DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3

PROPERTY ID #: 9193

COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Andrea T Dills

APPLICATION DATE 2/15/16

ADDRESS: 11558 Crossroads Rd. Mooresville NC

DATE EVALUATED: 3/3/16

PROPOSED FACILITY: SFR

PROPOSED DESIGN FLOW (.1949): 300 GPD

PROPERTY SIZE:

LOCATION OF SITE: 221 Lakeshore Dr.

PROPERTY RECORDED: 1963

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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
P 1	LL 4%	0-5	BCL, WSBK	FR, SS, SP	B DRAINAGE MOTTLES 22"-44"	53"	U f.c-m SAP IN 24-53"	53"	.25
		5-24	RC, ABK	" " "					
		24-46	RBL, WSBK	" " "					
		46-53	CL, WSBK	FR, SS, SP					
		53-69	CL SAP	FR, SS, SP	SOME Y/B MOTTLES 44"-69"				
P 2	LL 7%	0-10	BSCL, WSBK	FR, SS, SP	Y/B MOTTLES 10"-34"	48"	N/A	34"	.2 0"-34" U 34"-48"
		10-23	RC, WSBK	FI, SS, SP					
		23-34	RYC, WABK	FI, S, P					
		34-48	YC, WSBK	VFI, VS, VP, EXP	CHROMA 2 @ 34"-48"				
P 3	LL 5%	0-10	BSCL, WSBK	FR, SS, SP	Y/B DROWN MOTTLES 10"-34"	48"	U C-M SAP IN 30"-48"	34"	.2 0-34" U 34"-60"
		10-23	RC, ABK	" " "					
		23-30	RYC, WSBK	FI S, P					
		30-48	RYCL, WSBK	FI, S, P					
		48-60	CL SAP		CHROMA 2's 34"-60"				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% / Drop	25% / Drop
Site LTAR	.2	.2

OTHER FACTORS (.1946):

SITE CLASSIFICATION (.1948): LS

EVALUATED BY: SC

OTHER(S) PRESENT: Bill O'Connell, Tammy Thompson

COMMENTS:

LEGEND

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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.

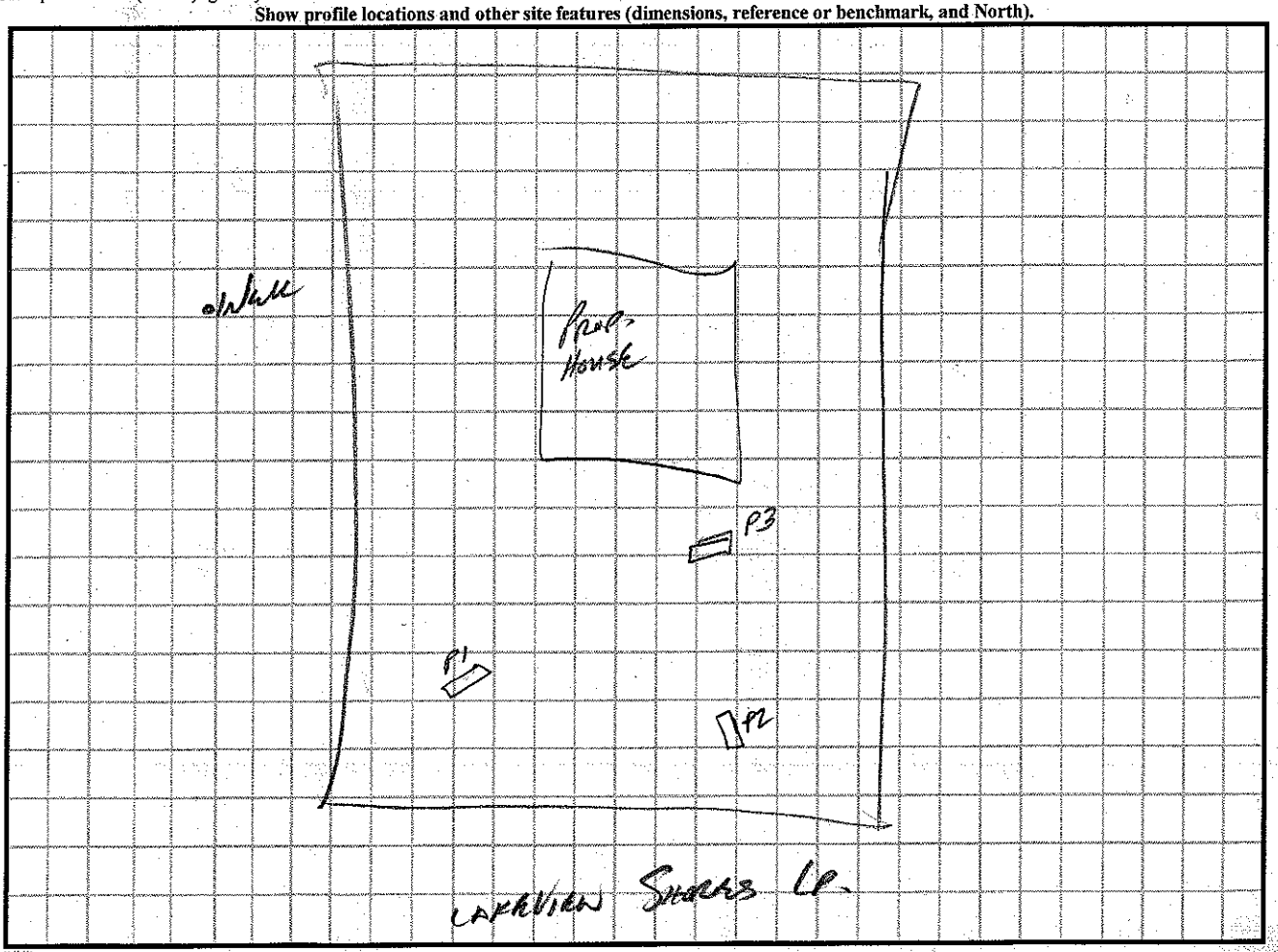
NOTES

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 (#####)

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Soil Notes

O	91'	(Closest to Roads)
P	20'	
B	40'	
W	93'	
O	92'	
B	26'	
P	71'	
W	91'	
	523'	

450' needed @ .2 for 300 GPD.

Deed

90'
70'
~~90'~~
90'
90'
70'

~~300'~~ 450'

$1.40