

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

November 22, 2023
Project #1811

Arlene Mabry

RE: Preliminary soil/site evaluation for Lot #2 located adjacent to 6363 NC 55 W in Angier for the minor subdivision for in Harnett County, NC.

Ms. Mabry,

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 Benton W. Dewar and Associates, Professional Land Surveyor. The suitable soils shown on the accompanying soil map are suitable for conventional type septic systems.

At the time of evaluation, the proposed residual parcel contained an existing single-family home serviced by a gravity septic system. The existing septic system showed no signs of failure and will be completely within the newly proposed property lines and meet all required setbacks. More than 7,000 ft² of provisionally suitable soil was identified that could be used for a repair septic system should a repair be required in the future. The new Lot #2 contained approximately 10,000 ft² of provisionally suitable soil. The provisionally suitable soils found on this property consist of a sandy loam, sandy clay, or clay subsoils that can support a daily loading rate of 0.3-0.4 gallons/day/ft². Due to the limited amount of provisionally suitable soil a preliminary septic design was completed showing a concept of what may be possible for the newly proposed home. The attached drawing does not represent a final septic permit.

The specific septic system and loading rates for the lot will be permitted by the Harnett County Health Department. The areas for any proposed repair field shall not be impacted by construction activities shall not be mechanically altered from the natural lay of the land.

The lot will require a detailed soils evaluation by the Harnett County Health Department prior to issuance of any permits for a septic system. A septic system design/ layout may be required before a permit can be issued on the above

referenced lot demonstrating available space for the repair septic areas. I can offer these services if requested. Due to the subjective nature of the permitting process and the variability of naturally occurring soils, Adams Soil Consulting cannot guarantee that areas delineated as suitable for on-site wastewater disposal systems will be permitted by the governing agency. The lot may require a septic system utilizing pumps, shallow or ultra-shallow conventional trench placement, low pressure pipe system, and/or reductions system for final approval. The accompanying soil map is preliminary in nature, no further assumptions or subdivision should be made without a more detailed evaluation.

Thank you for allowing me to perform this service for you. Please let me know if you have any questions regarding this report or the accompanying soil map.

Sincerely,



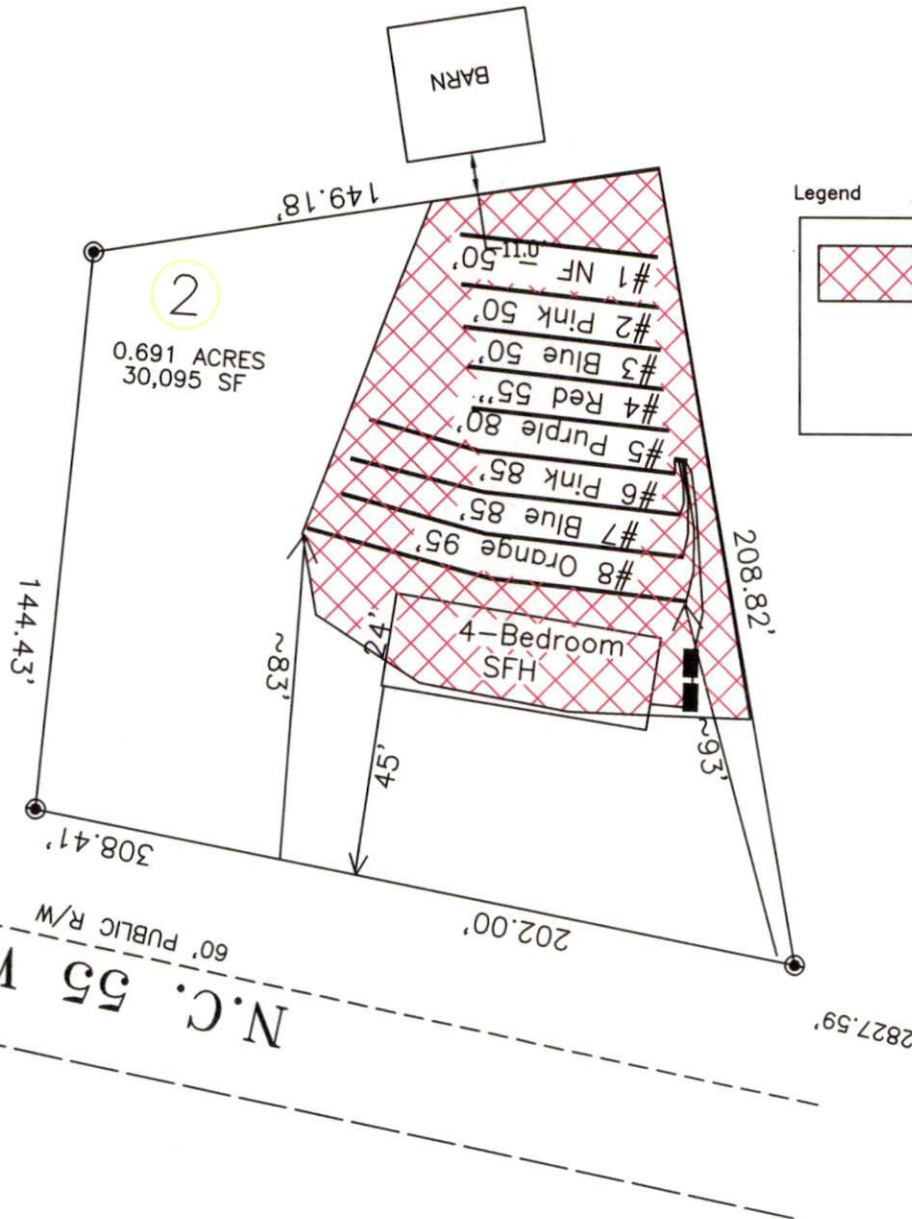
Alex Adams
NC Licensed Soil Scientist #1247
Encl: Soil Map



Mabry

4-Bedroom Septic Proposal

Lot #2 Hwy 55 - Harnett County



Legend

 Areas contain soils with 30 inches or more of useable material and have potential for conventional, modified conventional, LPP or ultra-shallow conventional septic systems. There may be inclusion of soils 24-29 inches to a restrictive horizon that will have potential for LPP septic systems.

System: Pressure Manifold
 Lines: 4-9, (400')
 0.4 LTAR
 21" Trench Bottom
 Accepted Status System
 Repair: Pressure Manifold
 Lines: 1-4 (205')
 0.4 LTAR
 21" Trench Bottom
 T&J Panel - 50% Reduction

N.C. 55 W.
 60' PUBLIC R/W

GRAPHIC SCALE
 1" = 50'



Adams
 Soil Consulting
 919-414-6761
 Job #1811
 11-14-23