DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4880-93-1954
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: MICHAEL LADD
APPLICATION DATE: 2/2/12
ADDRESS: 306 DYSON ROAD, HARMONY, NC 28634
DATE EVALUATED: 2/17/12
PROPOSED FACILITY: 3BR HOUSE
PROPOSED DESIGN FLOW (.1949): 360
PROPERTY SIZE: 4.346 ACRES
LOCATION OF SITE: NC 901 TO SUFFIELD RD, TR DYSON, CROSS CREEK ON LEFT AT BOX #306
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	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	SLIGHT N 18%	0-8	WGR COBBLES SCL	VFR SEAP	N/A	PS TO 44" (32" MAX TRENCH DEPTH)	N/A	N/A	PS 0.35 TO 44"
		8-30	WSBK GRAVELLY CL	FR SEAP					
		30-44	WSBK SAP INC CL	FR SEAP					
		44+	ROCK						
2	SLIGHT N 17%	0-7	WGR COBBLES SCL	VFR SEAP	N/A	PS TO 48"	N/A	N/A	PS 0.35 TO 48"
		7-28	WSBK GRAVELLY CL	FR SEAP					
		28-48	WSBK CL	FR SEAP					
3	SLIGHT N 15%	0-10	WGR COBBLES SCL	VFR SEAP	N/A	PS TO 44" (32" MAX TRENCH DEPTH)	N/A	N/A	PS 0.35 TO 44"
		10-32	WSBK GRAVELLY CL	FR SEAP					
		32-44	SBK SAP INC CL	FR SEAP					
		44+	ROCK						
4	N 20%	0-12	WGR COBBLES SCL	VFR SEAP	N/A	PS TO 35" LDP REPAIR AREA	N/A	N/A	PS 0.35 TO 35"
		12-35	SBK GRAVELLY CL	FR SEAP					
		35+	ROCK						

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

OTHER FACTORS (.1946): NONE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. HEDRICK
OTHER(S) PRESENT: MICHAEL LADD

COMMENTS: LARGE DIAMETER PIPE REPAIR AREA

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.

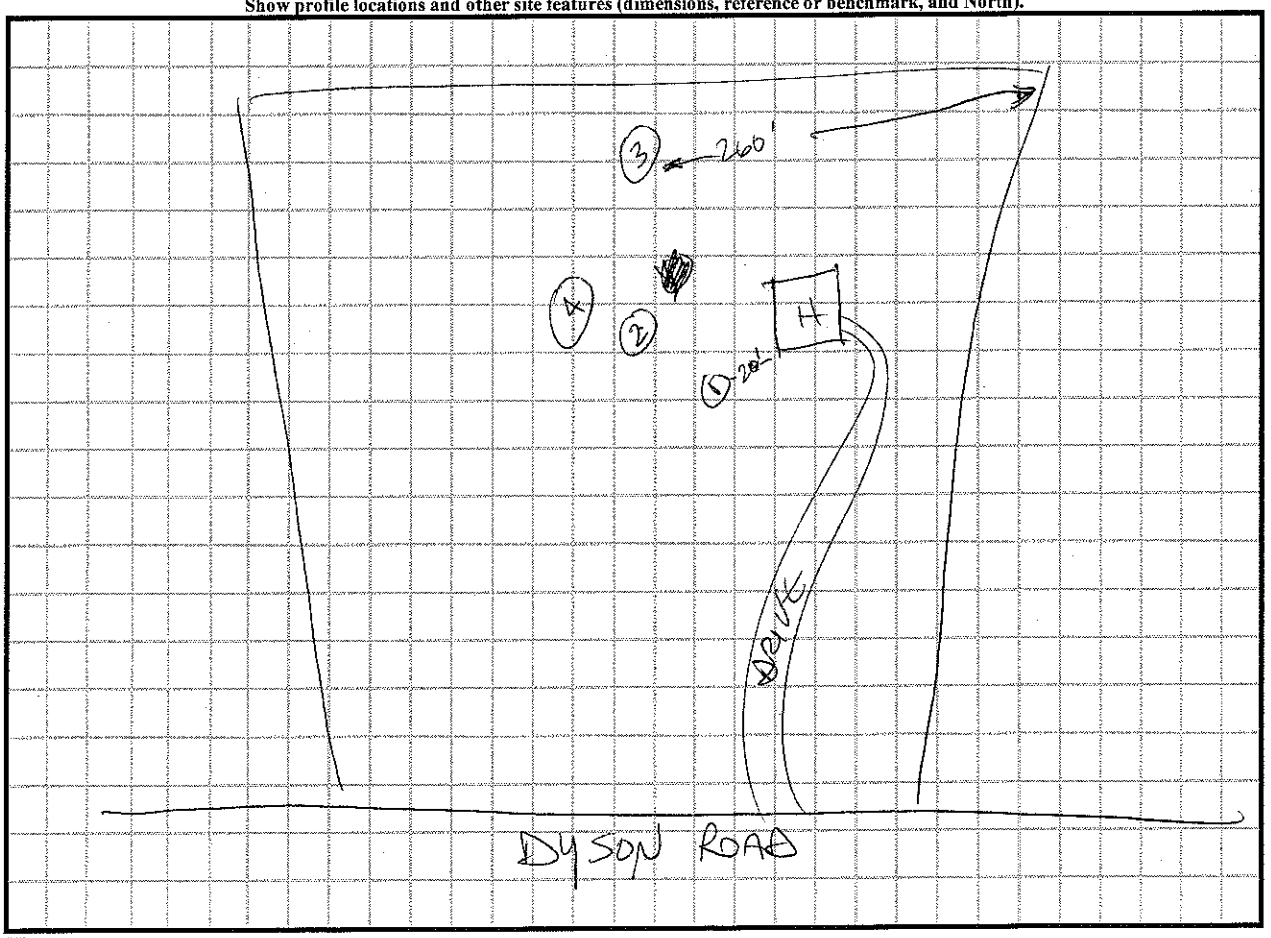
NOTES

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 (#####)