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: Full Spectrum
ADDRESS:
PROPOSED FACILITY: 3BR SFD PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: LOT #6 Shamrock S/D
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE:
DATE EVALUATED:
PROPERTY SIZE:
PROPERTY RECORDED:

PROFILE #	.1940 LSCP PSTN/ SLOPE %	HORIZ DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L ~4%	0-14	2, M, Gr, SCL	Fr, SP, SEXP	N/A	>48"	N/A	N/A	PS 0.30
		14-36	1, M, Gr, SCL/SC	Fr, SP, SEXP					
		36-48	1, M, AbK, SC/C	Fr					
2	L	0-12	2, M, Gr, SCL	Fr, SP, SEXP	w/ Few - common Yellow mottles	>48"	N/A	N/A	PS 0.275
		12-36	2, M, AbK, C	Fr, SP, SEXP					
		36-48	1, M, SbK, C	Fr, SP, SEXP					
3	L	0-10	2/1, M, Gr, SCL	Fr, SP, SEXP	N/A	>48"	N/A	N/A	PS 0.30
		10-40	1, M, SbK, SC/C	Fr, SP, SEXP					
		40-48	1, M, SbK, C w/ SAP INCLUS.						
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. Mahan
OTHER(S) PRESENT:

COMMENTS:

* PG. 2 ON REAR

County: Iredell

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION
CC (Concave Slope)
CV (Convex Slope)
D (Drainage Way)
DS (Debris Slump)
FP (Flood Plain)
FS (Foot Slope)
H (Head Slope)
L (Linear Slope)
N (Nose Slope)
R (Ridge)
S (Shoulder Slope)
T (Terrace)

GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*
I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4
II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3
III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15
IV	C (Clay) SC (Sandy Clay) SiC (Silty Clay) O (Organic)	0.4 - 0.1 None	0.2 - 0.05 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).

