

Preliminary Soil Mapping Report

Summit Development Company –
Whittaker Pkwy

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Site Location and Characteristics

The project site is located in the Orangeburg area of Orangeburg County, South Carolina. The project area totals approximately 12 acres in size. However, not all of the site was reviewed, as a portion of the property is likely to be identified as wetland. The reviewed areas consist of varying topography, consisting of various marine terraces typical of the Coastal Plain. The soil characteristics discussed below in this report reflect the general nature of the geographic features and conditions of the project site.

Soil Sampling Methodology

Preliminary soil testing locations were identified prior to the initiation of field work. These points were identified by using Light Detection and Ranging (LiDAR) models. These models displayed elevation variability across the project site that assisted in selecting appropriate soil testing locations. In total, 7 soil borings were obtained to complete the preliminary soil mapping for the project site. Soil characteristics such as depth to the seasonally high zone of soil saturation (ZOS), most limiting soil texture within the upper 18 inches of the soil profile, and long-term acceptance rate (LTAR) were recorded. These characteristics are all components of soil analysis for determination of soil suitability for septic system design.

Furthermore, site geography was reviewed in conjunction with this data to develop an overall soil map of the project site. The soil mapping reflects soils of identifiable soil series and probability of engineered vs. non-engineered systems as a result of the observed soil characteristics and/or site history. It is important to note that due to limitations of the preliminary soil mapping, inclusions of soil conditions requiring engineered septic systems may be present within mapped non-engineered septic areas, and vice versa. This information is captured and reflected in the column “Non-Engineered Probability” below in Table 2. Acreage analysis of suitability for engineered and non-engineered septic systems is calculated below in Table 2 as well. The findings and results of the soil borings and subsequent mapping analysis are outlined below. The corresponding project site and soil mapping exhibits can be found in Appendix A.

Soil Testing Data and Mapping Analysis

Table 1. Project Site Soil Boring Data

Soil Boring ID	Estimated ZOS (in inches)	Limiting Soil Texture Class in Upper 18 inches	Estimated LTAR
TP-1	45+	1	0.7
TP-2	24	1	0.7
TP-3	45+	1	0.1
TP-4	27	1	0.7
TP-5	33	1	0.7
TP-6	45+	1	0.7

TP-7	45+	1	0.7
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Table 2. Project Site Soil Mapping Summary

Estimated Soil Series	Engineered vs. Non-Engineered	Suitable for Largescale Septic (>1500 gpd)	Acreage of Mapped Area
Bonneau	Non-Engineered	Yes	3.38 acres
Blanton	Non-Engineered	No	2.63 acres

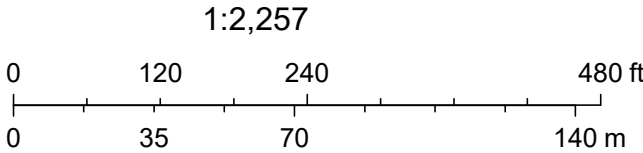
Appendix A

Summit Development Co - Whittaker Pkwy - Preliminary Soil Borings



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- Project_Area_4301
- Soil_Data_Quick_Capture_2726
- Evaluation Complete



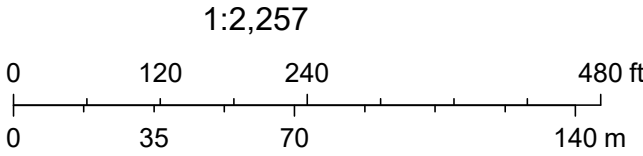
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- Project_Area_4301
- Soil_Mapping_8998
- Non-Engineered



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