DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1

PROPERTY ID #: 4749534351

COUNTY: Iredell

Prm # 210390

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Nathan Somers — APPLICATION DATE: 5-11-15

ADDRESS: 119 Friendship Rd Statesville NC 28625 — DATE EVALUATED: 6-24-15

PROPOSED FACILITY: 3 Bed — PROPOSED DESIGN FLOW (.1949): 360 — PROPERTY SIZE: 2.0 ACRE

LOCATION OF SITE: 21N (L) Jennings (L) — PROPERTY RECORDED: Yes

WATER SUPPLY: • Private X Public • Well • Spring • Other N/A

EVALUATION METHOD: • Auger Boring X Pit • Cut — TYPE OF WASTEWATER: (Sewage) • Industrial Process • Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	10% L	0-4	scl w/ cr	fr compacted	N/A >48"	30"	PS	N/A >48"	PS .3
		4-28	cmod sbk	fr sp sesq					
		28-30	cl mod sbk	fr ss sp ses sp indurated <50%					
		30-65	loamy sp wk	gr fr sp pracy	cl indurated <50%				
2	10% L	0-8	scl w/ cr	fr sp pl sesq	N/A >48"	45"	PS	N/A >48"	PS .3
		8-28	cmod sbk	fr s p sesq					
		28-45	mod sbk	fr ss sp ses					
		45-65	very sp wk cl	indurated <50% wk si fr sp pl					
3	10% L	0-6	scl w/ cr	fr sp pl sesq	N/A >48"	32"	PS	N/A >48"	PS .3
		6-24	cmod sbk	fr sp sesq					
		24-32	cmod sbk	fr ss sp ses					
		32-65	very sp wk cl	indurated <50% fr sp pl sesq					
4	10% L	0-8	scl w/ cr	fr compacted	N/A >48"	32"	PS	N/A >48"	PS .3
		8-24	cmod sbk scl	fr sp ses					
		24-32	cmod sbk	fr ss sp ses					
		32-72	loamy sp wk cl	fr sp pl sesq					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	Conv 25%	Conv 25%
Site LTAR	.3	.3

OTHER FACTORS (.1946): Spetic System

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: L. Cook

OTHER(S) PRESENT: 2 Backhoe Diggers

COMMENTS: 100' WELL SETBACK FROM INITIAL & REPAIR

LEGEND

use the following standard abbreviations

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

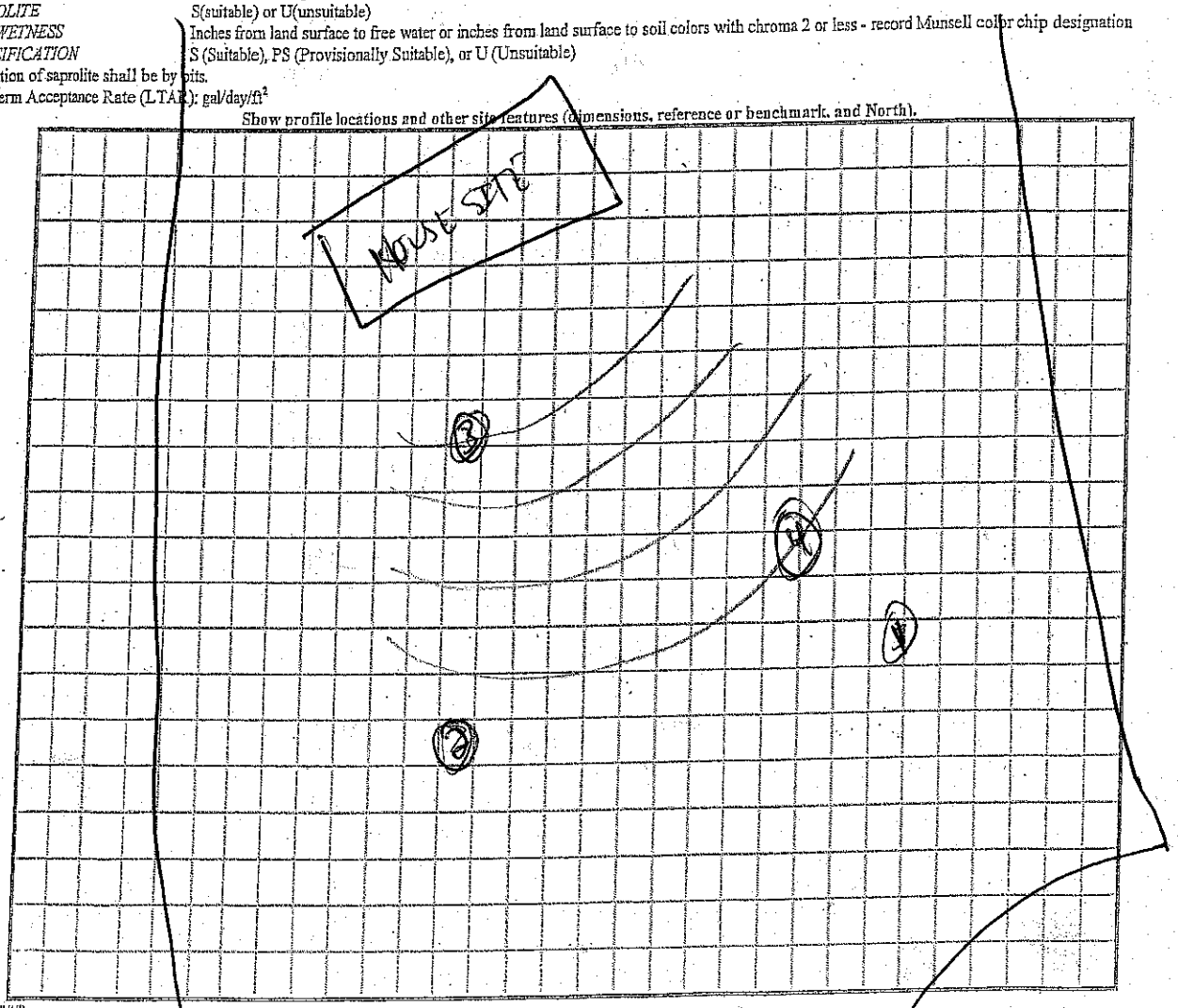
NOTES

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 (######)