

**Auction Tract 7**

**SETEC**

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

**General Information**

Date: 8/19/02  
Applicant: John Atkinson  
Address: P.O. Box 10879 Southport, NC 28461  
Owner: Address:  
Location:  
Subdivision: Stone Ridge Phase I Lot: 30  
Health Department  
Telephone No:

**Soil Information Summary**

1. Position in landscape satisfactory Yes ☒ No Describe: Sideslope
2. Slope 28 %
3. Depth to rock\impervious strata: Max. >46" Min. 40" 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 45 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: 8/19/02

Health Department  
Identification No.

x See application sketch

See construction permit

Subdivision Stone Ridge

Lot: 30

Hole #	Horizon	Depth	Description	Texture Group
1	Ap	0-6	Brown (10YR 4/3) loam	2
	Bt	6-31	Yellowish Brown (10YR 5/8) loam	2
	C	31-42	Brownish Yellow (10YR 6/8) loam	2
	R	42	Hard Rock	
2	Ap	0-5	Brown (10YR 4/3) loam	2
	Bt	5-30	Yellowish Brown (10YR 5/8) loam	2
	C	30-46	Brownish Yellow (10YR 6/8) loam	2
3	Ap	0-7	Brown (10YR 4/3) loam	2
	Bt	7-31	Yellowish Brown (10YR 5/8) loam	2
	C	31-50	Strong Brown (7.5YR 5/8) silt loam	3
4	Ap	0-6	Dark Yellowish Brown (10YR 4/4) sandy loam	2
	Bt	6-28	Strong Brown (7.5YR 5/8) sandy loam	2
	C	28-40	Strong Brown (7.5YR 5/8) very gravelly sandy loam; 45% coarse fragments	2
	R	40	Hard Rock	

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**DRAINFIELD RECOMMENDATIONS  
DESIGN BASIS & AREA CALCULATIONS**

Type of system	Shallow Place, Gravity with Microfast 500 GPD		
EPR	45	Reserve Area Required	NO
Slope %	28	Type of Reserve	N/A
# Bedrooms	3	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	344	Square Footage in Reserve	N/A
Absorption Area Increase %	N/A	Backfilling Required	NO
Total Square ft. required (Main DF)	1032	Backfilling Depth (inches)	N/A
Line Length (feet)	70	Width required (Main DF)(ft.)	43
# Lines Installed	5	Width of Available Area (Main DF + Reserve) (ft.)	43
Installation Depth inches (into natural soil)	22	Length of Available Area (ft.)	70
Width of Trench (feet)	3	Square Footage in Design (Main DF + Reserve)	1050
Centers (feet)	10		

**Note:** Effluent must be treated before being released into the drainfield.