

**Adams Soil Consulting**  
**1676 Mitchell Road**  
**Angier, NC 27501**  
**919-414-6761**

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August 19, 2022  
Project #1111

Duncans Creek Development Group, LLC  
1611 Jones Franklin Road  
Suite 101  
Raleigh, NC 27606

RE: Final soil/site evaluation for Phase I and Phase II of the Duncan's Creek subdivision (Lots #1-22 and 104-174) located adjacent to Old US 421 in Harnett County.

Mr. Thompson,

Adams Soil Consulting (ASC) conducted a final soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems".

The above referenced parcel is located in the upper Coastal Plain soil region of Harnett County. The soils have formed from marine parent material. The accompanying map indicates the areas of provisionally suitable vs. unsuitable soils.

Lots #1-22 and 104-174 on the proposed subdivision have potentially suitable soils that may support single family home sites serviced by onsite waste water disposal systems (septic). The soils on the property are predominately provisionally suitable to a depth of 30 inches below the existing soil surface. There may inclusions of soils with 24-30 inches of provisionally suitable soils. A long-term acceptance rate of 0.3-0.6 gallons/day/ft<sup>2</sup> is suggested for proposed lots in this subdivision. Each of the proposed lots was determined to contain 15,000 ft<sup>2</sup> or more of provisionally suitable soils. An exact house location and house foot print cannot be specified, but all the lots could potentially accommodate homes with a foot print of 50' X 50' and 3-bedrooms or more.

The lots may require septic systems utilizing pumps, shallow or ultra-shallow conventional trench placement, low pressure pipe systems, and/or reductions systems for final approval. Any of the lots may require a site plan or design to be developed before a final improvement permit is issued by Harnett County. An exact homesite location, house foot print, or bedroom count cannot be guaranteed at this time.

This report discusses the location of suitable soils for subsurface wastewater disposal systems and does not guarantee any permits or approval required by the local health department. Adams Soil Consulting is a professional consulting firm specializing in soil delineations and design for on-site wastewater disposal systems. The rules governing on-site wastewater disposal systems are complex and the interpretation of the rules are based upon the interpretations of regulators (state and county level). Due to the subjective nature of the permitting process and the

variability of naturally occurring soils, ASC cannot guarantee that areas delineated as suitable for on-site wastewater disposal systems will be permitted by the governing agencies. The report is based on the soil conditions existing at the time of evaluation, any soil disturbing activities (grading, filling, etc.) could potentially render a lot unsuitable. These permitting considerations should be taken into account before a financial commitment is made on an individual lot.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime. Thank you allowing me to perform this site evaluation for you.

Sincerely,



Alex Adams  
NC Licensed Soil Scientist #1247

