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

Phone: 540-381-0309

#### **General Information**

Date: 8/29/02

Health Department

Applicant:

John Atkinson

Telephone No:

Address: Owner:

P.O. Box 10879 Southport NC

Address:

Location:

Subdivision:

Stone Ridge Phase I

Lot:

32

Soil Information Summary

Position in landscape satisfactory

Yes х No

Describe: Sideslope

Slope 2. 6 %

Depth to rock\impervious strata:

Max.

Min.

None

Depth to seasonal water table (gray mottling or gray color)

No

2

45

Yes 31 Х

inches

5. Free water present

Yes No Х

range in inches

6. Soil percolation rate estimated

Yes X No

Texture group Estimated rate

Min/inch

Percolation test performed

Yes

Number of percolation test holes

No Х Depth of percolation test holes

Average percolation rate

Name and title of evaluator:

Charles Nelson\David Hall\Bill Evans

Soil Scientist

Department Use

Site Approved:

depth at site designated on permit.

Site Disapproved:

Reason for rejection:

- Position in landscape subject to flooding or periodic saturation. İ
- 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:

8/29/02

Health Department Identification No.

x See application sketch

See construction permit

Subdivsion:

Stone Ridge

Lot: 32

Hole #	Horizon	Depth	Description	Texture
1	Ap BA Bt C	0-7 7-14 14-31 31-48	Dark Yellowish Brown (10YR 4/4) loam Yellowish Brown (10YR 5/6) loam Yellowish Brown (10YR 5/8) sandy clay loam Yellowish Brown (10YR 5/8) sandy clay loam; common Light Brownish Gray (10YR 6/2) mottles	Group 2 2 2 2
2	Ap Bt C	0-7 7-36 36-46	Dark Yellowish Brown (10YR 4/4) loam Yellowish Brown (10YR 5/8) sandy clay loam Yellowish Brown (10YR 5/4) sandy loam	2 2 2
3	Ap BA Bt C	0-4 4-14 14-36 36-48	Dark Yellowish Brown (10YR 4/4) loam Yellowish Brown (10YR 5/6) loam Yellowish Brown (10YR 5/8) sandy clay loam Strong Brown (7.5YR 5/8) clay loam; common Light Brownish Gray (10YR 6/2) mottles	2 2 2 3

Lot: 32

# DRAINFIELD RECOMMENDATIONS DESIGN BASIS & AREA CALCULATIONS

Type of system	MicroFast 500 GPD \ Trenches				
EPR Slope %	45 6	Reserve Area Required Type of Reserve	NO N/A		
# Bedrooms Installed <24" from Rock or	3	Length of Reserve (feet)	N/A		
Other Impervious Strata Area (Sq. ft.) required per	N/A	# Lines in Reserve	N/A		
bedroom	344	Square Footage in Reserve	N/A		
Absorption Area Increase % Total Square ft. required	N/A	Backfilling Required	YES		
(Main DF)	1032	Backfilling Depth (inches)	13		
Line Length (feet)	50	Width required (Main DF)(ft.) Width of Available Area (Main	57		
# Lines Installed Installation Depth inches (into	7	DF + Reserve) (ft.)	57		
natural soil)	18	Length of Available Area (ft.) Square Footage in Design	50		
Width of Trench (feet) Centers (feet)	3 9	(Main DF + Reserve)	1050		

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