

**Adams Soil Consulting
1676 Mitchell Road
Angier, NC 27501
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September 21, 2022
Project #1420

Gioia Palmieri
1005 Lamond Ave,
Durham, NC 27701

RE: Preliminary soil/site evaluation for Lots 1 & 2- of the minor subdivision for Gioia Palmieri located adjacent to 1205 Old Coats Road in Harnett County, NC.

Ms. Palmieri,

Adams Soil Consulting (ASC) conducted a preliminary 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". From this evaluation, ASC sketched the boundary between the suitable soils and unsuitable soils onto preliminary plat map of the property supplied by your surveyor. The provisionally suitable soils shown on the accompanying soil map are suitable for conventional and accepted status type septic systems.

At the time of evaluation Lot #1 contained an existing residential home serviced by a gravity septic system. There was no evidence of past or current septic system failure. The existing systems will apparently be completely located within the new property lines and meet all current setbacks. Additionally, approximately 10,000 ft² of provisionally suitable soil was identified that could be utilized for a repair septic system should a repair be required in the future was identified. Lot 2 was vacant with no indications of previous structures on the property. Greater than 18,000 ft² of provisionally suitable soil was located on parcel "2" that could potentially support a conventional or accepted status type septic system as well as a repair septic area for a new homesite. A new home footprint of at least 50' x 50' should be able to be located on lot B-1. The provisionally suitable soil found should support a daily loading rate ranging from 0.3-0.6 gallons/ft²/day. Lot #2 could potentially accommodate a 4-bedroom septic system, but a detailed site plan and design will be required for final approval.

The specific septic system and loading rates for the lots will be permitted by the Harnett County Health Department. The areas for the proposed septic fields shall not be impacted by home sites, pools, garages and shall not be mechanically altered from the natural lay of the land.