S&ME, INC.
SITE/SOIL EVALUATION

Project No. 1588-07-004 **Phone No.** _____ **Date:** 09/17/08
Location Coventry Hills Ln. **Pin** _____ **County:** Iredell **Property Size** _____

Proposed Facility: 3 or 4 BR SFD **Water Supply:** On-Site Well ☒ **Evaluation:** Auger Boring ☒
Described By: PLM, PGP, L. Cook — D. Hinson Present Community ☐ Pit ☒
Public ☐ Cut ☐

Weather: Cloudy **Antecedent Moisture** Moist **Surface Water:** _____

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4 *Auger
Landscape Position %				
Horizon Depth I	0-5	0-5	0-4	0-4
Color Munsell	Brwn.	Dk. Brwn	Dk br	Brwn
Texture	L	L/SL	l	SL
Structure	Mo/WK, Gr	Mo, Gr	Gr Mod/Wk	WK Gr
Consistence	Fr, SS, NP/SP	Fr, SS, NP/SP	Fr SS/NS NP	Fr, SS, NP
Boundary				
Horizon Depth II	5-22/25	5-17	4-19	4-18/19
Color – Munsell	Brwn,	Lt. Brwn	br-Red	Brwn
Texture	F-SL/L	SL	SL	SL/scL
Mottles	—	—	—	—
Structure	WK, SBK	WK, SBK	WK, SBK	WK, SBK
Consistence	Fr, SS, NP/SP	Fr, SS, NP	Fr, SS/SP	Fr, SS, SP/NP
Boundary				
Horizon Depth III	22/25-48	17-20/24	19-50	18/19-27
Color – Munsell	Brwn-Multi,	Brwn.	mix mc	Brwn
Texture	SCL-Sap,	SCL/CL	Indiscr, SPR,	SCL/CL-Sap,
Mottles	C-M-WR, + Rock	—	SL-SCL	Exp-C in Veins
Structure	Mass	WK, SBK/ABK	SS/SP	Mass
Consistence	Fr, SS, SP	Fr, SS, SP	Exp C veins	Fi, SS, SP
	w/ veins of Exp Clay			
	in Sap/WR			
Boundary		(BC-CB)		
Horizon Depth IV	48+	20/24-40	50+	
Color – Munsell	Multi.	Brwn to Multi	WR.	
Texture	WR/Rock	SCL + Sap MX		
Mottles	F-Sap.	F-C Gray		
Structure		WK ABK to Mass		
Consistence		F-Exp C Veins		
		40-55		
Boundary		Gray		
Soil Wetness		SCL/CL Sap w/		
Restrictive Horizon	@ 48"	Exp Pockets		
Saprolite	@ 22/25"			
LTAR				
Classification	PS	PS		
	< 22/25"	< 20/24"	< 19" PS	< 18/19" PS
	>22-25" US	>20/24" US	>19" US	>18/19" US

*Gray colors are result of both Redox + Ind. Sapp.

*NOTE: LTAR OF 0.20 WAS APPROVED BY IHD IF PRETREATED.

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Conclave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	angular blocky
pl	platy
pr	prismatic

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: 138083
COUNTY: 4629666216

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: JAMES OAM
ADDRESS: 135 COVENTRY HILLS LANE ROXBORO NC 27573
PROPOSED FACILITY: 4 BDRM HSE PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 135 COVENTRY HILLS LANE / LOT 169
APPLICATION DATE 9/8/06
DATE EVALUATED: 9/26/07
PROPERTY SIZE: 1.66
PROPERTY RECORDED: YES

WATER SUPPLY: ☐ Private ☐ Public ☒ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	30% - 35% L PIT	0-20"	SCL WK gr	fri sl sticky		20"			US
		20-30"	CL saprolite	ribbon out 1"					
		30-48"	same as 24-30" has some	rock & very platy					
			saprolite						
			* Bottom of Pit has WATER TO PIT		ON TOP OF SIDESLOPE WITH NO DATA				
2	30% - 35% L PIT	0-20"	SCL WK gr	fri sl sticky		20'			US
		20-30"	CL saprolite	ribbon over 1"					
		30"-48"	WATER IMF. Itration /8" DEEP WITH		NO DATA, PIT IS ON SIDESLOPE WITH CLOSENESS TO ROCK TOP				
3	30-35% L PIT	0-20'	SCL WK gr	fri sl sticky		20"			US
		20-36"	CL saprolite	ribbon out 1"					
		36-48"	WATER IN PIT BOTTOM	12" DEEP					
4	30-35% L AVERAGE	0-48"	FILL DIRT LAYERED & BENCHED ON SLOPE						US

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	US
System Type(s)	—	—
Site LTAR	—	—

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. LODL
OTHER(S) PRESENT: ___

COMMENTS: SOME ALSO EVALUATED PITS NOT WITH ME

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTUR
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Block) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
					MOIST	**WET**
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay) O (Organic)	0.4 - 0.1 None	0.2 - 0.05 None	VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic) P (Plastic) VP (Very Plastic)

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

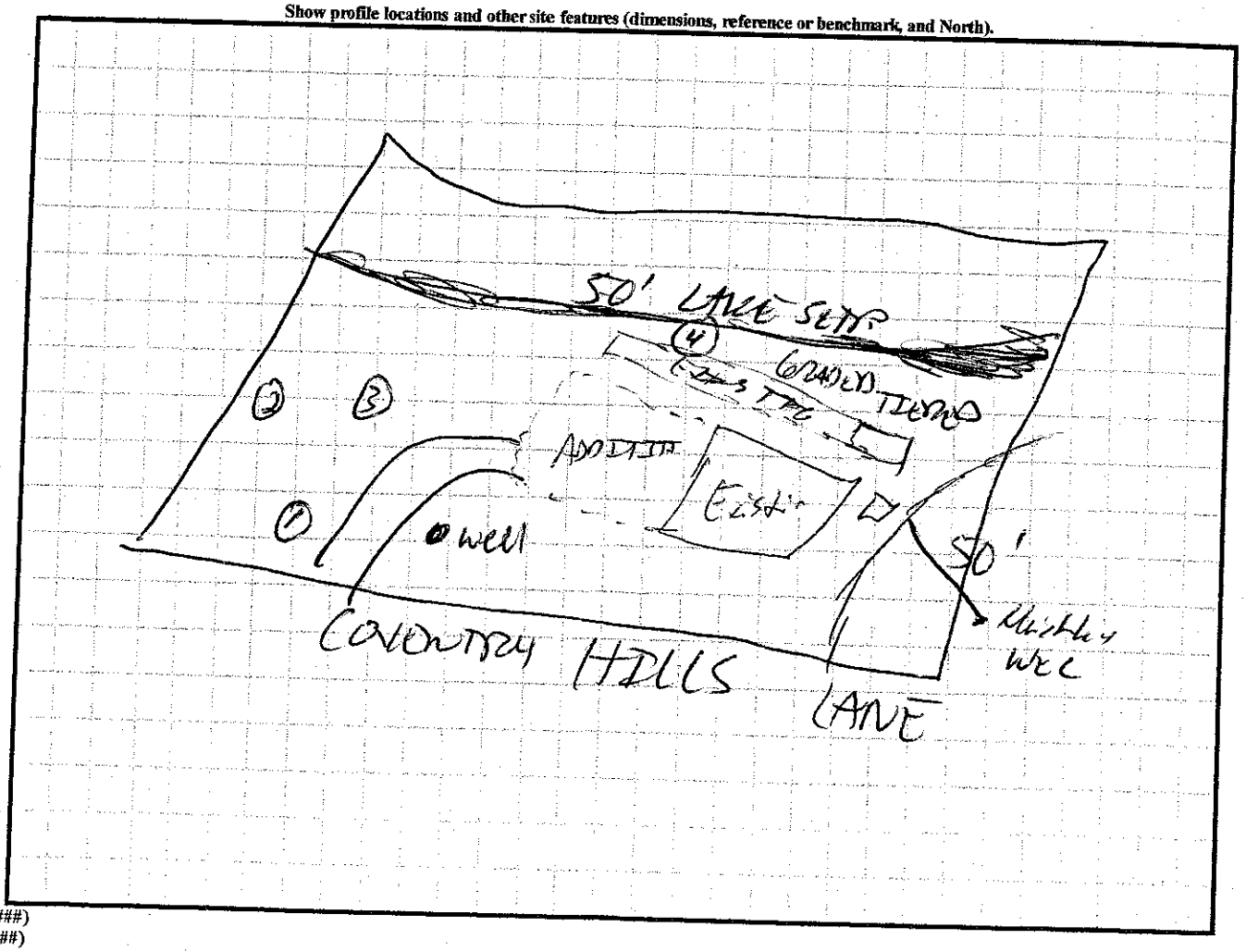
NOTES

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)
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), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



DENR (######)
Review (#####)