MOORE'S ENVIRONMENTAL SERVICE COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Russ Graham APPLICANT:
ADDRESS: 105 Whitewater Cove Drive APPLICATION DATE: DATE EVALUATED:
PROPOSED FACILITY: Single Family Home PROPOSED DESIGN FLOW (.1949): 360 gal/unit PROPERTY SIZE: 16 acres
LOCATION OF SITE: Hicks Creek Rd 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	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	7% Linear	0 to 6	L						
		6 to 24	C SBK	Fi SEXP	10R5/6	48"	PS	PS	PS .25 to .3
		24 to 48	CL SBK	Fi SSXP					
2	7% Linear	0 to 6	L						
		6 to 34	C SBK	Fi SEXP	10R5/6	48	PS	PS	.25
		34 to 44	CL SBK	Fi SEXP					
3	4% Linear	0 to 6	L						
		6 to 18	C SBK	Fi SEXP	2.5YR5/6	46	PS	PS	.3 to .35
		18 to 42	CL SBK	Fi to Fr SEXP					
		42"+	SCL WSBK	Fr					
4	9% Linear	0 to 6	L						
		6 to 24	C SBK	Fi SEXP	2.5YR5/6	48	PS	PS	.3
		24 to 48	CL SBK	Fi to Fr SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% or Conv.	25% or 50%
Site LTAR	.25 to .3	.25 to .3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: A. C. Moore R.S.
OTHER(S) PRESENT: Russ Graham

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

Sheet ___ of
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICANT: Russ Graham
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: 7-17-03
PROPOSED FACILITY: 3 BR Home PROPOSED DESIGN FLOW (.1949): 360 GPD PROPERTY SIZE: 0.65 ACRES
LOCATION OF SITE: #2 Hicks Creek Homes 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	S/L ~11%	0-30	sbk/Abk, SC	Fr/Fi SS,SP,Rock	— w/ SAP Inclusions				PS 0.30
		30-48	Abk, SC	Fi/Fr, S, SP	— SAP MIX (<50% SAP)				
2	S ~9%	0-6	sbk, SC	Fr, SS					PS 0.30
		6-41	Abk, SC	Fi SS,SP	(<50% SAP MIX)				
		41-48	Abk, SC	Fi, SS,SP	— SAP MIX (≥50% SAP)				
3	L ~8%	0-6	sbk, SCL	Fr, SS					PS 0.25
		6-23	Abk/sbk, SC	Fi/Fr, SS,SP					
		23-48	Abk, C	Fi/Fr, SS,SP	— w/ SAP Inclusions				
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	EQ to 1,440 ft²	EQ to 1,440 ft²
System Type(s)	III	IV
Site LTAR	0.25	0.25

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: P. Mitchell
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).

