DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 4

PROPERTY ID #: 6933

COUNTY: FREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: JEFF LOUVORN — APPLICATION DATE: 1/25/16

ADDRESS: 3743 MILL RUN, TOWER NC — DATE EVALUATED: 2/10/16

PROPOSED FACILITY: SFR — PROPOSED DESIGN FLOW (.1949): 240 GPD. — PROPERTY SIZE: .3 ACRE

LOCATION OF SITE: 209 KENNERLY AVE. MOORESVILLE NC — PROPERTY RECORDED:

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) 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
A 1	LL 5%	0-12	BSCL, WSBK	FR, SS, SP	FEW MOTTLES 15"-18"	46"	C-M SAP INCL 24-45"	/	.275 0"-18" .3 18"-45"
		12-33	RC, SBK	" " "					
		33-46	RCL, SBK	" " "					
		46-48	MASS SAP	VFR, SS, SP					
A 2	LL 5%	0-8	BSL, GR	VFR, SS, SP	1/B MOTTLES 24-44"	48"	F-C SAP INCL 26"-48"	/	.25
		8-13	BSCL, WSBK	FR, SS, SP					
		13-30	RC, SBK	" " "					
		30-45	RC, WABK	FI " "					
		45-48	RCL, WSBK	FR, SS, SP					
A 3	LL 5%	0-12	BSL/SCL, WABK	FR, SS, SP	FEW 4/1 S 24-28"	46"	C-M SAP INCL 23"-45"	/	.275
		12-36	RC, SBK/SAME AGE	FR, SS, SP					
		36-46	RCL, WSBK/MASS	" " "					
		46-48	MASS SAP	VFR, SS, SP					
P 1	LL 5%	0-4	GRAVEL	—	FEW MINOR DRAIN MOTTLES 15"-25"	48"	F SAP INCL	/	.275
		4-9	COMPACTED	—					
		9-29	RC, SBK	FR, SS, SP					
		29-48	RCL, SBK	" " "					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	APPROVED	APPROVED
Site LTAR	.25	.25

OTHER FACTORS (.1946): —

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: SC

OTHER(S) PRESENT: H. LOUVORN

COMMENTS: PS DIG IN EXISTING DRIVEWAY & SEPTIC AREA.

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 6933
DATE OF EVALUATION: 2/10/16
COUNTY: IREDELL

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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
P 2	LL 5%	0-4	GRAVEL	—	FEW MOTTLES 15"-18"	40"	C SAP INCL 32-40"	/	.275
		4-10	COMPACTED	—					
		10-32	RC, SBK/SOME ABK	FR, SSSP					
		32-40	RCL, SBK	" " "					
P 3	LL 5%	0-4	GRAVEL		1/3's 32"-44"	48"	F SAP INCL 30-48"	/	.25
		4-12	COMPACTED						
		12-32	RC, ABK	FR, S, P					
		32-48	RC, WABK	FR, S, P					

COMMENTS: _____

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.

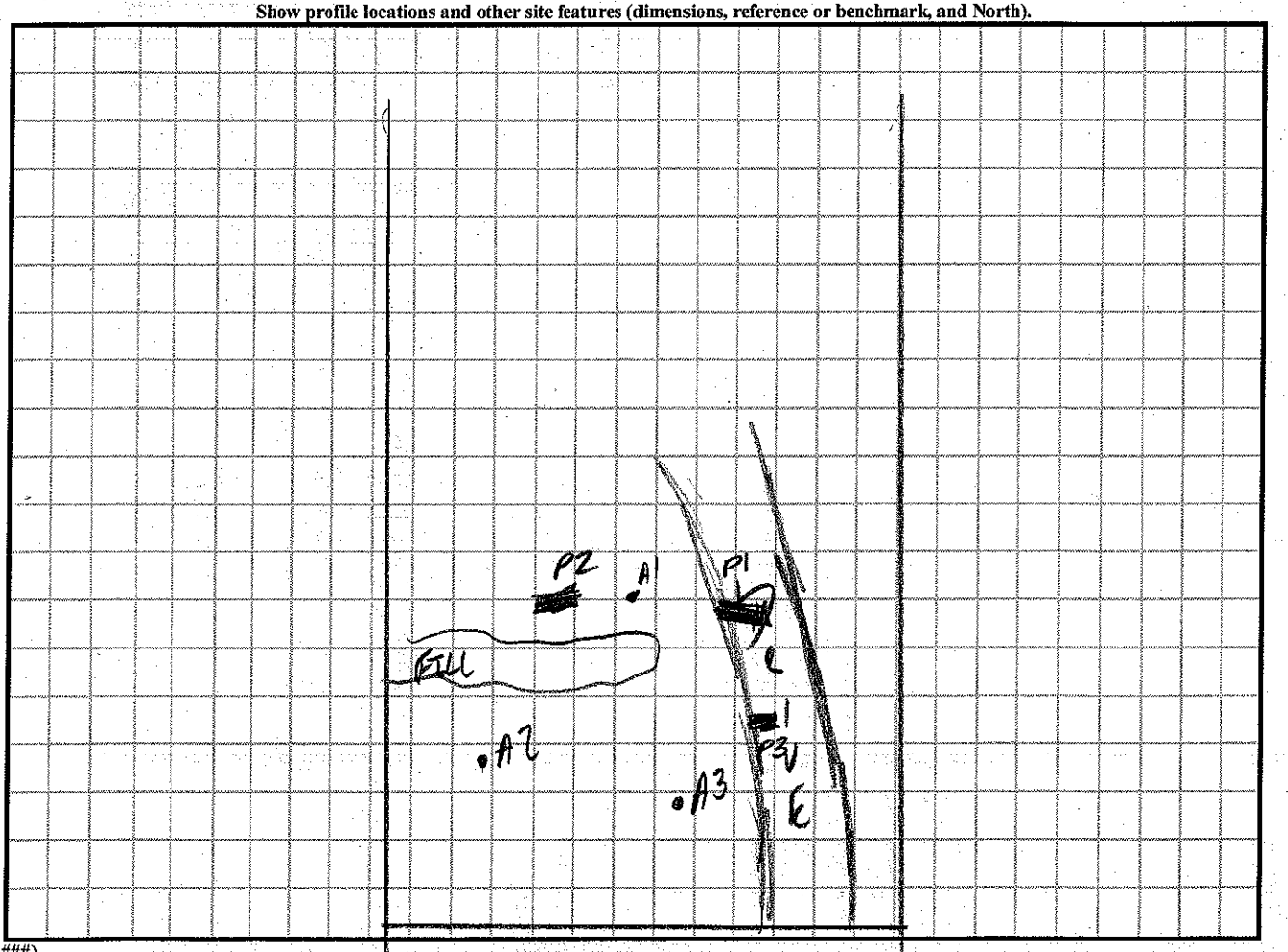
NOTES

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)

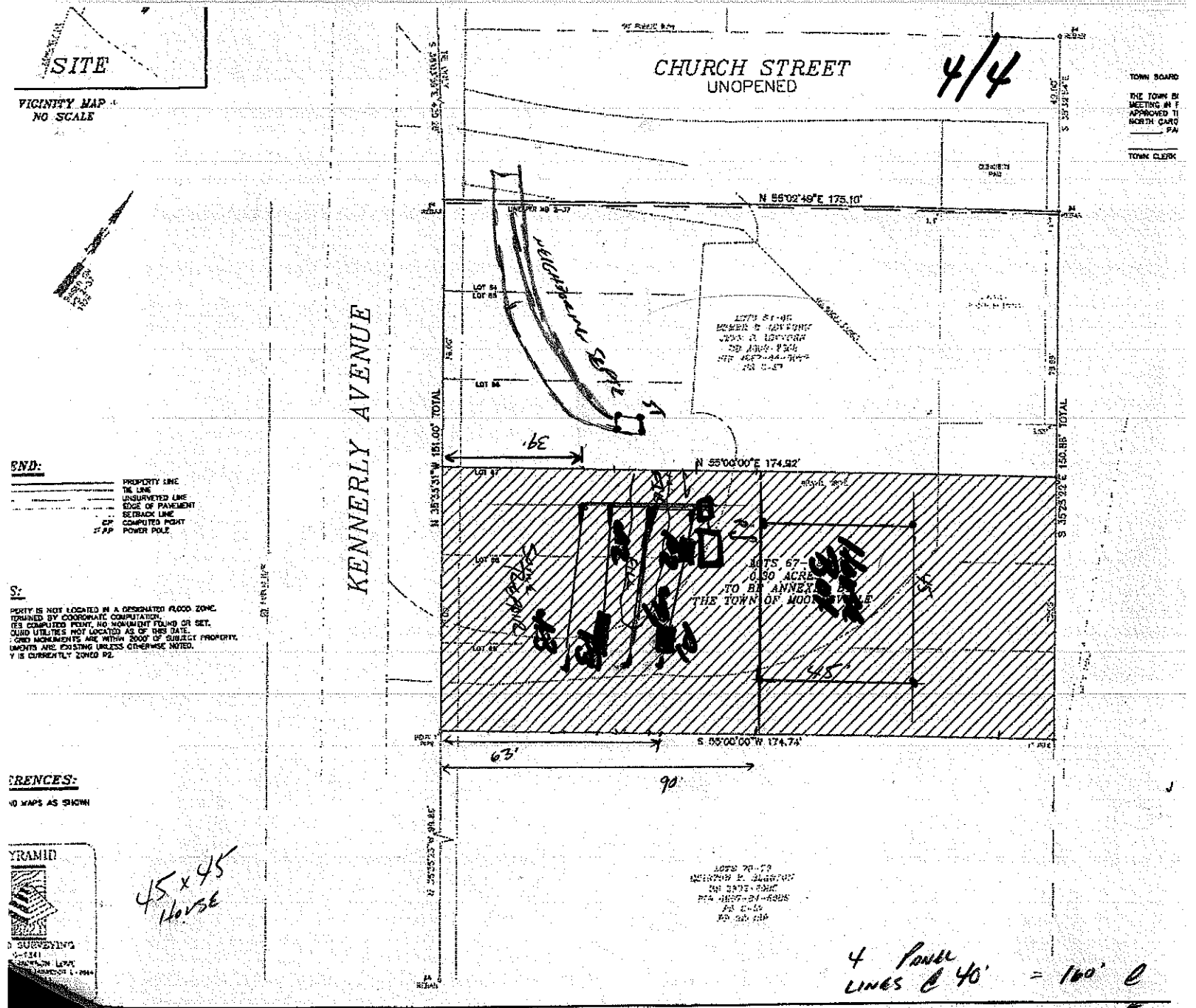
Evaluation of saprolite shall be by pits.

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

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



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



END:

PROPERTY LINE
TIE LINE
UNSURVEYED LINE
EDGE OF PAVEMENT
SETBACK LINE
CP COMPUTED POINT
PP POWER POLE

S:

PERTY IS NOT LOCATED IN A DESIGNATED FLOOD ZONE.
TERMINED BY COORDINATE COMPUTATION.
TES COMPUTED POINT, NO MONUMENT FOUND OR SET.
OUND UTILITIES NOT LOCATED AS OF THIS DATE.
GNED MONUMENTS ARE WITHIN 2000' OF SUBJECT PROPERTY.
UMENTS ARE EXISTING UNLESS OTHERWISE NOTED.
Y IS CURRENTLY ZONED R2.

RENCES:

40 MAPS AS SHOWN

YRAMID

D SURVEYING

45 x 45 House

4 Power Lines @ 40' = 160' @

1" = 40'

Mountain 20' off neighboring Septic

.25