

Corbitt Environmental Consulting

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October 19, 2023

Benton County Realty

c/o Larry Boling

2011 St. Ave.

SW Gravette, AR.

Soil Morphology testing results

Date performed: **October 18, 2023**

Address or Location performed: **N Mt. Pleasant Rd.**

County: **Benton**

Parcel # and acreage: **11-00002-742, 3.02 acres**

Legal description: **Tract #2, Section 3, T-20-N, R-32-W**

Results:

Pit 1

>36" to Bedrock

There was a Moderate Seasonal Water Table at 21".

The loading rate for this pit is 0.36 gal/sq. ft./day.

A four-bedroom home would need 625' of lateral line.

A three-bedroom home would need 515' of lateral line.

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 at .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.

Lateral lines must maintain the following setbacks:

10' from property lines, structures, and buried utilities

50' from a pond on the same parcel

100' from a pond on an adjoining parcel, well, creek, stream, spring, etc.

Conclusion

Our conclusion is that the soil in the pit observed on the property is suitable for a standard type individual sewage disposal system. 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.

For a septic system permit to be approved on this property another suitable location will need to be found since properties are required to have a second suitable location referred to as "alternate area". This is required so that if the system ever malfunctions in the future there is a second location for the lines to be installed. Holes are dug specific to actual primary and alternate leach field locations at the time the design is done on site.

Please note, lateral lines must go in natural undisturbed soil and outside of areas that have been cut or filled. Lateral lines are also typically not approved on slopes of 45% or more or in areas where water flows such as a ravines or a drainage.

*Please note this is not a guarantee that the house and individual sewage disposal system will fit on the lot. Only that the soil is suitable for a standard type of system and the amount of lateral line needed. 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 & Rebecca Corbitt, Licensed Designated Representative
Corbitt Environmental Consulting