

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

Phone: 540-381-0309

Dat	te: 8/20/0	2		General	Information					
Applicant: John Atkinson				Telephone No:			Health Department			
	ner:	P.O. Box 10879 S	outnpoi	rt NC 284	61 Address:					
Location:					7 Tutti 055.					
Sub	division:	Stone Ridge Phase	e I		Lot:	23				
1.	Position in	n landscape satisfac	Setory	oil Inform Yes	ation Summary	, Describ	e. Foc	stelone	/Tooslo	
2.		6 %	·			·	C. 100	isiope/	100810	ope
3.	Depth to r	ock\impervious stra	ata:	Max.	Mir	1.	Non	e x		
4.	Depth to s	easonal water table	(gray n	nottling or	gray color)	No	Ye	s x	34	inches
5.	Free water	present No	x	Yes		range in in	ches			
6.	Soil perco	lation rate estimate		Yes x No	Texture group Estimated rate	3 60		Min	/inch	
7.	Percolation	n test performed	Yes No	x Deptl	ber of percolation of percolation tage percolation r	est holes				
		of evaluator: Cl			vid Hall\Bill Eva	ns	Soi	l Scien	tist	
	Site A	pproved:		Depart	tment Use	de	epth at	site de	signate	ed on permit.
	Site D	isapproved:								

Reason for rejection:

- 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:

8/20/02

Health Department Identification No.

x See application sketch

See construction permit

Subdivision:

Stone Ridge

Lot:

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Hole #	Horizon	Depth	Description	Texture
1			_	Group
1	Ap	0-14	Brown (7.5YR 4/4) silt loam	3
	Bt	14-22	Strong Brown (7.5YR 5/6) silt loam	3
	BC	22-35	Brownish Yellow (10YR 6/6) gravelly silt loam	3
	С	35-48	Light Olive Brown (2.5Y 5/6) silt loam; many Gray (10YR 6/1) mottles	3
2	Ap	0-12	Brown (7.5YR 4/4) silt loam	3
	Bt	12-36	Strong Brown (7.5YR 5/6) silt loam	3
	BC	36-45	Brownish Yellow (10YR 6/6) gravelly silt loam; 15% coarse fragments	3
	С	45-50	Light Olive Brown (2.5Y 5/6) gravelly silt loam	3
3	Ap	0-14	Brown (7.5YR 4/4) silt loam	3
	Bt	14-26	Strong Brown (7.5YR 5/6) silt loam	3
	BC	26-38	Brownish Yellow (10YR 6/6) gravelly silt loam; 15% coarse fragments	3
	С	38-48	Light Olive Brown (2.5Y 5/6) gravelly silt loam	3
4	Ap	0-14	Brown (7.5YR 4/4) silt loam	3
(Res)	Bt	14-34	Yellowish Brown (10YR 5/8) silt loam	3
	С	34-50	Light Olive Brown (2.5Y 5/6) gravelly silt loam common Fe stains; common Gray (10YR 6/1) mottles	3

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DRAINFIELD RECOMMENDATIONS DESIGN BASIS & AREA CALCULATIONS

Type of system EPR Slope % # Bedrooms	Gravity with M 60 16 3	icrofast 500 GPD Pretreatment Unit Reserve Area Required Type of Reserve	YES Microfast with drip	
Installed <24" from Rock or Other Impervious Strata Area (Sq. ft.) required per	N/A	Length of Reserve (feet) # Lines in Reserve	38 **	
bedroom	450	Square Footage in Reserve	1824	
Absorption Area Increase % Total Square ft. required	N/A	Backfilling Required	NO	
(Main DF)	1350	Backfilling Depth (inches)	N/A	
Line Length (feet)	75	Width required (Main DF)(ft.) Width of Available Area (Main	48	
# Lines Installed Installation Depth inches (into	6	DF + Reserve) (ft.)	48	
natural soil)	23	Length of Available Area (ft.) Square Footage in Design	113	
Width of Trench (feet) Centers (feet)	3 9	(Main DF + Reserve)	1350 (M), 1824 (Res)	

Note:

^{**}See engineering design