DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL HEALTH

ON-SITE WASTEWATER SECTION

SHEET: 1 of 2
PERMIT #:
PROPERTY ID #:
COUNTY: Iredell

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER/APPLICANT: Jerry Wright
ADDRESS:
PROPOSED FACILITY: 3BR SFD PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: Down Grand Rd, R off Hwy 21 South.
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE:
DATE EVALUATED: 08/20/06
PROPERTY SIZE: 1.0 Ac±
PROPERTY RECORDED:

PROFILE #	.1940 LSCP PSTN/ SLOPE %	HORIZ 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 ~9%	0-8	2, F, Gr, SCL	VFr	N/A	42"	N/A (Need Pits)	>48"	PS 0.275 @30" MAX T. Depth
		8-17	2/1, M, SBK, SC	Fr, SP, SEXP					
		17-28	2, M, SBK/ABK, C	Fr, SP, SEXP					
		28-42	1, F/M, ABK, C	Fr w/ SAP Inclus.					
		42-48	1, M, SBK, C + SAP MAX (≈50% SAP)						
2	L	0-4	1, M, Gr, SL	VFr, NP, NEXP		48"+	N/A	>48"	PS 0.25 @ ≤20" T. Depth
		4-25	1, M, Gr, SCL	VFr, NP, NEXP					
		25-32	BLACK CARBON						
		32-48	2/1, F, ABK, C	Fi, SP, SEXP	REDOX FEATURES CHRMA 2 GRAY @ ~34"				
3	L	0-3	1, F, Gr, SL	VFr, NP, NEXP					PS 0.275 @ 30" MAX T. Depth
		3-17	1, M, Gr, SCL	VFr, NP, SEXP					
		17-24	1, M, SBK, SCL	Fr, SP, SEXP					
		24-42	1, M, SBK/ABK, C	Fr, SP, SEXP					
		42-48	1, M, SBK/ABK, C	Fr/Fi, SP, SEXP	REDOX FEATURES CHRMA 2 GRAY @ 42"				
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	II	II/III
Site LTAR	0.275	0.275

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: P. Mitchell
OTHER(S) PRESENT: Tim Higgins

COMMENTS:

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LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4
CV (Convex Slope)		LS (Loamy Sand)		
D (Drainage Way)				
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3
FP (Flood Plain)		L (Loam)		
FS (Foot Slope)				
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15
L (Linear Slope)		SiCL (Silty Clay Loam)		
N (Nose Slope)		CL (Clay Loam)		
R (Ridge)		SCL (Sandy Clay Loam)		
S (Shoulder Slope)		SiL (Silt Loam)		
T (Terrace)				
	IV	C (Clay)	0.4 - 0.1	0.2 - 0.05
		SC (Sandy Clay)		
		SiC (Silty Clay)		
		O (Organic)	None	None

MINERALOGY/ CONSISTENCE
NEXP (Non-expansive)
SEXP (Slightly Expansive)
EXP (Expansive)

MOIST
VFR (Very Friable)
FR (Friable)
FI (Firm)
VFI (Very Firm)
EFI (Extremely Firm)

WET
NS (Non Sticky)
SS (Slightly Sticky)
MS (Mod. Sticky)
VS (Very Sticky)

NP (Non Plastic)
SP (Slightly Plastic)
MP (Mod. Plastic)
VP (Very Plastic)

STRUCTURE TYPE
G (Single Grain) [*Structureless*]
M (Massive) [*Structureless*]
CR (Crumb)
GR (Granular)
SBK (Subangular Blocky)
ABK (Angular Blocky)
PL (Platy)
PR (Prismatic)
COL (Columnar)
CMPD (Compound) [___ parting to ___]

STRUCTURE GRADE
0 (Strucutreless)
1 (Weak)
2 (Moderate)
3 (Strong)

STRUCTURE CLASS
VF (Very Fine)
F (Fine)
M (Medium)
C (Coarse)
VC (Very Coarse)

***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).

