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**May 25, 2023**

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**7 Tiverton Ln.**  
**Bella Vista, AR. 72715**

Soil Morphology testing results

Date performed: **May 24, 2023**

Address or Location performed: **Strichen Dr.**

County: **Benton**

Parcel # and acreage: **16-01177-000, 0.32 acres**

GPS coordinates: **36 28' 36" N 94 20' 26" W**

Legal description: **Lot 25, Block 2, Aberdeen, Section 25, T-21-N, R-32-W**

Results:

Pit 1

**>36" to Bedrock**

**There was a Moderate Seasonal Water Table at 26".**

**The loading rate for this pit is 0.57 gal/sq. ft./day.**

**A three-bedroom home would need 395' of lateral line**

**A two-bedroom home would need 265' of lateral line.**

**A one-bedroom home would need 135' of lateral line.**

*\*Due to the size of the lot, and the amount of line needed, it is likely that only a one or two-bedroom home would be supported.\**

Explanation

Soils cannot have bedrock within 36" of the ground surface for standard type leach field to be approved.  
The soils on this lot were not found to have bedrock within 36"

A moderate water table is defined as the following and more restrictive:

- Any chroma 2 iron depletions on soil surfaces
- 50% or > Chroma 3 iron depletions on soil surfaces
- 35-49% clay

Loading rate:

Loading rates for soils start a .75 gal/sq. ft. being the highest attainable number.

This means the higher the loading rate the better the soil test and the less amount of line you need. The lower the number the less suitable the soil test is and the more lateral line you need.

The number of lateral lines needed is based on the # of Bedrooms or # of persons for commercial. The number of bathrooms does not matter.

#### Topography

Lateral field lines, also known as leach field lines, are required to be designed on contour. Meaning they are the same ground elevation at the beginning middle and ends of the lines.

#### Septic systems must maintain the following setbacks:

100' from a well, or a body of water.

10' from property lines, structures, and buried utilities

\*Lateral lines must be installed in undisturbed soil. No soil can be removed from or deposited in the leach field area.

#### Conclusion

Our conclusion is that the soil in the pit observed on the property is suitable for a standard type individual sewage disposal system. This is our opinion of the soil's suitability. The information above will have to be reviewed by the Arkansas Department of Health and verified on site before any permit or approval for the use of these soils for an individual sewage disposal system can be granted. The soil in other areas of the property could be more or less suitable.

Every effort is made to locate the pit within the boundaries of the lot, however, if the lot has not been surveyed it is sometimes difficult to establish exactly where the correct boundaries of the lot are, especially when there are no developed properties nearby. It is necessary that the owner inspect the property to verify that the test was done on the appropriate lot.

The Arkansas Department of Health will want to see a recently dug test pit on the property at the time of approval. If this test pit has been filled in, or if the pit has been left open for more than a few months then the pit will need to be cleaned out as they will cave in over a period of time and get filled with rain, leaves, and debris.

\*Please note this is not a guarantee that the house and individual sewage disposal system will fit on the lot. Because of the lot size, topography, house size and location, no system can be assumed approved until a permit has been signed from the Arkansas Department of Health.

This document is intended only for the use of the person to whom it is addressed.

If you have any questions about any of the information within this report, please call or email me for further explanation. We appreciate your business!

Sincerely,

*Mark Corbitt*

Mark & Rebecca Corbitt, Licensed Designated Representative  
Corbitt Environmental Consulting