

Auction Tract 1

SOIL SUMMARY REPORT

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General Information:

Date: April 7, 2005 Botetourt County Health Department

Applicant: _____

Telephone No. _____

Address: _____

Location: Off Route 220, in Gala, Va.

Subdivision: Property owned by Rose Land Company

Section: _____

Lot: Tract 4

Soil Information Summary:

Drain Field A LOCATED ON LOT Tract 4

Slope: 27 %

Depth to rock/impervious strata: Max. 23 Min. 19 None _____

Depth to seasonal water table: (gray mottling or gray color) No Yes _____ Inches

Free water present: No Yes _____ Range in Inches

Soil percolation rate estimated: Yes Texture group **III**

No Estimated rate 75 min/inch

Proposed Drainfield Drip Irrigation installed at 5 Inches Deep

Name and title of evaluator: Brian Anderson AOSE#180

SOIL EVALUATION FORM

Subdivision _____

Lot Tract 4Drain Field A

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	O	0-2	Organic Matter	
	Bt	2-29	7.5 YR 4/6 Clay Loam; fine roots	III
	Cr	29	Chert	
2	O	0-1	Organic Matter	
	Bt	1-19	7.5 YR 4/6 heavy Clay Loam; fine roots	III
	Cr	19	chert	
3	O	0-2	Organic Matter	
	Bt	2-23	7.5 YR 5/6 heavy Clay Loam	III
	Cr	23	Fine roots and chert	
4	O	0-1	Organic Matter	
	Bt	1-23	7.5 YR 5/6 heavy Clay Loam ; fine roots	III
	Cr	23	chert	
5	O	0-1	Organic Matter	
	Bt	1-23	7.5 YR 4/4 heavy Clay Loam; fine roots ; chert fragments @ 19"+	III

Remarks:

Abbreviated Design Form

“Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

Design Basis Subdivision _____ Lot Tract 4 D/F A

- A. Estimated Percolation Rate 75
- B. Trench bottom square feet
Required per bedroom
(from Table 4.6 based on Gravity LPD) 375 x 3 = 1125 ft²
- C. Number of Bedrooms 2

Area Calculations

- D. Length 70 ft. Length of available area 70 ft.
- E. Width of trench n/a ft.
- F. Number of trenches n/a
- G. Center-to-center spacing 2 ft.
- H. Width required 65 ft. Width of available area 85 ft.
- I. Total square footage required (BxC) 2250 x 1.5(Reserve) x 1.33(Slope) = 4488 ft²
- J. Square footage in design 70' x 65' = 4550ft²
- K. Is a reserve required? No Yes 1125 ft² at 5 Inches Deep
- L. Slope Type: Side Slope
- M. Effluent must be treated to advanced secondary standards prior to being dispersed