

Installation Area Soil Summary Report

GENERAL INFORMATION

Date January 17, 2006 Submitted to Madison County Health Department
Applican Graystone Homes Telephone (540) 825-1600
Address 1202 Orange Road, Culpeper, VA 22701
Owner Same Address Same
Location From Madison, Rt. 29 North, property is on right one half mile past intersection of Rt. 607 and Rt. 29.
Tax Map 40-79A & 41-9 Subdivision Carpenter's Ridge 10
Block/Sec. Lot 10, Site 10-M Installation, Upper 6 Lines: Conventional trench

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes No

Wooded Piedmont Sideslope

2. Slope 8-9 %

3. Depth to rock or impervious strata: Max. _____ Min. _____ None

4. Depth to seasonal water table (gray mottling or gray color) No Yes _____ inches

5. Free water present No Yes _____ range in inches

6. Soil percolation rate estimated Yes No Texture group HA/B
Estimated Rate 50

7. Permeability test performed Yes No

*All applicable regulations as well as the specific soil and site conditions (including the trench sidewalls) were taken into account when the estimated percolation rate was assigned.

If yes, note type of test performed and attach

Site Approved: Primary drainfield to be placed at 48 inch depth at site designated on permit.
If required, reserve drainfield to be placed at 24 inches as designated on

Site Disapproved

Reasons for rejection:

1. Position in landscape subject to flooding or periodic saturation.
2. Insufficient depth of suitable soil over hard rock.
3. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area
4. Rates of absorption too slow.
5. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area
6. Proposed system too close to well.
7. Other _____



(attach additional pages if necessary)

The information presented in this submittal package represents the best available information as of the evaluation date noted on the next page of this package. Due to the potential for subsequent events to negatively impact the recommendations made in this package, it is our firm's very strong recommendation to submit this documentation to the local health department for approval as soon as it is received by the client. Failure to do so may render the information contained in this package void. M & M Soil Consultants, Inc., as well as the certifying individual, accepts no liability for subsequent events that occur after the date of the evaluation.

Abbreviated Design Form (*Installation, Upper 6 Lines: Conventional trench*), Lot 10, Site 10-M

Design Basis

A. a. Estimated Percolation Rate (minutes per inch)	50
b. Recommended trench bottom (inches)	48
c. Depth to restrictive feature or to limit of evaluation (inches)	66
d. Minimum separation distance required (18 inches for conventional systems)	18
e. Separation distance in inches provided in design (Ac-Ab)	18
f. Minimum trench bottom due to slope in inches $[(\% \text{ slope} \cdot 8)/2 + (18)]$	18
g. Is the slope greater than 10%? (If no, go to line Ai; if yes, go to line Ah)	No
h. If slope is >10%, does 24 inches to a restriction exist below trench bottom in Ab?	n/a
i. Additional center-to-center spacing required in feet. (If no to Ag, insert 0. If yes to Ag and yes to Ah, insert 0 from 10 to 19% slope, insert 1 from 20 to 29% slope, insert 2 from 30 to 39% slope, insert 3 from 40 to 49% slope. If yes to Ag and no to Ah, insert 1 from 10 to 19% slope, insert 2 from 20 to 29% slope, insert 3 from 30 to 39% slope, insert 4 from 40 to 49% slope.)	0

B. Trench bottom sq. ft. required per bedroom from Table 5.4 using the gravity column. 376

C. Number of Bedrooms 4

Area Calculations

D. Length of trench (across slope) 90 feet

Length of available area (across slope) 90 feet

E. Width of trench 3 feet

F. Number of trenches 6

G. Center-to-center spacing 9 feet

H. a. Width required downslope $(G(F-1) + E)$ 48 feet

b. Total width of available area (includes area allocated for reserve) 111 feet

I. Total square footage required $(B * C)$ 1,504 sq. ft.

J. Square footage in design $(D * E * F)$ 1,620 sq. ft.

K. Is a reserve area required? Yes No

Percent required: 100

Percent available: 104.54



Notes: 104.54% reserve is available with the 7, 90' lines remaining in this area using a conventional trench system. To the best of our knowledge and belief, this site complies with all the local ordinances such as the CBPA. (Reserve area calculations are shown on a separate abbreviated design form later in this package.)

Site Sketch

Graystone Homes
Carpenter's Ridge, Lot 10
Madison County, Virginia

Scale: 1" = 100'
#: Profile Borings
☒: House Site
☒: Well Site
On & off site features noted
within 200 ft. of proposed
drainfield and well areas are
shown.

