

SOIL AND ENVIRONMENTAL TECHNOLOGY, INC 111 N. Franklin Street, Christiansburg, VA 24073 Phone: (540) 381-0309 Fax: (540) 381-9430 E-mail: setec@soilandenvironmentaltechnology.com

		General Inform	ation	
Date: Applicant: Address:	5/31/2024	Pr	Patrick Co hone #:	unty Health Department
Directions to the Property:	US-58 W, R on VA-8 N (⁷ (0.6 mi), R on Rte 716/Sh Short Cut Dr			Rte 710/Woods Gap Rd orner of Woods Gap Rd &
Subdivision: Tax Map ID:	Short Cut Dr 4918-41 (12.552 acre po		Lot: 1	
1. Position in I	landscape satisfactory	Soil Information S Yes x No	ummary Describe: S	ideslope
2. Slope 19	%			
3. Depth to ro	ck\impervious strata: M	lax. >60" N	Min.	None
4. Depth to se	asonal water table (gray n	nottling or gray color)	No x Ye	s
5. Free water	present No x Ye	es range i	in inches	
6. Soil percola		es x Texture group No Estimated rate		1in/inch
7. Percolation	test performed Yes No	 Number of percola Depth of percolation Average percolation 	on test holes	
Name and title o	f evaluator: David I	Hall	PSS/AC	DSE
Signature:	12Aal			

X Site Approved: Absorption trenches dispersing septic tank effluent to be placed at 26" depth at site designated. Site provides a total of 1800 square feet of absorption area for the primary drainfield and 900 square feet for reserve.

Site Disapproved:

Reason for rejection: (check all that apply)

- 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 to seasonal 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 Ev	aluation:	5/16/2024	Patrick County	Health Department
x See a	pplication s	ketch	See construction permit	
Subdivisio	on: Short C	Cut Dr Lot:	1 TM#: 4918-41 (12.552 acre portion on Short Cut Dr)
Hole #	Horizon	Depth (in)	Description	Texture Group
Pit 1	Ap Bt1 Bt2 BC	0-6 6-20 20-36 36-60	Dark Reddish Brown (2.5YR 3/4) Loam Yellowish Red (5YR 4/6) Clay Loam; few mica flakes Yellowish Red (5YR 4/6) Clay Loam; few mica flakes Yellowish Red (5YR 4/6) Cobbly Clay Loam; 25% cobbles	2 3 3 3
Pit 3	Ap Bt1 Bt2 BC	0-10 10-20 20-42 42-60	Dark Brown (7.5YR 3/4) Loam Red (2.5YR 4/6) Clay Loam; few mica flakes Red (2.5YR 4/6) Clay Loam; Moderate Medium Subangular Blocky Structure Red (2.5YR 4/6) Clay Loam; few Very Pale Brown (10YR 7/3) Lithochromic Mottles	2 3 3 3
Pit 3	Ap Bt1 Bt2 BC	0-6 6-20 20-36 36-60	Dark Reddish Brown (2.5YR 3/4) Loam Yellowish Red (5YR 4/6) Clay Loam; few mica flakes Yellowish Red (5YR 4/6) Clay Loam; few mica flakes Yellowish Red (5YR 4/6) Cobbly Clay Loam; 25% cobbles	2 3 3 3

DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS

Subdivision: Short Cut Dr Lot: 1

TM#: 4918-41 (12.552 acre portion on Short Cut Dr)

Main DF		Reserve DF	
Type of system	Gravity	Reserve Area Required	Yes
EPR	75	Type of Reserve	Gravity
Slope %	19	EPR	75
# Bedrooms	3	Slope %	19
Gallons/Day	450	Gallons/Day	225
Width of Trench (ft.)	3	Width of Trench (ft.)	3
Total Square Ft. of Trench Bottom Required per BR	596	Total Square Ft. of Trench Bottom Required	894
Total Square Ft. of Trench Bottom per BR in Design	600	Total Square Ft. of Trench Bottom in Design	900
Total Square Ft. of Trench Bottom Required	1788	# Lines of Reserve	3
Total Square Ft. of Trench Bottom in Design	1800	Line Length (ft.)	100
# Lines Installed	6	Installed <24" from Rock or Other Impervious Strata	No
Length of Line Installed (ft.)	100	Centers (ft.)	10
Installed <24" from Rock or Other Impervious Strata	No	Width Required (ft.)	30
Centers (ft.)	10	Width in Design (ft.)	30
Width Required (ft.)	53	Installation Depth (inches into natural soil)	26
Installation Depth (inches into natural soil)	26	Amount of Backfill Required (inches)	N/A
Amount of Backfill Required (inches)	N/A		
		Type of Well Recommended	3C
		Amount of Casing & Grout (ft.)	20' min

