

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Smith Douglas Homes DATE EVALUATED: 11/22/24
ADDRESS: 3412 Apex Peakway Apex, NC, 27502
PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.0400): 360 gpd PROPERTY SIZE: .459ac
LOCATION OF SITE: 180 DEODORA LANE, CAMERON NC 28326 PROPERTY RECORDED: yes
WATER SUPPLY: ☒ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☐ Other WATER SUPPLY SETBACK: na
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Domestic ☐ High Strength ☐ IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ		
1	Ridgetop 0%	5	GR/SL	FR/NS/NP/SEXP	5YR 2/2	48+			Suitable .65	0 in
		28	GR/SL	FR/NS/NP/SEXP	7.5YR4/6					
		48	GR/SL	FR/NS/NP/SEXP	5YR 4/6					
2	Ridgetop 0%	6	GR/SL	FR/NS/NP/SEXP	10YR4/4	48+			Suitable .70	0 in
		33	SG/LS	LO/NS/NP/SEXP	7.5YR4/6					
		48	SG/LS	LO/NS/NP/SEXP	5YR 4/6					
3	Ridgetop 0%	10	GR/SL	FR/NS/NP/SEXP	10YR4/4	48+			Suitable .70	0 in
		42	SG/LS	LO/NS/NP/SEXP	7.5YR4/6					
		48	SG/LS	LO/NS/NP/SEXP	5YR4/6					
4										

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	YES	YES
System Type(s)	IIIb	IIIb
Site LTAR	.60	.60
Maximum Trench Depth	24	24

Comments: _____

SITE CLASSIFICATION (.0509): _____
EVALUATED BY: Stephen W Bristow LSS 1167
OTHER(S) PRESENT: _____



Stephen Bristow

10-10-25
Soils on site match what is described by
LSS Findings - Expansion must be written
and tank relocation will be required.

M. R. H.

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft ²)	SAPROLITE LTAR (gpd/ft ²)	LPP LTAR (gpd/ft ²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 - 0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 - 0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)		SL (Sandy loam)		0.4 - 0.6		VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)	II	L (Loam)	0.6 - 0.8	0.2 - 0.4	0.3 - 0.4	FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)	III	SIL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)		CL (Clay loam)				EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SICL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)					VP (Very plastic)	
S (Shoulder slope)	IV	SC (Sandy clay)	0.1 - 0.4	None	0.05 - 0.2	SEXP (Slightly expansive)		
T (Terrace)		SIC (Silty clay)				EXP (Expansive)		
TS (Toe Slope)		C (Clay)						
		O (Organic)	None					

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface

DEPTH OF FILL In inches from land surface

RESTRICTIVE HORIZON Thickness and depth from land surface

SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

CLASSIFICATION S (Suitable) or U (Unsuitable)

Show profile locations and other site features (dimensions, reference or benchmark, and North).

SEE ATTACHED SITE PLAN