DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of
PROPERTY ID #:
COUNTY: FREDERICK

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: SHIRLEY COLLINS APPLICANT:
ADDRESS: APPLICATION DATE: DATE EVALUATED: 6-2-02
PROPOSED FACILITY: PROPOSED DESIGN FLOW (.1949): PROPERTY SIZE:
LOCATION OF SITE: PROVIDENCE LOT 5 PROPERTY RECORDED:
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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFIL CLASS & LTAR
1		0-19"	brown SL gr	fr ss sp scxp					24" TB FD .15/.2
		19-42"	cl yellow red abk	fi,s,p,scxp	-7 YELLOW BROWN MOTTLES w/ few inclusions of sap				
		42-64"	cl, many sap inclus, wk, sbk, fr, ss, sp, scxp						
2		0-24"	red clay abk many sap inclusions fi,s,p,scxp						.3 >24" TB 36"
		24-60"	wk sbk SL many sap fr ss sp/ns np scxp						
3		0-16"	PLOW LAYER SL FR SS SP SCXP						.2/24" .25/24-36" .3/.35 36"+
		16-29"	RED CLAY/YELLOW mix abk fi,s,p,scxp						
		29-63"	Loam/SL sap wk sbk fr ns np nscxp cl inclusions						
4		0-14"	PLOW LAYER SL FR, SS, SP, SCXP						0-30" .15
		14-30"	red/yellow abk clay fi,s,p,scxp						
		30-42"	exp clay abk crumb 2 mottles fi,s,p exp						
		42-54"	CL wk sbk	fr ss sp sp scxp common sap inclusions					

HOLES SKETCHED ON BACK

OFF SITE EASEMENT INCLUDED

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	CONV 25% RED	LPP 25% RED
Site LTAR	.25	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. COOK, B. FREEMAN
OTHER(S) PRESENT:

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)		SLC (Silt Loam Clay)				
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)
					VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None		EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

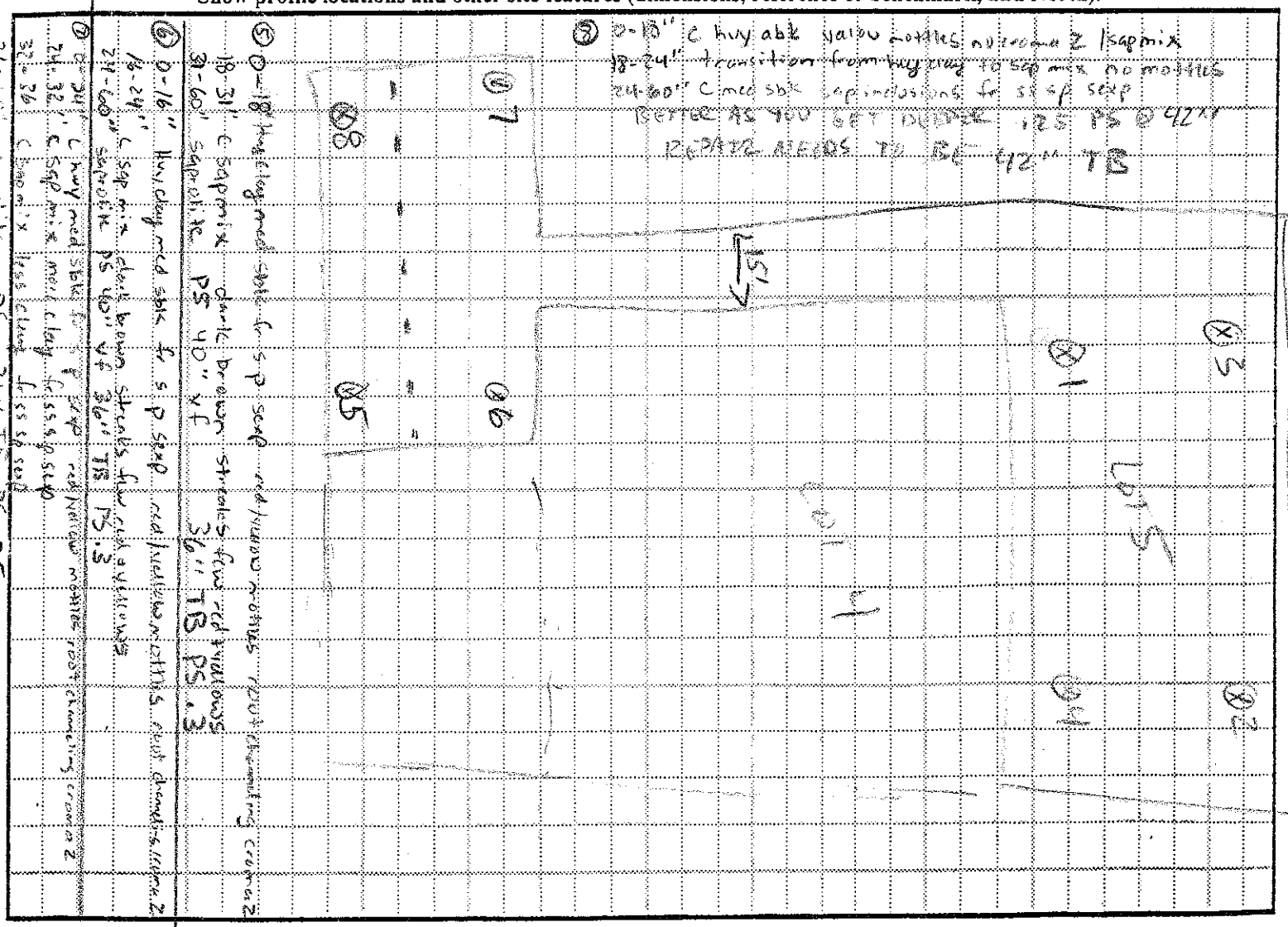
NOTES

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/ft²

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



DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of
PROPERTY ID #: 106073
COUNTY: 4751-62-3017.4 IREDELL
LOT 4

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

OWNER: SHIRLEY COLLINS APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: OSWALT ROAD TO LEFT ON BRYANTS CHAPEL CHURCH PROPERTY RECORDED: _____
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other POWERLINE
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

(9) 0-24" hvy clay mott, sbk, fr, s, p, scpp red/yellow motles chroma 2 from root channel mottling
24-36" c sap mix dark brown streaks few red & yellows
36-60" loamy saprolite wk sbk & ss sp scp, PS .25

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFIL CLASS & LTAR
5 PS		0-21"	clay sbk yellow/red	fi, s, p, scpp		21"	PS 21-60"		PS .25
		21-60"	loamy sap wk	sbk & ss sp scp					
6 PS			SAME AS HOLE 5						PS .25
7 PS		0-15"	compacted plow layer				PS 15-64"		PS .3
		15-64"	loamy sap wk	& ns sp scp					
8 PS		0-12"	brown scl plow layer						
		12-36"	sbk yellow/brown clay	fi, s, p, scpp		Chroma 2 28-39" expansive pockets (STAY BELOW)			
		36-50"	scl red	wk fr ss sp scp					
		50-64"	sl sap	wk & sssp scp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	GRAV 25% RED	GRAV PANEL
Site LTAR	.25	.25

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. COOK
OTHER(S) PRESENT: B. FREEMAN

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)		SLC (Silt Loam Clay)				
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)
					VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None		EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

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).

