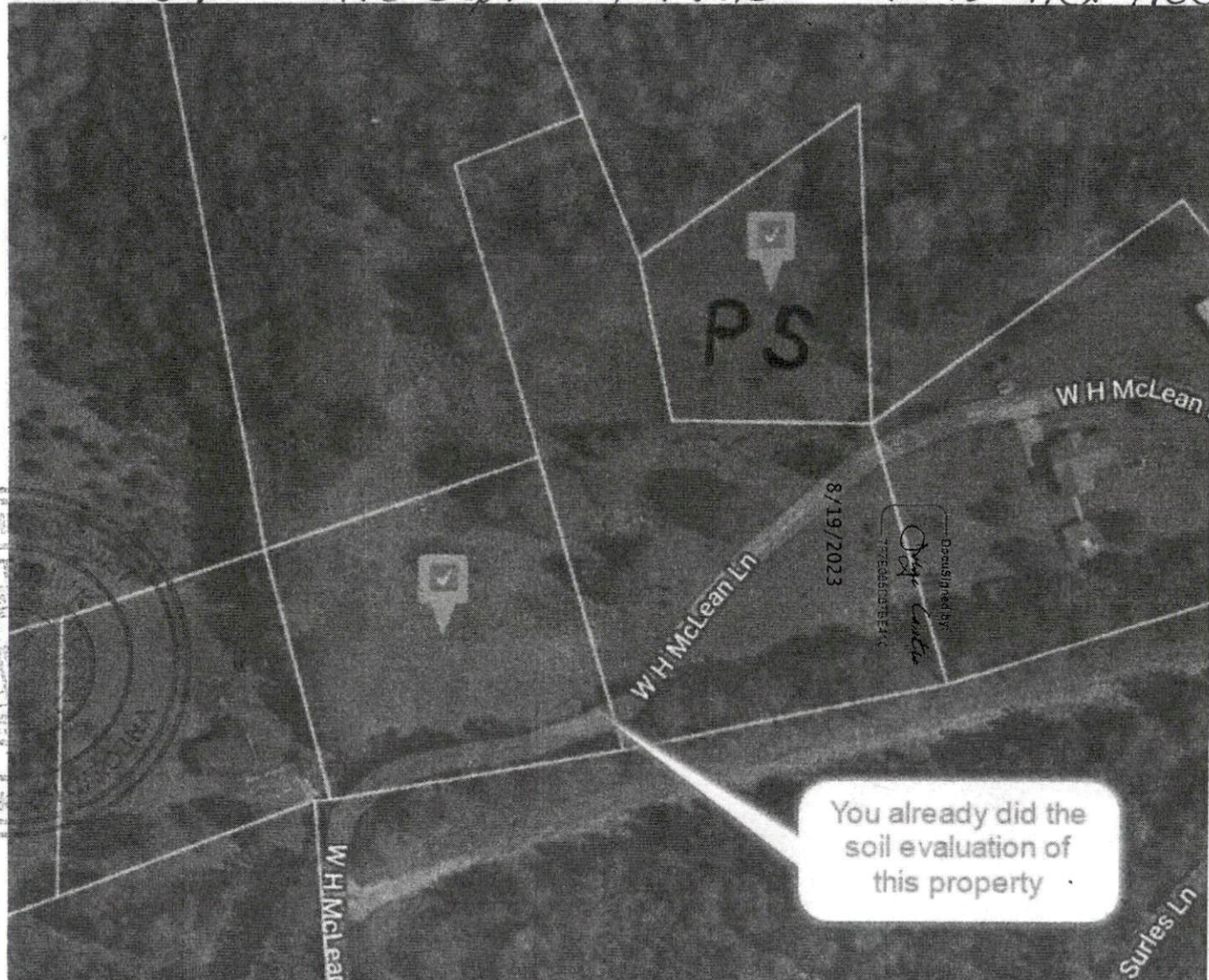
Larry T. Sink

Larry T. Sink
NC Licensed Soil Scientist #1054
Soils sketch map included



Preliminary Soil/Site Suitability Evaluation Sketch Map on a 0.76 acre Tract on W.H. McLean Ln. in Harnett County, NC. / PS - Provisionally Suitable Soils and Favorable Site Conditions for Subsurface Septic Systems FOR: Alex Reese

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You already did the soil evaluation of this property

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