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Project Number: 22-0143

Date: 12/6/2022

**Jim Surane**

Attn: *Jim Surane*

Email: [jurane@suranelawpllc.com](mailto:jurane@suranelawpllc.com)

**Re: Preliminary Soil Evaluation for 11700 McCoy Road, Huntersville, NC 28078,  
Mecklenburg County. Property Consists of 4 Parcels (see Soil Notes for PID's).**

Dear Jim,

Soil & Forestry Services of the Carolinas, PA performed a Preliminary Soil Evaluation on the above mentioned properties in Mecklenburg County, NC. The purpose of the evaluation was to determine usable soil areas for onsite wastewater systems. The evaluation was performed on October 3<sup>rd</sup> & November 22<sup>nd</sup>, 2022.

The findings from our evaluation are illustrated on the attached Soil Map. Soil boring locations and usable soil boundary were located via GPS. This data was imported into Mecklenburg County Tax Parcel Data with topography and utilized to produce the *Soil Map*.

**Soil/Site Suitability**

Six soil borings (P1 – P6) were performed to determine the overall soil suitability for an onsite wastewater system installation. Pits 3 - 5 were found to be provisionally suitable for Innovative Drip Irrigation subsurface wastewater systems. Recommended LTAR is 0.1gpd/ft<sup>2</sup>. The square footage requirement for this type system will be based on the proposed facility and final flow requirement from the Health Department. **We recommend that you contact a Professional Engineer to assist you with any septic design and flow calculations for the proposed facility. This property is very limited on available space of usable soil. Soils are shallow to either soil wetness or expansive/mixed mineralogy clay. Advanced pretreatment will likely be required by the Engineer. Facility placement, driveway, and well (if needed) should be sited to preserve sufficient available space of usable soil. A survey should be performed to determine property boundaries. The lot was not surveyed at the time of the evaluation.**

Soil & Forestry Services of the Carolinas, PA appreciates your business and looks forward to working with you in the future. Please let us know if you need any further assistance or have questions in regards to this project.

Thank you

S. Ashley Rollans

NC Licensed Soil Scientist #1231

**See Attached:** *Soil Map*