

### SOIL AND ENVIRONMENTAL TECHNOLOGY, INC 111 N. Franklin Street, Christiansburg, VA 24073

Phone: 540-381-0309

Add Ow	te: 8/29/( plicant: dress: mer: cation:	02 John Atkinson P.O. Box 10879 Sou				matio		elephon	ne No	:	lealth	ı Depa	artment
Subdivision:		Stone Ridge Phase I					Lo	ot:	33				
1. 2.		n landscape satisfacto	Soil I ry	nforn Yes	ation X	Sumn No	nary	Desc	ribe:	Sides	lope		
3.	•	30 % rock∖impervious strata	: M	lax.	50+"		Min.	29"	]	None			
4.	Depth to s	seasonal water table (g	gray mott	ling or	gray	color)	]	No		Yes	x	27	inches
5.	Free water	r present No	x Ye	s			ra	inge in	inche	es			
6.	Soil perco	lation rate estimated	Yes No	x		ire gro nated r		2 45			Min	/inch	
7.	Percolation	n test performed Y	es o x	Depth	ber of pe n of pe nge per	rcolati	on test	est holes	es				
			les Nelso	n/Dav	id Hal	l/Bill I	Evans			Soil S	cient	ist	
Signature: Charle Vileon													

Department Use

Site Approved:

depth at site designated on permit.

Site Disapproved:

### Reason for rejection:

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

8/29/02

Health Department Identification No.

x See application sketch

See construction permit

Subdivsion:	Stone Ridge	Lot:	33
			JJ

Hole #	Horizon	Depth	Description	Texture
1	Ap	0-10	Brown (10YR 4/3) loam	Group
	BA	10-17	Yellowish Brown (10YR 5/4) sandy clay loam	2
	Bt	17-27	Strong Brown (7.5YR 5/8) clay loam	2
	BC	27-36	Reddish Yellow (7.5YR 6/6) clay loam	3
	С	36-41	Brownish Yellow (10YR 6/6) sandy clay loam	3
			210 Whish Tellow (10 1 K 0/6) sandy clay loam	2
2	Ap	0-4	Dark Yellowish Brown (10YR 4/4) gravelly loam; 20% coarse fragments	2
	Bt	4-27	Yellowish Brown (10YR 5/8) sandy clay loam	2
	С	27-43	Brownish Yellow (10YR 6/8) clay loam; common Light	2 3
			Brownish Gray (10YR 6/2) mottles	3
3	Ap	0-10	Dark Yellowish Brown (10YR 4/4) gravelly loam; 20% coarse fragments	2
	BA	10-16	Brownish Yellow (10YR 6/6) loam	
	Bt	16-37	Yellowish Brown (10YR 5/8) sandy clay loam	2 2
	C	37-50	Brownish Yellow (10YR 6/6) clay loam; common Light	2
			Brownish Gray (10YR 6/2) mottles	3
4	Ap	0-6	Dark Yellowish Brown (10YR 4/4) gravelly loam; 15% coarse fragments	2
	Bw	6-29	Yellowish Brown (10YR 5/8) gravelly sandy clay loam: 250/	3
	R	29	coarse fragments Hard Rock	•

Lot:

33

# DRAINFIELD RECOMMENDATIONS DESIGN BASIS & AREA CALCULATIONS

Type of system	Drip with MicroFast 500 GPD Pretreatment				
EPR	45	Reserve Area Required	NO		
Slope %	30	Type of Reserve	N/A		
# Bedrooms Installed <24" from Rock or	3	Length of Reserve (feet)	N/A		
Other Impervious Strata Area (Sq. ft.) required per	No	# Lines in Reserve	N/A		
bedroom	279	Backfilling Required	YES		
Absorption Area Increase % Total Square ft. required	33	Backfilling Depth (inches)	7		
(Main DF)	3340	Width required (Main DF)(ft.)	**		
# Lines Installed		Width of Available Area (Main			
Line Length (feet)	**	DF + Reserve) (ft.)	85		
Installation Depth inches (into	**	Length of Available Area (ft.) Square Footage in Design	45		
natural soil)	5	(Main DF + Reserve)			
Width of Trench (feet)	N/A	(Main Di Meserve)	3825		
Centers (feet)	2				

### Notes:

<sup>\*\*</sup>See engineering design