



Soil & Environmental Consultants, Inc.

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Austin Family Properties, LLC
Attn: Steve Young
5003 A Falls of Neuse Rd
Raleigh, NC 27609

June 24, 2024
S&EC Job #16100.S1

Re: Flood Hazard Soils Report – 500, 502, and 506 Brent Rd, Raleigh, NC

On June 20, 2024 Soil and Environmental Consultants, Inc. (S&EC) performed a detailed flood hazard soils evaluation on the property referenced above per your request as part of the preliminary planning process.

The Wake County Planning Department uses transparent photographically enlarged maps (3 to 4 times the scale of maps as printed) of the published 1970 USDA NRCS Wake County Soil Survey to alert them to alluvial soils (flood hazard areas), which are subject to flooding and have severe limitations for certain development purposes including building sites, well locations etc. This introduces distortion of soil boundaries in valleys of small streams. In the process, the linear extent and width of the “flood hazard soil” areas can become greatly exaggerated, especially at the head of drainageways and/or large floodplains. In the Wake County Unified Development Ordinance specifies the steps necessary for a soil scientist to modify flood hazard areas.

Prior to the field investigation, flood hazard soil areas within the project boundaries were identified per Wake County GIS as mapped by the Wake County Soil Survey (November 1970). The following Wake County flood hazard soil units are mapped within the project boundaries:

<i>Soil Map Unit</i>	<i>Soil Type</i>
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Field investigation revealed all soils on site should be classified as Urban Land and no flood hazard soils were observed on this property. The soils on the property consist of fill material that have been graded and sloped, likely during construction of the existing structures on this site. No soil profile descriptions were conducted as all areas on site were observed to be Urban Land. Photos of the present conditions observed on site during the evaluation are enclosed in this report.

Based on our field investigation, few areas are incorrectly identified as containing flood hazard soils and conversely there are few areas incorrectly identified as having upland soils that have flood hazard soils. These soils have been reclassified to Urban Land. The findings presented in this report reflect the professional opinion of S&EC based on our site and soil evaluation.

Please contact S&EC if you have any questions or require further information.

Sincerely,
Soil & Environmental Consultants, PA

John Lewis
NC Licensed Soil Scientist #1345

Enclosed: Site Photos

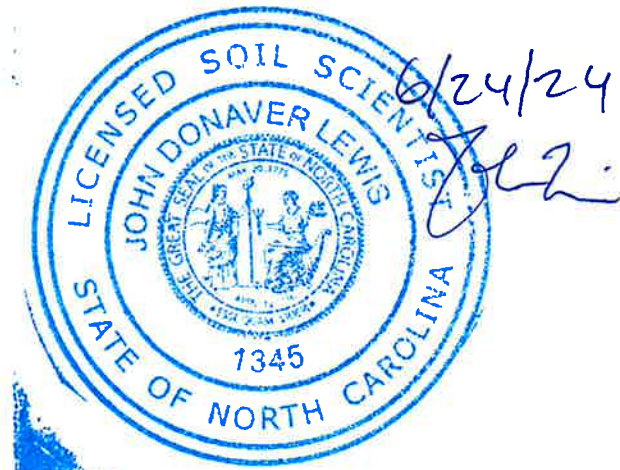




Photo 1: Brent Road at intersection with Gorman Street



Photo 2: Fill slope behind 500 and 502 Brent Rd



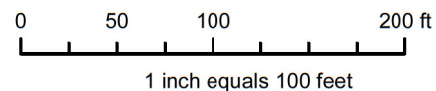
Photo 3: View of 506 Brent Rd and adjacent yard



Photo 4: Backyard of 506 Brent Rd and Bushy Creek. Hand auger borings in this area revealed no indicators of flood hazard soils.



500, 502, and 506 Brent Rd



Disclaimer
iMaps makes every effort to produce and publish the most current and accurate information possible. However, the maps are produced for information purposes, and are **NOT** surveys. No warranties, expressed or implied, are provided for the data therein, its use, or its interpretation.