DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4738668508
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Robert Mess
ADDRESS: 154 River Run Rd.
PROPOSED FACILITY: SFD
LOCATION OF SITE: 131 River Run Rd
WATER SUPPLY: • (Private) • (Public) • Well • Spring • Other N/A
EVALUATION METHOD: • (Auger Boring) • Pit • Cut

APPLICATION DATE 3-9-15
DATE EVALUATED: 4-20-15
PROPOSED DESIGN FLOW (.1949): 480gpd
PROPERTY SIZE: 5.31 acres
PROPERTY RECORDED: Yes
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	18% L	6-6	SCL SBK	Fr Mod SE	48"	44"	44"	44"	PS 0.25
		6-20	C mica SBK	Fr mod SE					
		20-44	BC SAP Incl WSBK	Fr Mod SE					
		44-48	SAP						
2	14% L	0-5	SCL SBK	Fr Mod SE	48"	48"	48"	48"	PS 0.3
		5-18	C mica SBK	Fr Mod SE					
		18-48	BC SAP Incl WSBK	Fr Mod SE					
3	12% L	0-9	SCL SBK	Fr Mod SE	48"	48"	48"	48"	PS 0.25
		9-27	C mica SBK	Fr Mod SE					
		27-48	BC many SAP Incl WSBK	Fr mod SE					
4	12% L	0-8	SCL SBK	Fr Mod SE	48"	48"	48"	48"	PS 0.25
		8-24	C mica SBK	Fr Mod SE					
		24-48	BC SAP Incl WSBK	Fr Mod SE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	III	III
Site LTAR	0.25	0.25

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Mark Henderson & Heath Snow
OTHER(S) PRESENT: N/A

COMMENTS: TD @ 32"

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.

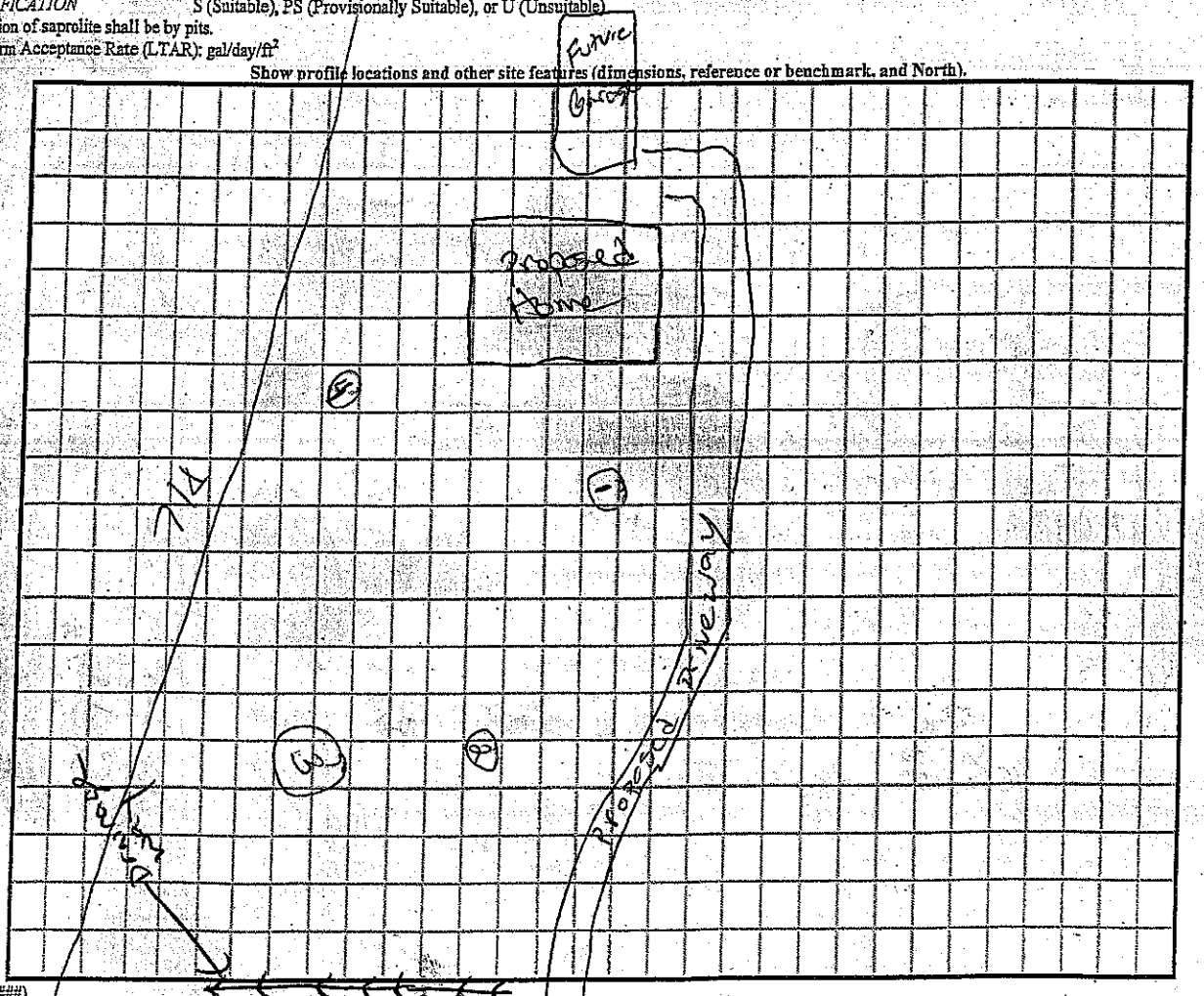
NOTES

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)

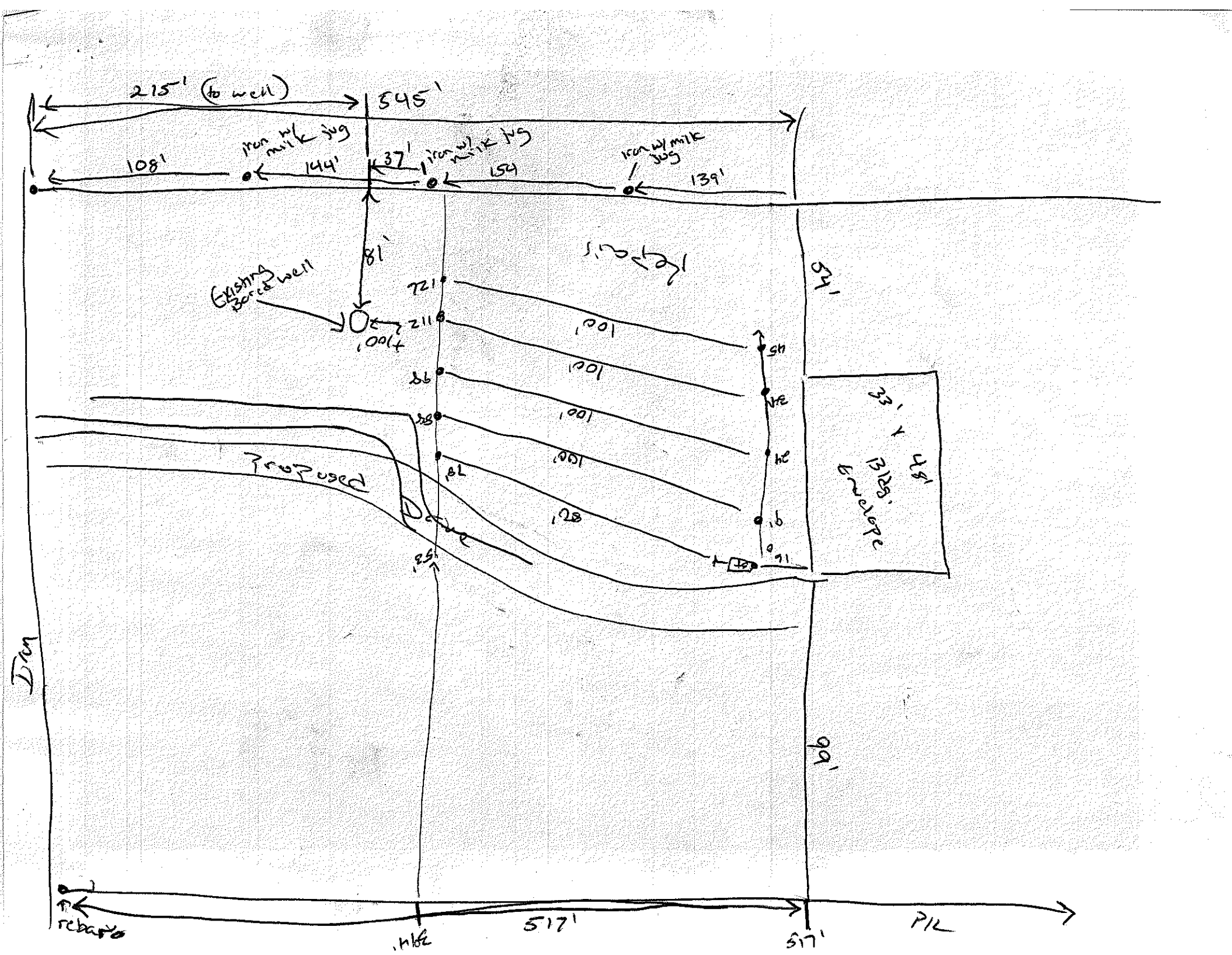
Evaluation of saprolite shall be by pits.

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

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



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


215' (to well)
545'
iron w/ mark jog
108'
144'
37'
iron w/ mark NS
154'
iron w/ mark jog
139'
81'
Existing Bored well
100'+
721'
211'
100'
100'
100'
100'
100'
128'
54'
SH
WE
HE
HE
10
33' x 49'
Bldg. Envelope
Trap used
85'
99'
Dam
rebars
WBE
517'
517'
PL