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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell
4646413903

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Lot 10

OWNER: Ray Kelly
ADDRESS: P.O Box 32560 Mooresville, NC 28117
APPLICATION DATE 5/7/08
DATE EVALUATED: 5/21/08
PROPOSED FACILITY: 4 bd House PROPOSED DESIGN FLOW (.1949): 480 gal/day
PROPERTY SIZE: 0.66
LOCATION OF SITE: Alcove Rd., TR Catalina, TL Knox Haven, on Rt
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	L 4%	0-10"	w, sr, L	Fr	—	48"	—	—	0.35 P.S.
		10-48"	m, sbk, CL	Fr					
2	L 3%	0-11"	w, sr, L	Fr	—	48"	—	—	0.35 P.S.
		11-48"	m, sbk, CL	Fr					
3	L 3%	0-12"	w, sr, L	Fr	—	48"	—	—	0.35 P.S.
		12"-48"	m, sbk, CL	Fr					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	P. S.	P. S.
System Type(s)		
Site LTAR	0.35	0.35

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): —
EVALUATED BY: Randy Mine
OTHER(S) PRESENT:

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
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 Blocky) 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		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None	None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
EFI (Extremely Firm)	NP (Non-plastic)
	SP (Slightly Plastic)
	P (Plastic)
	VP (Very Plastic)

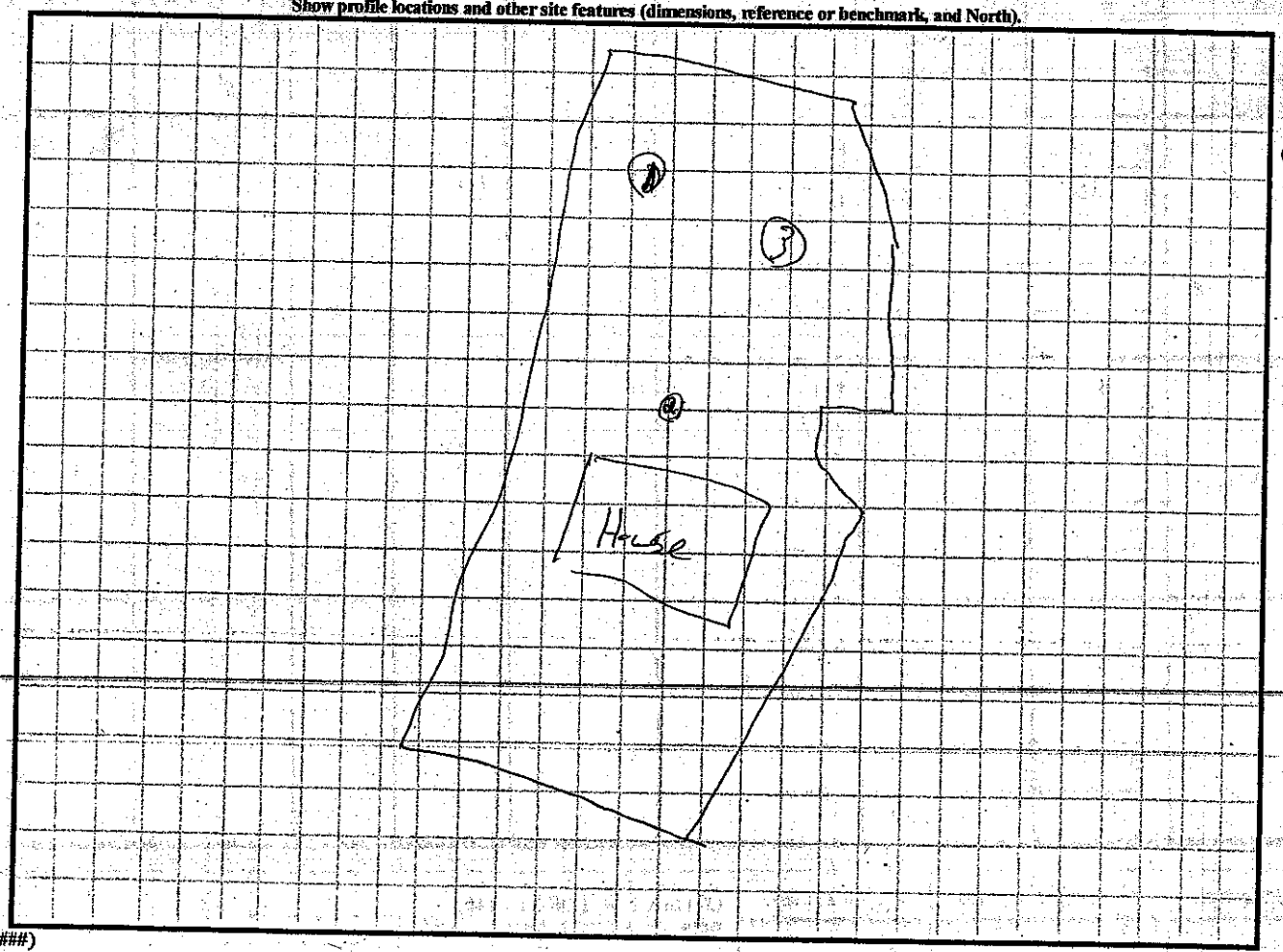
*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

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/ft²

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



Stonebridge PF 308511
Orange 9285 - 3005

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

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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell
4646414949

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Lot 11

OWNER: Ray Kelly
ADDRESS: ~~3276~~ P.O. Box 32760 Mooresville, NC 28117
PROPOSED FACILITY: 4br House
PROPOSED DESIGN FLOW (.1949): 480 gal/day
LOCATION OF SITE: Alcove Rd., TR Catalina, TL Knox Haven, on Rt
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut

APPLICATION DATE 5/7/08
DATE EVALUATED: 5/21/08
PROPERTY SIZE: 0.62
PROPERTY RECORDED: Yes
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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 2%	0-12"	w, sr, L	Fr	—	48"	—	—	P.S. 0.35
		12"-48"	m, sbk, cL	Fr					
2	L 2%	0-11"	w, sr, L	Fr	—	48"	—	—	P.S. 0.35
		11"-48"	m, sbk, cL	Fr					
3	L 2%	0-12"	w, sr, L	Fr	—	48"	—	—	P.S. 0.35
		12"-48"	m, sbk cL	Fr					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	P.S.	P.S.
System Type(s)		
Site LTAR	0.35	0.35

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): —
EVALUATED BY: Kahler Amick
OTHER(S) PRESENT:

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.

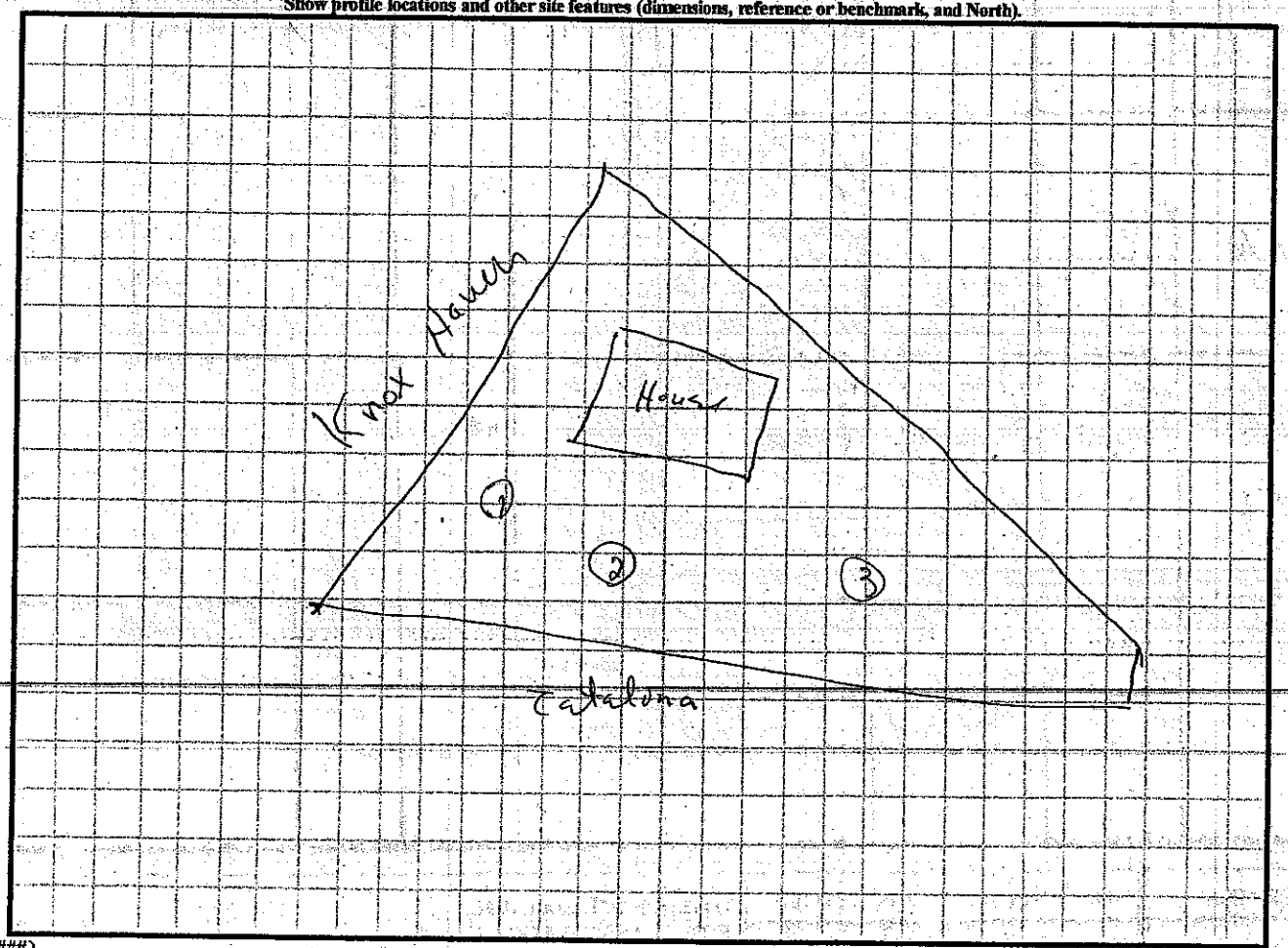
NOTES

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)

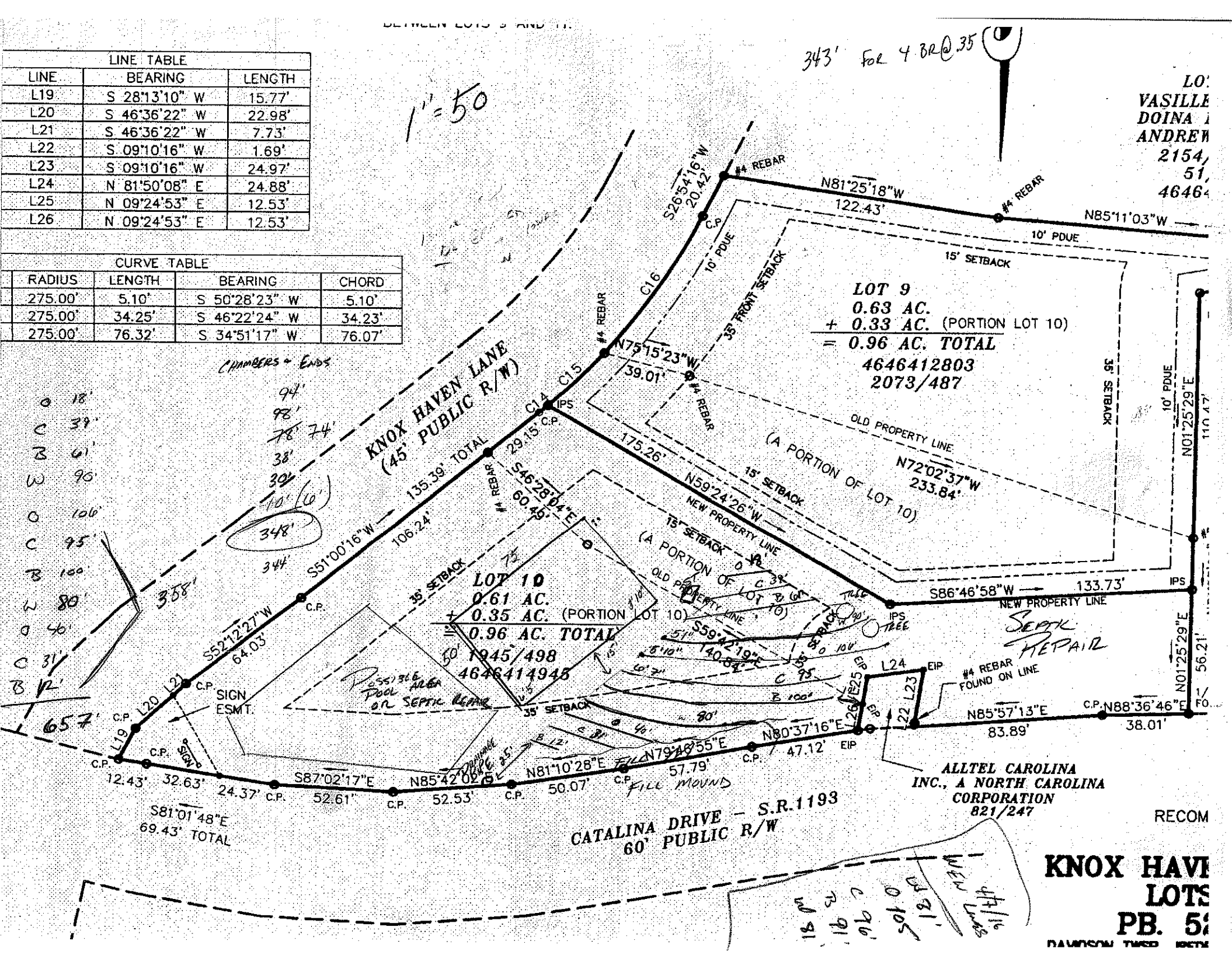
Evaluation of saprolite shall be by pits.

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

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



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


LINE TABLE
LINE | BEARING | LENGTH
L19 | S 28°13'10" W | 15.77'
L20 | S 46°36'22" W | 22.98'
L21 | S 46°36'22" W | 7.73'
L22 | S 09°10'16" W | 1.69'
L23 | S 09°10'16" W | 24.97'
L24 | N 81°50'08" E | 24.88'
L25 | N 09°24'53" E | 12.53'
L26 | N 09°24'53" E | 12.53'
CURVE TABLE
RADIUS | LENGTH | BEARING | CHORD
275.00' | 5.10' | S 50°28'23" W | 5.10'
275.00' | 34.25' | S 46°22'24" W | 34.23'
275.00' | 76.32' | S 34°51'17" W | 76.07'
1"=50
343' for 4 BR @ .35
KNOX HAVEN LANE
(45' PUBLIC R/W)
CATALINA DRIVE - S.R.1193
60' PUBLIC R/W
LOT 9
0.63 AC.
+ 0.33 AC. (PORTION LOT 10)
= 0.96 AC. TOTAL
4646412803
2073/487
LOT 10
0.61 AC.
+ 0.35 AC. (PORTION LOT 10)
0.96 AC. TOTAL
1945/498
4646414948
ALLTEL CAROLINA INC., A NORTH CAROLINA CORPORATION
821/247
SEPTIC REPAIR
Possible Alter Pool or Septic Repair
#4 REBAR
#4 REBAR FOUND ON LINE
IPS
IPS TREE
EIP
C.P.
SIGN
ESMT.
10' PDUE
15' SETBACK
35' SETBACK
35' FRONT SETBACK
OLD PROPERTY LINE
NEW PROPERTY LINE
(A PORTION OF LOT 10)
S26°54'16"W 20.42'
N81°25'18"W 122.43'
N85°11'03"W
N75°15'23"W 39.01'
N72°02'37"W 233.84'
N59°24'26"W 175.26'
S46°28'04"E 60.45'
S51°00'16"W 135.39' TOTAL
106.24'
S52°12'27"W 64.03'
S81°01'48"E 69.43' TOTAL
12.43'
32.63'
24.37'
S87°02'17"E 52.61'
N85°42'02"E 52.53'
N81°10'28"E 50.07'
N79°48'55"E 57.79'
N80°37'16"E 47.12'
S86°46'58"W 133.73'
N01°25'29"E 110.47'
N01°25'29"E 56.21'
N85°57'13"E 83.89'
N88°36'46"E 38.01'
FILL MOUND
DRAINAGE DITCH
KNOX HAVE
LOTS
PB. 5
RECOM