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

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Applicant
OWNER: Heritage Homes
ADDRESS: P.O. BOX 3333 MOORESVILLE NC 28117
PROPOSED FACILITY: 3 BEDROOM HOUSE
LOCATION OF SITE: HARBOR WATCH LOT 148

APPLICATION DATE: 9-30-04
DATE EVALUATED: 10-26-04
PROPERTY SIZE: 1.645 AC
PROPERTY RECORDED: YES

PROPOSED DESIGN FLOW (.1949): 360

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	PROFILE CLASS & LTAR
1	AUGER PIEDMONT SOIL NOTES 8%	0-6	scl wk gr	fr sp sbk					PS .3
		6-48"	c mod sbk	fi sp sbk		48" SD			
			slp inclusions	< 50%					
2	PIT 10%	0-6	scl wk gr	fr sp sbk					PS .3
		6-60"	c mod sbk	fi sp sbk	Yellow brown mottles @ 52" (chroma 2)	@ 57			
			very few slp inclusions						
			< 50%			48" SD			
3	PIT 12%	0-6	scl wk gr	fr sp sbk					PS .3
		6-55"	c mod sbk	fi sp sbk					
						48" SD			
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	LPP 25% RED	LPP 50% RED
Site LTAR	.3	.3

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): BS
EVALUATED BY: L. COOK
OTHER(S) PRESENT: M. TAYLOR BERRY & DEPUTY

COMMENTS: ___

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.

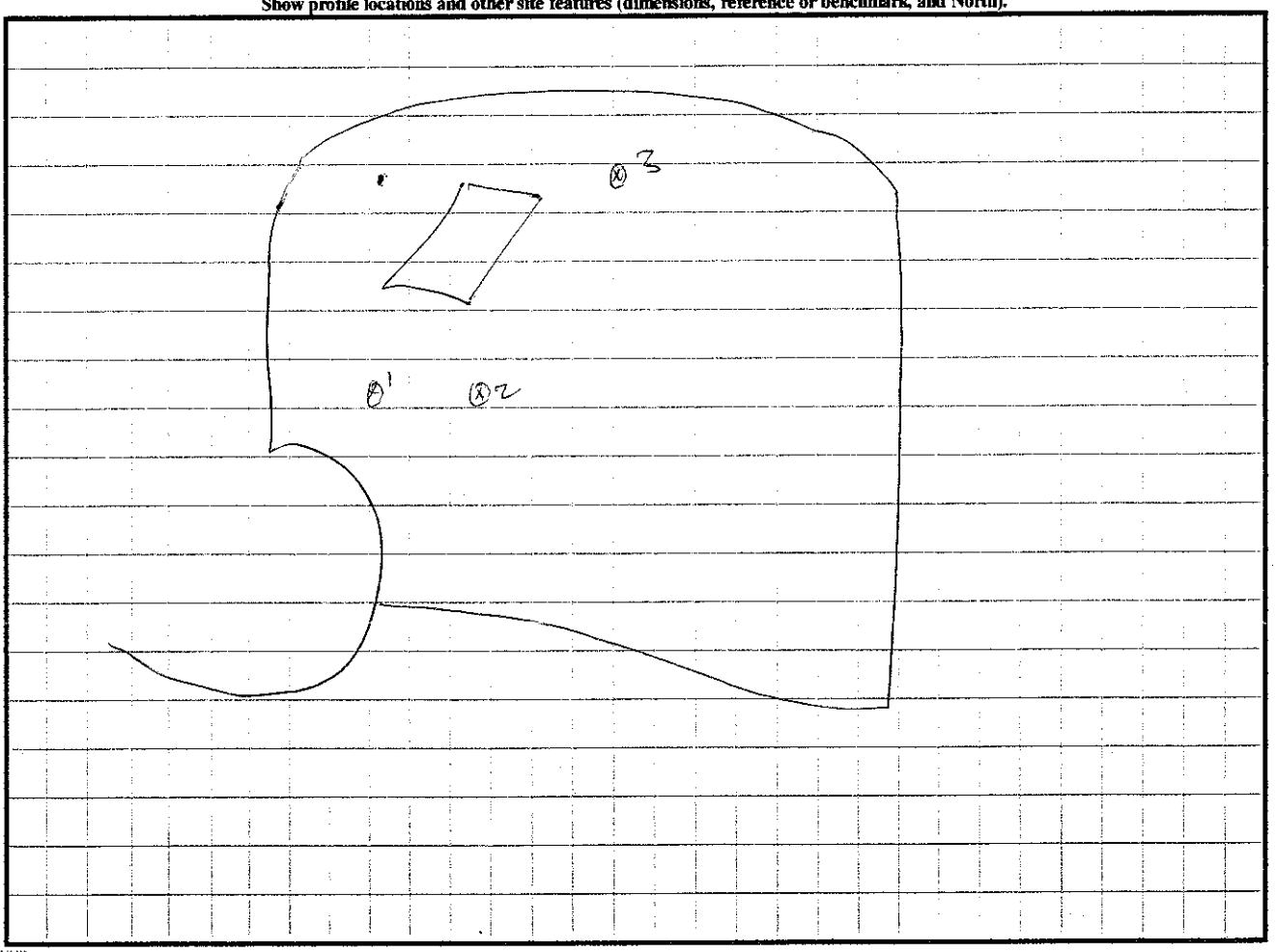
NOTES

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 (#####)

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

Sheet ___ of ___
PROPERTY ID #: 121737
COUNTY: 4711-22-2336

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ARTHUR DAVIS APPLICATION DATE 6/7/01
ADDRESS: 12 WEST ST DUMSON NJ 07760 DATE EVALUATED: 6-19-01
PROPOSED FACILITY: HOUSE PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: 1.695 AC
LOCATION OF SITE: HARBORWATCH LOT 148 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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
A	AUGER 1&2	0-6"	scl wk sr	fr ns np ssp		48"			PS .3
		6-48"	sap inclusions <5% cmed sbk	fi sp ssp					
B	OLD PITS 3	0-8	scl blk FR			48"			PS .3
		8-37	cl w sbk ss sp ssp						
		37-48	cl sap sbk inclusion < 50% f	ss sp ssp					
C	4	0-8"	scl wk sr	fr ns np ssp		SOIL STRUC >50%			PS .3
		8-24	c/c med sbk	fi sp ssp					
		24-50	cl with rock fgmts	fr ss sp ssp					
D	5	0-8"	scl wk sr	fr ns np ssp					PS .05
		8-36"	c/cl sp ssp	fi sbk					
		36-48"	few yellow mottle / sap inclusions						
			c/c med sbk	fr ss sp ssp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	CONV CONV	LPP 25% 15"
Site LTAR	.3	.05

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. LOOK
OTHER(S) PRESENT: ___

COMMENTS: ___

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
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)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	SCL (Sandy Clay Loam) SiL (Silt Loam) CL (Clay Loam) SiCL (Silty Clay Loam) Si (Silt)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None			

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
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.**

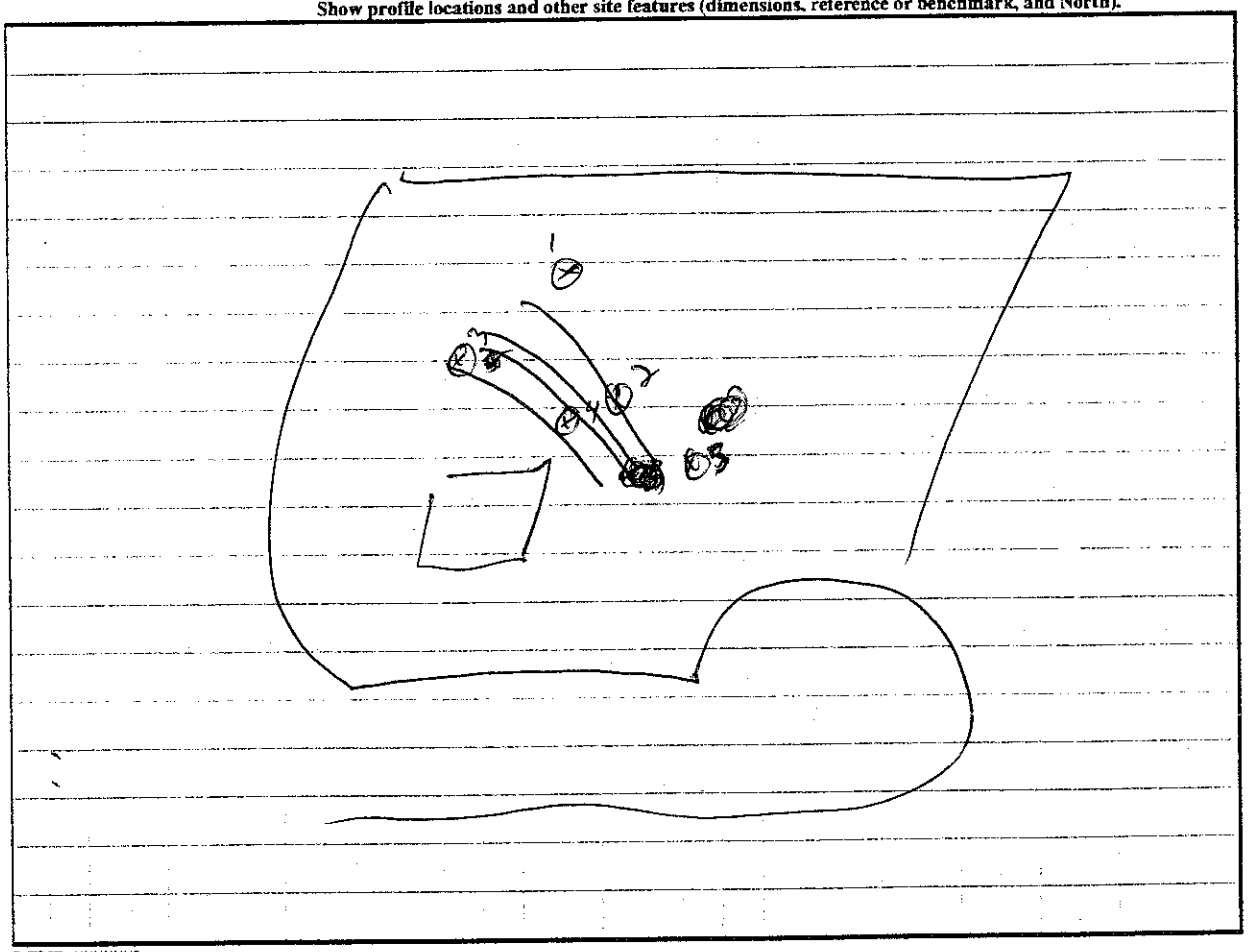
NOTES

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 (#####)

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Lake Norman Properties APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: 3/8/97
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Harborwatch Sec. 6 Lot # 148 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) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1		0-8	Brn SCL	GRFR					PS .3
		8-37	Rd/Brn C	m-wSBK S,SP,SE,FI-FR					
		37-49	Rd/Brn C	w SBK S,SP,SE,FR w/ few to Manv SAP Indos					
2		0-8	Brn SCL	GRFR					PS .25
		8-36	Rd/Brn C	m S,P,SE,FI-FR					
		36-52	Rd/Brn C	mixed w/ Yel/Brn Mottles (Tiger Dirt)					
3		0-8	Brn SCL	GRFR					PS .25
		8-24	Rd/Brn C	m-wSBK S,P,SE,FI-FR					
		24-50	Rd/Brn C	m-wSBK S-SS,SP,SE,FR w/ lots of Rock Fragments					
4									

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

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: _____
OTHER(S) PRESENT: _____

LEGEND

use the following standard abbreviations.

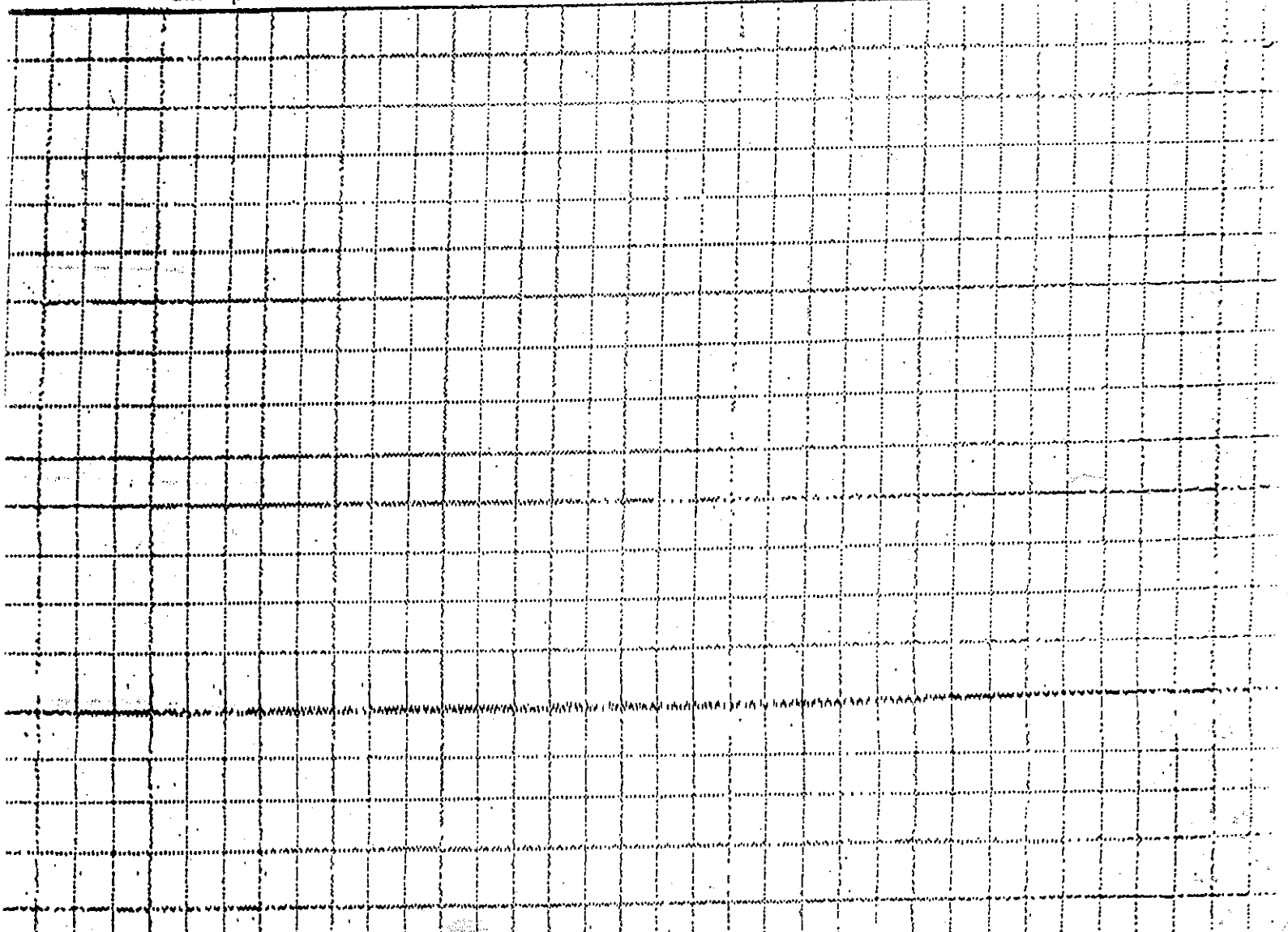
LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL 1955 LTAR	EPP 1957 LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
C (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
V (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
(Drainage Way)					EXP (Expansive)	CR (Crumb)
S (Debris-Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
P (Flood Plain)		L (Loam)				SBK (Subangular Blo
S (Foot Slope)						ABK (Angular Blocky
(Head Slope)	III	SI (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
(Linear Slope)		SICL (Silty Clay Loam)				PR (Prismatic)
(Nose Slope)		CL (Clay Loam)				
(Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
Shoulder Slope)		SLC (Silt Loam Clay)				
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)

TES	
RIZON DEPTH	In inches below natural soil surface
PTH OF FILL	In inches from land surface
STRUCTIVE HORIZON	Thickness and depth from land surface
ROLITE	S(suitable) or U(unsuitable)
L 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 designatio
SSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

luation of saprolite shall be by pits.

g-term Acceptance Rate (LTAR): gal/day/ft²

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



for ON-SITE WASTEWATER SYSTEM

OWNER: Lake Norman Properties APPLICANT: _____

ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: 3/8/

PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____

LOCATION OF SITE: Harborwatch Sec. 6 Lot # 149 PERTY 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	.1946 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTA
1		0-13	Rd/Brw	C mSBK S,P,SE,F					
		13-33-36	Rd/Brw	C L-wSBK S,P,SE,F-FR					
			LW/ Some Mica Flake						
		33/36-52"	SAP (very Micaceous)						
		52"	SAP (Wet) - Brw						
2	Lt Side	0-24	Rd/Brw	C mSBK S,P,SE,F					
		24-45"	Rd/Brw	C wSBK S,P,SE,FR w/ lots of Mi					
				Grvl SAP Inclus					
		45"	SAP						
3	Rt Side	0-24"	Rd/Brw	C/C mSBK S,P,SE,F					
		24-	W. Rock/ SAP						
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
e Space (.1945)		

OTHER FACTORS (.1946): _____

SITE CLASSIFICATION (.1948): _____

EVALUATED BY: _____

OTHER(S) PRESENT: _____

