

**Auction Tract 2**

**SETEC**

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

**General Information**

Date: 8/13/02  
Applicant: John Atkinson  
Address: P.O. Box 10879, Southport, NC 28461  
Owner: Address:  
Location:  
Subdivision: Stone Ridge Phase I Lot: 8

Health Department

Telephone No:

**Soil Information Summary**

1. Position in landscape satisfactory Yes ☒ No Describe: Upland
2. Slope 6 %
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: 8/13/02

Health Department  
Identification No.

x See application sketch

See construction permit

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| Hole # | Horizon | Depth | Description   | Texture Group |
|--------|---------|-------|---|---------------|
| 1      | Ap      | 0-4   | Dark Yellowish Brown (10YR 4/4) loam  | 2             |
|        | BA      | 4-16  | Yellowish Brown (10YR 5/4) gravelly sandy loam  | 2             |
|        | Bw      | 16-40 | Strong Brown (7.5YR 5/6) gravelly sandy loam  | 2             |
|        | C       | 40-50 | Strong Brown (7.5YR 5/8) gravelly sandy loam; few Very Pale Brown (10YR 7/3) weathered rock fragments | 2             |
| 2      | Ap      | 0-4   | Dark Yellowish Brown (10YR 4/4) loam  | 2             |
|        | BA      | 4-10  | Yellowish Brown (10YR 5/4) loam   | 2             |
|        | Bt      | 10-26 | Strong Brown (7.5YR 5/6) sandy clay loam; moderate medium subangular blocky structure                 | 2             |
|        | BC      | 26-50 | Yellowish Brown (10YR 5/6) gravelly sandy loam  | 2             |
| 3      | Ap      | 0-2   | Dark Yellowish Brown (10YR 4/4) loam  | 2             |
|        | BA      | 2-12  | Yellowish Brown (10YR 5/4) loam   | 2             |
|        | Bt      | 12-28 | Strong Brown (7.5YR 5/6) sandy clay loam; moderate medium subangular blocky structure                 | 2             |
|        | BC      | 28-50 | Yellowish Brown (10YR 5/6) gravelly sandy loam  | 2             |

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**DRAINFIELD RECOMMENDATIONS  
DESIGN BASIS & AREA CALCULATIONS**

|  |         |  |      |
|--|---------|--|------|
| Type of system   | Gravity |  |      |
| EPR  | 40      | Reserve Area Required                                | NO   |
| Slope %  | 6       | Type of Reserve                                      | N/A  |
| # Bedrooms   | 4       | Length of Reserve (feet)                             | N/A  |
| Installed <24" from Rock or<br>Other Impervious Strata | N/A     | # Lines in Reserve                                   | N/A  |
| Area (Sq. ft.) required per<br>bedroom                 | 314     | Square Footage in Reserve                            | N/A  |
| Absorption Area Increase %                             | N/A     | Backfilling Required                                 | NO   |
| Total Square ft. required<br>(Main DF)                 | 1256    | Backfilling Depth (inches)                           | N/A  |
| Line Length (feet)                                     | 65      | Width required (Main DF)(ft.)                        | 57   |
| # Lines Installed                                      | 7       | Width of Available Area (Main<br>DF + Reserve) (ft.) | 57   |
| Installation Depth inches<br>(into natural soil)       | 18      | Length of Available Area (ft.)                       | 65   |
| Width of Trench (feet)                                 | 3       | Square Footage in Design<br>(Main DF + Reserve)      | 1365 |
| Centers (feet)   | 9       |  |      |