

# EARTHSEARCH SOIL CONSULTING, LLC

---

2000 Mallory Ln.  
Suite 130-306  
Franklin, TN 37067  
(615) 210-5523

04 / 26 / 2022

To whom it may concern,

This letter is to verify that a preliminary soil evaluation was performed at 1724 Joe Pope Rd in Williamson County. The soil on this tract was evaluated for subsurface sewage disposal possibilities. Three areas of suitable soil were located on the property.

The soil marked in yellow and orange in the image below was identified as the Hawthorne series with an estimated absorption rate of 45-60 minutes per inch. Each area appeared to be about 15,000 sqft. Depending on final soil mapping results, each area should be adequate for a 4-5 bedroom septic disposal area. These areas will need to be cleaned up with a bush hog or a forestry mulcher prior to gridstaking. These areas may require an excavator during the mapping phase due to marginal accessibility and rocky soil.

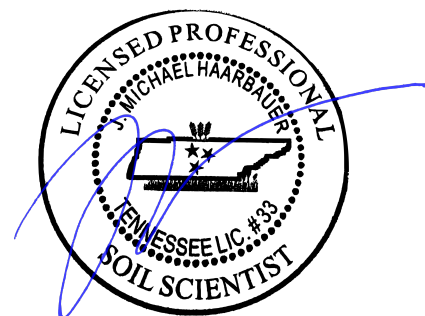
The soil marked in pink in the image below was identified as the Dellrose series with an estimated absorption rate of 45-60 minutes per inch. The area appeared to be about 15,000 sqft. Depending on final soil mapping results, the area should be adequate for a 4-5 bedroom septic disposal area.

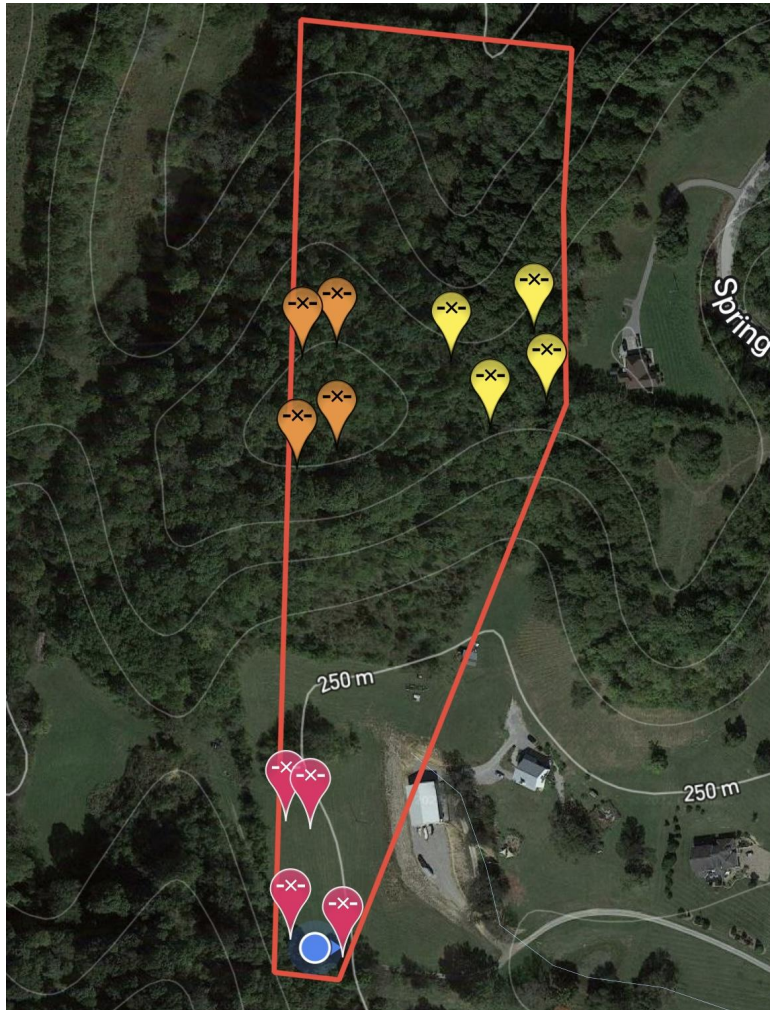
Dellrose is a colluvial soil, which is considered suitable by Williamson County Septic Department regulations. Due to recent changes in the understanding of existing regulation, this soil may not be deemed usable in the process of applying for a building permit by Williamson County.

The approximate area is shown on the satellite image provided and is marked with orange pin flags and/or orange survey ribbon onsite. **These findings are based on a preliminary evaluation only. In Williamson County, an extra high intensity soil mapping, property line and easement locations will be required for final approvals. Only the Williamson County Department of Sewage Disposal has the authority to determine the number of bedrooms and system approvals.** For any questions please contact me at 615-210-5523.

Sincerely,

J. Michael Haarbauer





**SURVEYOR NOTE:** Grid stakes should extend at least 50 feet beyond the area(s) marked in the image(s) above. If, at the time of grid staking, the area(s) needs to be mowed, bush hogged, forestry mulched, or otherwise maintained please inform the customer immediately.

## Site Preparation and Maintenance

Soil mapping can only be completed when the site has been adequately prepared and the physical features of the land can be seen. This means that if the site is in pasture or open land, it must be at least bush hogged (mowing is preferable). If the site is wooded, it must be clear of underbrush (anything less than 2" in diameter) enough to see clearly 50-75 feet in any direction. We will only be able to evaluate the areas that we can see clearly. Since the surveyor is going to be applying grid stakes at least 50 feet beyond the area marked during the preliminary soil evaluation, you will need to mow/clear/clean at least 50 feet beyond the area marked during the preliminary soil evaluation **before the surveyor arrives.**

The type of equipment that you use is important. Mowers, bush hogs, forestry mulchers (on rubber tracks only), string trimmers, and anything else that does not disturb the topsoil are acceptable and have a low risk of creating disturbance on a site. Pulling stumps, bulldozers, anything on metal tracks, or any other process that disturbs more than two inches of the topsoil could easily cause enough damage to make a site unusable. Again, this work needs to be completed before the surveyor arrives.

This area must stay mowed/cleared/clean until you have an approved soil map by the Williamson County Department of Sewage Disposal. If a property is not clear enough to be evaluated, rescheduling may be required (which could result in a delay of weeks or months) and a fee will be charged.

More information with pictures can be found at:

[www.earthsearchllc.com/site-prep](http://www.earthsearchllc.com/site-prep)

**SURVEYOR NOTE:** Grid stakes should extend at least 50 feet beyond the area(s) marked in the image(s) above. If, at the time of grid staking, the area(s) needs to be mowed, bush hogged, forestry mulched, or otherwise maintained please inform the customer immediately.

## Hiring a Surveyor for Soil Work in Williamson County, TN

The regulations of the Williamson County Department of Sewage Disposal are unlike anywhere else in the state of Tennessee. Due to this, there are only a few surveyors that have the experience to complete your project in a timely manner. If you would like a recommendation for a surveyor, I would be happy to point you to those who know the Williamson County Septic Department

If there is a surveyor that has done work on the property in the past that knows how to work with the Williamson County Department of Sewage Disposal, it may be best to stay with that surveyor. It could save you time and money because some of the work may already be done, whereas if you switch surveyors, it would need to be re-done in order for the project to move forward.

If a boundary survey has not been done, one will be required.

You will provide the Preliminary Soil Evaluation report to the surveyor and then the surveyor and the soil scientist will work together to get the map approved by the Williamson County Department of Sewage Disposal. Any clearing/mowing/cleaning must be done before the surveyor arrives on site to do the gridstaking. The surveyor should grid at least 50 feet beyond the preliminary flags to give the best chance at mapping enough soil to meet your needs.

The surveyor will need to provide the following to the soil scientist:

- 3 paper copies of the survey
- PDF copy of the map identical to the paper copies.
- Field run slope analysis of the gridded area. One paper copy and an identical PDF.

The following things need to be located by the surveyor and shown on the survey:

- Overhead utilities
- Underground utilities
- Existing septic systems
- Wells
- Structures (permanent and temporary)
- Driveways
- Roads
- 4x4 paths
- Fences
- Creeks
- Creek banks (measured from the highest part of the cut bank)

**SURVEYOR NOTE:** Grid stakes should extend at least 50 feet beyond the area(s) marked in the image(s) above. If, at the time of grid staking, the area(s) needs to be mowed, bush hogged, forestry mulched, or otherwise maintained please inform the customer immediately.