



4114 Laurel Ridge Drive
Raleigh, North Carolina 27612

Protocol Sampling Service, Inc.
"Experts in Environmental Compliance"
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April 1, 2024

Mr. Joe Turner
Howard Hannah Real Estate Services
Email: familymanjt@gmail.com

Re: **Soil Inspection**
0 Lee Street (2.75 Acres)
Jarvisburg, Currituck County, North Carolina
Protocol Job No. 24-55

Dear Mr. Turner:

On Wednesday March 27, 2024 Protocol Sampling Service, Inc. personnel inspected the referenced lot for suitability for an on-site waste water disposal system to serve a residential structure.

The lot is rectangular in shape, lies to the west of Lee Street and adjacent to the North River in Jarvisburg, North Carolina. The lot is undulating in shape, contains Jurisdictional Wetlands with a slight southwestern slope towards the North River. The seasonal high-water table was found at 17 inches below land surface (bls) and the static water table depth was found at 28-inches bls in the eastern portion of the lot adjacent to the end of Briggs Street; the most likely system location area with an estimated average elevation of 4.0-feet msl. A well sorted fine sand was found to extend to at least 48-inches below grade with no restrictive layer present. The North River provides ground water control for the surrounding area.

The lot was not found to be suitable for a conventional on-site waste water disposal system, but can be considered suitable for a fill (bed) system. Prior to installing the drain lines on the eastern portion of the lot outside of all appropriate setbacks, in an area approximately 40' wide x 100' long (GIS Map – attached), the existing soil should be scarified prior to adding clean beach sand that closely replicates the existing subsurface (Type I) soils and brought to a finished height of two-feet above existing grade. The long-term acceptance rate (LTAR) for the system which will be installed over the well-sorted fine sand should not exceed 0.6 gallons-per-day-per-square-foot (gpd/ft²).

An engineered plan should be formulated prior to applying for the septic permit including a survey with the official wetland delineation line show. A residential fill permit should be pursued to ensure there is enough of the provisionally suitable soil outside of the wetland area for a waste water disposal system to be installed and to place the desired house footprint on the lot.

Please call me at (919) 210-6547 if you have any questions.

David E. Meyer, N.C.L.S.S.
Soil Scientist/President



Soil Profile Description
0 Lee Street – Profile 1

- Ap1 0 – 17 inches; light brownish gray (10YR 6/2) fine sand; single grained; loose.
- C1 17 – 36 inches; grayish brown (10YR 5/2) fine sand with strong brown (7.5YR 5/6) concentrations; single grained; loose.
- C2 36 – 48 inches; gray (10YR 6/1) fine sand; single grained; loose.

Soil Series: Wando - shallow
Landscape: Coastal Plain
Landform: terrace
Parent Material: Marine sediments
Drainage Class: somewhat poorly drained
Particle Size Class: sandy
Temperature Regime: thermic
Subgroup Classification: Udipsamments
Examination Method: auger boring
Date: March 27, 2024
Weather: Overcast, 55°
Investigators: David Meyer
Shwt: 17”
Measured water table depth: 28”

PROVISIONALLY SUITABLE SOIL AREA (SEPTIC)
(40' x 100')



Parcel ID Number: 011000001730000

Map Date: February 21, 2024

Property Address: JARVISBURG LEE ST

27947

Property Owner: HUNDLEY, KIMBERLY CROSSETT
CROSSETT, DAVID ALAN

This map should be used for general reference purposes only. Currituck County assumes no legal liability for the information shown on this map. This map is not a survey.

