SITE & SOIL EVALUATIONS
& SYSTEM DESIGNS

154 HUMMINGBIRD HILLS LN • BRANSON, MISSOURI 65616

(417) 766-5927

		Invoice	384
TO	Cameron Schulz	Date	5/28/2025
ADDRESS	cameron@genfamland.com		
	816-307-0874		
	Generation Family Properties		
	Re: PID: 15-8.0-27-000-000-001.014, Taney, Co., Mo.		
1	SOIL AND SITE EVALUATION		450.00
	FOR SANITATION SYSTEM		
	DESIGN OF SANITATION SYSTEM		
1	Backhoe Fees		250.00
	TOTAL	$	700.00

Make checks payable to:
Allan Johnston
at address mentioned above

ALL AMOUNTS DUE AND PAYABLE WITHIN THIRTY (30) DAYS OF THE DATE OF INVOICE. A SERVICE CHARGE OF 1 1/2% PER MONTH AND ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED TO ALL PAST DUE ACCOUNTS.

SOIL EVALUATION FOR ON-SITE WASTEWATER TREATMENT AND DISPOSAL SYSTEM

Date 5/27/2025

LEGAL **NW** 1/4, **NE** 1/4, Section **27** Township **22N** Range **19W** County **Taney**

Address of site **PID: 15-8.0-27-000-000-001.014, Cedarcreek, MO 65627**

Owner's/Contractor's Name **Cameron Schulz 816-307-0874**

Mailing Address of Owner/Contractor cameron@genfamland.com,Generation Family Properties

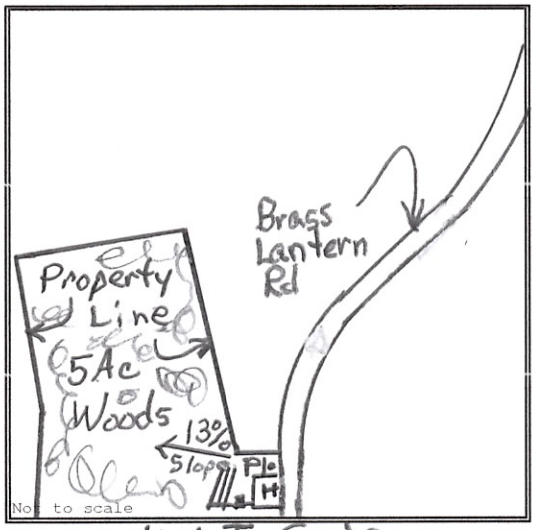
Type of Occupancy: Residence **X** Number of Bedrooms **3**

Commercial ___ Number of People Served ___

Soil Map Sheet **WSS** Name of Soil Map Unit **MU 73225-Ocie-Gatewood com. 3-8% slopes**

Expected Geology **Ordovician=Cotter Dolomite**

SITE VIEW: Locate observation pits and general soil area represented (Rep Area*). Indicate general slope, existence of lowlands, local surface depressions, rock outcrops, sinkholes.



Not To Scale

Direction

If system is not for a single family residence, all calculations showing determination of gap flow rate, septic tank size, adsorption system area must be included on site evaluation or installer's sketch.

Standard septic tank and lateral lines will be appropriate for this site

Yes **X** No ___

LOADING RATE: **0.4** gallons/day/sq. ft.

ABSORPTION AREA: **300** sq.ft/120gpd (bedroom)

* Rep Area excludes waterways and low areas shown or not shown. Rep. Area designates general represented soil areas only and may include areas unsuitable for use due to non-soil factors such as drainageways terrain, and standard setback distances.

** All required provisions must be made for absorption trench area recommendations to apply.

I, the undersigned, hereby certify that the site evaluation was made in accordance with the applicable standards as modified and approved by the administrative authority. The data recorded are correct to the best of my knowledge.

NAME **Allan Johnston Reg#10108** PHONE **417-766-5927**

ADDRESS **154 Hummingbird Hills Lane, Branson, MO 65616**

SIGNATURE Allan Johnston

W-102

All factors with a US or PS rating have a potential requirement determined by the administrative authority even if a specific recommendation is not listed here.

List of Factors

Rated US or PS	Recommendations for Meeting Provisional Requirements
IIa	Trenches shall not be dug when soil is wet to prevent sealing of the trench surfaces.
	Trench depth: (circle one) 12" (18") 24"
	1000 Gal., Conc., Septic Tank w/Filter. 300' of Lateral Line
	in a gravel trench, Install level, 10' O.C. min.

#1 - Lower clayey horizons will have significantly poorer seration under absorption field conditions, therefore the trenches should be kept as shallow as possible due to the **N/A** horizon at **N/A** inches.

#2 - An interceptor drain is needed upslope from the soil absorption system to remove excess water moving laterally through the soil during wet periods. Interceptor drain should be at a minimum depth of **N/A** inches for a **N/A** Curtain drain or **N/A** Vertical drain.

#3 - Surface water flow (**N/A** from drainageway; **N/A** from upslope) needs to be diverted away from absorption field.

#4 - Shallow placement of trenches (12-inch depth) is needed.

#5 - Due to the slope and/or to highly permeable horizons it is preferable not to utilize a serial system to minimize the number of step-downs.

General Recommendations: The absorption field should be placed over as wide an area of the landscape as possible.

WARNING:

1. Absorption field shall be protected from disturbance before and after installation (i.e., protection from excavation; fill material, traffic compaction, etc.)
2. Absorption field shall not be positioned directly upslope of home.
3. Drainage water from house guttering and subsurface foundation drains shall be directed away from absorption field.

* Requirements and recommendations provided do not give any guarantee that the absorption field system will function properly. They are provided solely to assist in meeting the specifications of the applicable standards as modified and approved by the administrative authority.

SOIL EVALUATION - SOIL FACTORS DATE: 5/23/2025

LOCATION: SE1/4,SE1/4 S17-T21-R21W OWNER/CONTRACTOR NAME: Cameron Schulz

SOIL PIT NUMBER: 1 DEPTH OF PIT: 43 INCHES

SOIL TYPE: Ocie DEVIATIONS: N/A

FACTOR	SUITABILITY CLASSIFICATION	FACTOR	SUITABILITY CLASSIFICATION
I. TOPOGRAPHY AND LANDSCAPE POSITION		II. SOIL CHARACTERISTICS	
A. Slope: 13% %	S	A. Soil Texture Group	
B. Slope Type:		Above 4 inches 111	S
Uniform X	S	Below 4 inches 1Va	PS
Complex		Depth to clayey horizon (>35% clay): 18"	
C. Landscape Position: Summit/Sideslope Transition	S	Depth and thickness of unsuitable horizon(s): N/A / N/A	
III. SOIL DRAINAGE		Horizon with >50% rock fragments: Yes ____ No X	
A. Seasonal High Water Table:		Depth and thickness: N/A / N/A	
Yes ____		B. Soil Structure: 1msbk	S
Perched ____		Depth and thickness of unsuitable horizon(s): N/A / N/A	
Apparent ____			
No X			
* B. Depth to low chroma mottling N/A		IV. SOIL DEPTH: 43"	S
V. RESTRICTIVE HORIZON(S)		VI. AVAILABLE SPACE: 5 Ac	S
Yes ____ No X	S		
Depth and thickness N/A / N/A		OVERALL SITE SUITABILITY	S

S - Suitable PS - Provisionally Suitable U - Unsuitable

Abnormally high potential for groundwater contamination: Yes ____ No X

Due to: Rapid permeability ____, Sinkhole ____

Depth to highly permeable bedrock

COMMENTS: **PS -msbk structure can be overcome by digging trenches when soil is dry/moist.**

* Include only low chroma colors due to wetness, indictating a water table.

If fine textured soils are expected to have a percolation rate slower than 120 min./in., they will be placed in the 4b texture group regardless of the perceived type of clay or

** amount of chert.

*** Some factors rated US may be reclassified PS if the required provisions are met.

(1) PROFILE DESCRIPTION

Location: NW1/4, NE1/4, S27-T22N-R19W 37.08839790, -93.18961690 Date: 5/23/2025

Pit No.: 1 Excavation Depth: 43 " Soil Type: Ocie Description By: Allan Johnston

Parent Material: Residuum Clay Type: 1Va Vegetative cover: Woods

Horizon	Depth In.	Texture (USDA) (2)	%	% Chert	%>3" (3)	Consistence (4)	Structure (5)	Roots (6)	Pores (6)	Munsell Notation (7)	Redex (8)	Soil Group	Misc L,R
A	0 - 4	sil 23%	-	25	—	vfr	1mgr	mn	mf	10YR3/3	—	111	.45
Bt1	4 - 18	sicl 38%	-	40	—	fi	1msbk	mn	cf	10YR5/4	—	1Va	.40
Bt2	18-31	c 43%	-	40	5	vfi	2msbk	cf	cf	10YR4/6	—	1Va	.40
2Bt3	31-43	c 45%	-	30	—	vfi	2msbk	ff	ff	5YR4/4	—	1Va	.40
R	43									2.5YR5/6			

Comments: Dolostone at 43" in profile.

1- Descriptions made in accordance with soil survey manual guidelines.

2 - s-sand, ls-loamy sand, sl-sandy loam, l-loam, sil-silk loam, scl-sandy loam, scl-sandy clay loam, cl-clay loam, sicl-silty clay loam, sc-sandy clay, sic-silty clay, c-clay

*Designate if estimated clay content > 35%

3 - Percent by volume of total horizon occupied by chert > 3" diameter.

4 - Use wet conditions ss-slightly sticky, s-sticky, vs-very sticky, sp-slighty sticky, sp-slightly plastic, p-plastic, vp-very plastic, Designate indications of significant compaction in non-pan horizon.

5 - Record grade, size, and shape. 1-weak, 2-moderate, 3-strong, gr-granular, sbk-subangular blocky, abk-angular blocky, pr-prismatic, m-massive, pl-platy. vf=very fine, f=fine, m=medium, c=corase, vc=very corse

6 - f-few, c-common, m-many, f-fine and/or very fine, m-medium, c-corse

7 - Color descriptions made with moist, broken samples.

8 - All low chroma mottles and iron and manganese concentrations due to soil water conditions shall be listed in this column

Record quantity of mottles (not) and concentrations.