DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4629706449
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Ronnie Smith
ADDRESS: 150 Hermance Ln. APPLICATION DATE 4-10-14
PROPOSED FACILITY: 4 BR SFD PROPOSED DESIGN FLOW (.1949): 480 gpd DATE EVALUATED: 5-8-14
LOCATION OF SITE: 411 Morrison Farm Rd PROPERTY SIZE: 40.5 acres
WATER SUPPLY: • Private • (Public) • Well • Spring • Other N/A PROPERTY RECORDED: Yes
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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	6% NS	0-8	BSCL Gr	Fr SS/SP Mod SE	>51"	>51"	>51"	>51"	PS 0.3
		8-36	C SBK	Fr SS/SP Mod SE					
		36-51	CL mica wSBK	Fr Mod SE					
2	10% NS	0-35	C SBK	Fr SS/SP Mod SE	>58"	>58"	>58"	>58"	PS 0.3
		35-58	CL mica wSBK	Fr SS/SP Mod SE					
3	10% NS	0-38	C SBK	Fr SS/SP Mod SE	>52"	>52"	>52"	>52"	PS 0.3
		38-52	CL mica wSBK	Fr Mod SE					
4	12% NS	0-24	C SBK	Fr Mod SE	>52"	>52"	>52"	>52"	PS 0.3
		24-52	CL Sap Incl wSBK	Fr Mod SE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	III	III
Site LTAR	0.3	0.3

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

COMMENTS: N/A

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)			MOIST	WET
R (Ridge)		SCL (Sandy Clay Loam)				
S (Shoulder Slope)		SiL (Silt Loam)			VFR (Very Friable)	NS (Non-sticky)
T (Terrace)					FR (Friable)	SS (Slightly Sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FI (Firm)	S (Sticky)
		SiC (Silty Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		C (Clay)			EFI (Extremely Firm)	NP (Non-plastic)
		O (Organic)	None	None		SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

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

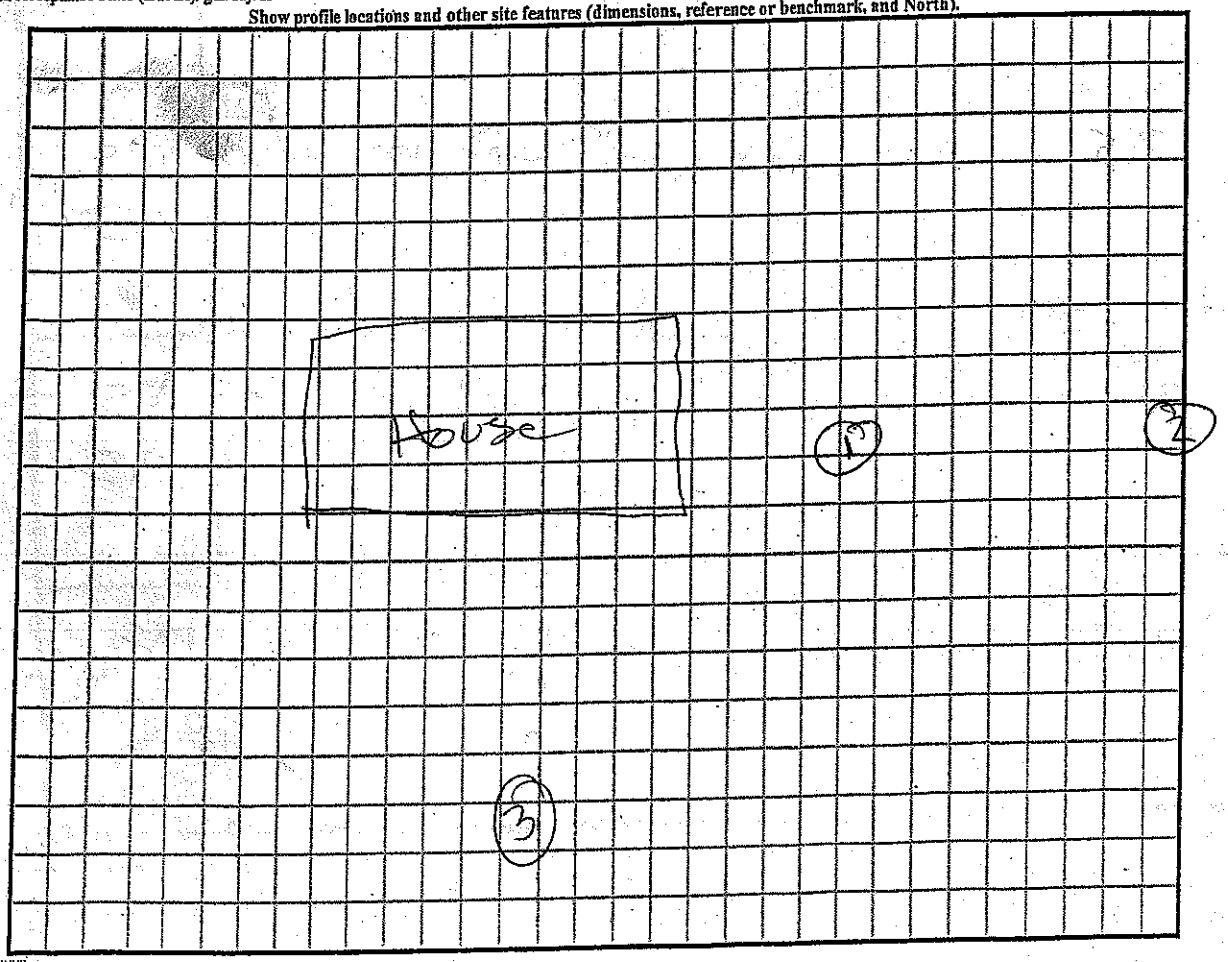
NOTES

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 (#####)