

**Auction Tract 4**

**SETEC**

**SOIL AND ENVIRONMENTAL TECHNOLOGY, INC**  
111 N. Franklin Street, Christiansburg, VA 24073  
Phone: 540-381-0309

**General Information**

Date: 8/14/02  
Applicant: John Atkinson  
Address: P.O. Box 10879, Southport, NC 28461  
Owner: Address:  
Location:  
Subdivision: Stone Ridge Phase I Lot: 17  
Telephone No: Health Department

**Soil Information Summary**

1. Position in landscape satisfactory Yes ☒ No Describe: Sideslope
2. Slope 10 %
3. Depth to rock\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 2  
Estimated rate 40 Min/inch
7. Percolation test performed Yes Number of percolation test holes  
No ☒ Depth of percolation test holes  
Average percolation rate

Name and title of evaluator: Charles Nelson\David Hall\Bill Evans Soil Scientist

Signature: *Charles Nelson*

**Department Use**

Site Approved: depth at site designated on permit.

Site Disapproved:

**Reason for rejection:**

- 1 Position in landscape subject to flooding or periodic saturation.
- 2 Insufficient depth of suitable soil over hard rock.
- 3 Insufficient depth of suitable soil over water table.
- 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 Specify:

Profile Description  
SOIL EVALUATION REPORT

Date of Evaluation: 8/14/02

Health Department  
Identification No.

x See application sketch

See construction permit

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Hole #	Horizon	Depth	Description	Texture Group
1	Ap	0-6	Dark Yellowish Brown (10YR 4/4) loam	2
	BA	6-16	Yellowish Brown (10YR 5/4) loam	2
	Bt1	16-36	Strong Brown (7.5YR 5/6) gravelly sandy clay loam; strong medium subangular blocky structure	2
	Bt2	36-50	Strong Brown (7.5YR 5/8) sandy clay loam; moderate medium subangular blocky structure	2
2	Ap	0-8	Dark Yellowish Brown (10YR 4/4) loam	2
	BA	8-20	Yellowish Brown (10YR 5/4) loam	2
	Bt	20-50	Strong Brown (7.5YR 5/8) sandy clay loam; moderate medium subangular blocky structure	2
3	Ap	0-6	Dark Yellowish Brown (10YR 4/4) loam	2
	BA	6-16	Yellowish Brown (10YR 5/4) loam	2
	Bt	16-55	Strong Brown (7.5YR 5/8) sandy clay loam; moderate medium subangular blocky structure	2

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# **DRAINFIELD RECOMMENDATIONS DESIGN BASIS & AREA CALCULATIONS**

Type of system	Gravity		
EPR	40	Reserve Area Required	NO
Slope %	10	Type of Reserve	N/A
# Bedrooms	4	Length of Reserve (feet)	N/A
Installed <24" from Rock or Other Impervious Strata	N/A	# Lines in Reserve	N/A
Area (Sq. ft.) required per bedroom	314	Square Footage in Reserve	N/A
Absorption Area Increase %	N/A	Backfilling Required	NO
Total Square ft. required (Main DF)	1256	Backfilling Depth (inches)	N/A
Line Length (feet)	75	Width required (Main DF)(ft.)	48
# Lines Installed	6	Width of Available Area (Main DF + Reserve) (ft.)	48
Installation Depth inches (into natural soil)	28 1/2 con	Length of Available Area (ft.)	75
Width of Trench (feet)	3	Square Footage in Design (Main DF + Reserve)	1350
Centers (feet)	9		

**Note:** Pump house on lot must be abandoned before installation of drainfield.