DENR DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #: 4636-57-8432
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Robert Summers — APPLICATION DATE
ADDRESS: 871 Cox Mill Rd. Concord NC — DATE EVALUATED: 6-4-15
PROPOSED FACILITY: SFR — PROPOSED DESIGN FLOW (.1949): 360 GPD — PROPERTY SIZE: 2.25 ACRE
LOCATION OF SITE: 1027 Brawley School Rd. 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) .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
A 1	LL 5%	0-12	BSCL, VWSBK	VFR, SS, SP					
		12-27	RC, SBK	FR, S, SP					
		27-36"	RC, ABK	FR, SS, SP	YB's MOTTLES 27"-36"	36"	N/A	37"	.25
		37"	CHROMA 2						
A 2	LL 8%	0-12	BSCL, VWSBK	VFR, SS, SP					
		12-42	RC, ABK	FI, S, SP	YB MOTTLES 20"-44"	48"	FEW SAP INCL 44"-48"	N/A	.25 12"-40" .275 40"-48"
		42-48	RCL, SBK/ABK	FR, SS, SP					
A 3	SLIGHT 4% 10%	0-8	BSCL, VWSBK	VFR, SS, SP					
		8-35	RC, ABK	FI, S, SP	FEW Y MOTTLES 25"-33"	48"	F INCL. 40"-48"	N/A	.25 0-35 .3 35"-48"
		35-48	RCL, SBK	FR, SS, SP					
A 4	LL 5%	0-35	RC, ABK	FI, S, SP					
		36-48	RCL, SBK	FR, SS, SP	YB MOTTLES 12"-35"	48"	N/A	N/A	.25 0-35 .275 36"-48"

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: Shane Cashion
OTHER(S) PRESENT: Gary Setzer

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.

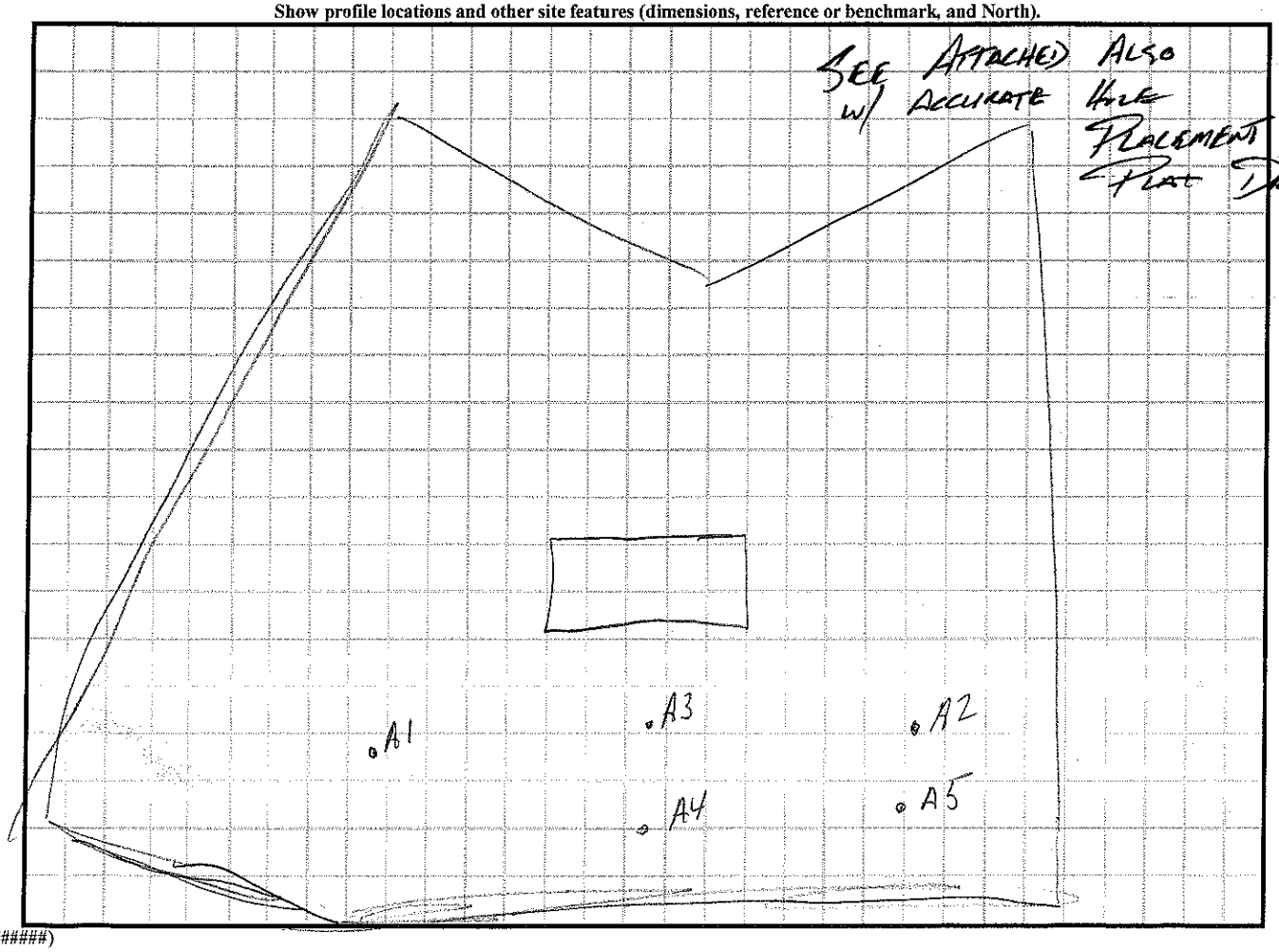
NOTES

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.

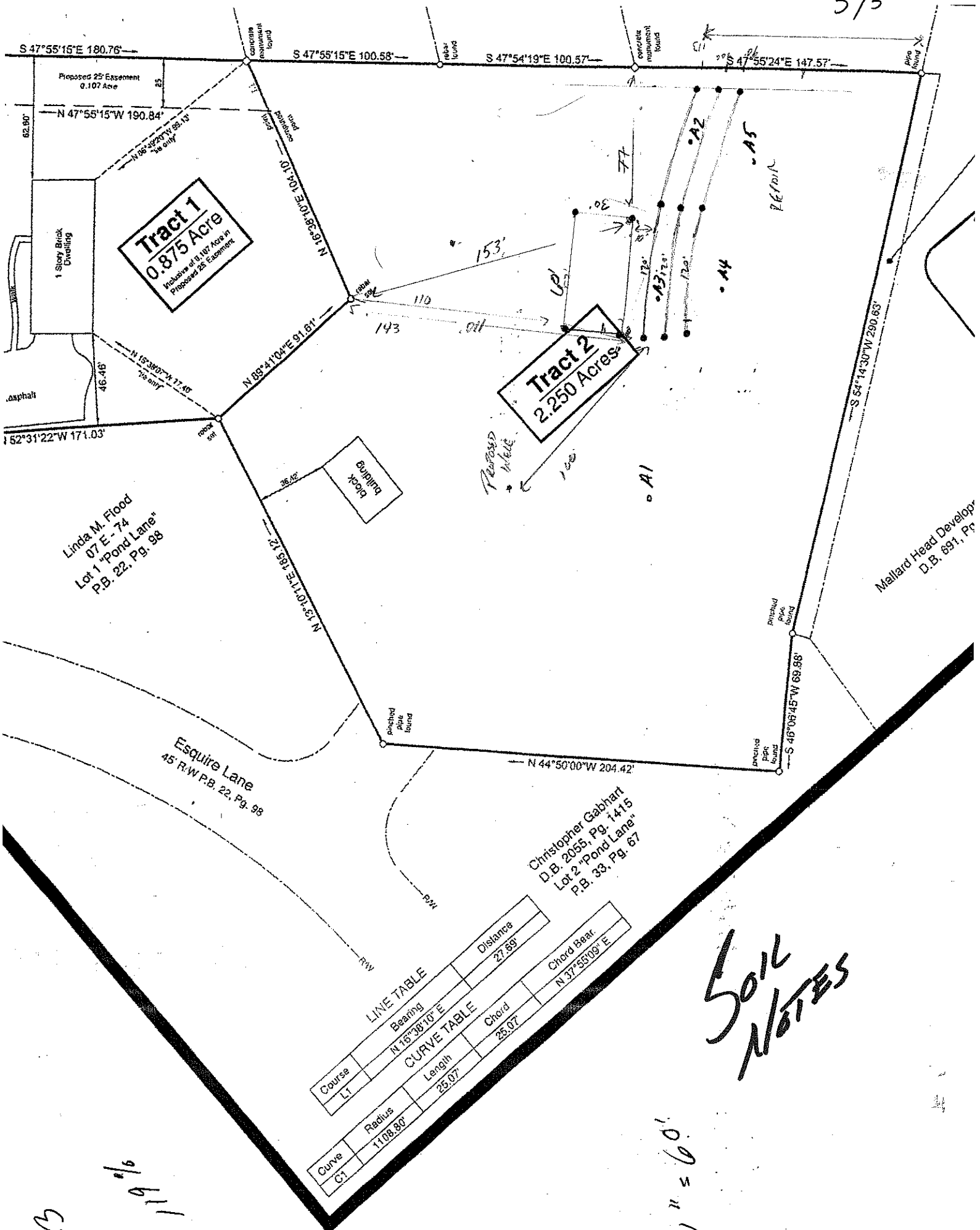
Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



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

A LL 0-35 RC ABK
5 5% 35-48 RCL SBK



LINE TABLE	
Course	Bearing
L1	N 15°38'10" E

	Distance
	27.59'

CURVE TABLE			
Curve	Radius	Length	Chord
C1	1108.80'	25.07'	25.07'

	Chord Bear.
	N 37°55'09" E