DEPARTMENT OF ENVIRONMENTAL HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICANT: Anthem Mfgd
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: 04/14/03
PROPOSED FACILITY: 4 BR HOME PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: _____
LOCATION OF SITE: @ END OF WILDLIFE 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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFIL. CLASS & LTAR
1	Slight H ~8%	0-8	W, sbk, SL	VFr, NS, NP	(W/ SAP INCLUSIONS)		(Chroma 2 Mottels)		PS 0.35
		8-30	sbk, SC	Fr, SS, SP					
		30-48	sbk, SC	Fr, SS, SP, SOSP					
2	Slight ~~B~~ ~8%	0-6	sbk/G, SL	VFr	(W/ SOME SAP INCLUS.)		(Chroma 2 Mottels @ ~24")		BS 0.30
		6-12	sbk, SC	Fr, SS, SP					
		12-48	sbk, C	Fr, S, SP, SOSP					
3	Slight H	0-6	sbk/G, SL	VFr	Yellow Mottels (Chroma 2 Mottels)				PS 0.30
		6-19	sbk, SC	Fr, SS, SP					
		19-48	sbk, C	Fr, S, SP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	EQ to 1,600	EQ to 1,600
System Type(s)	III	IV
Site LTAR	0.30	0.30

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

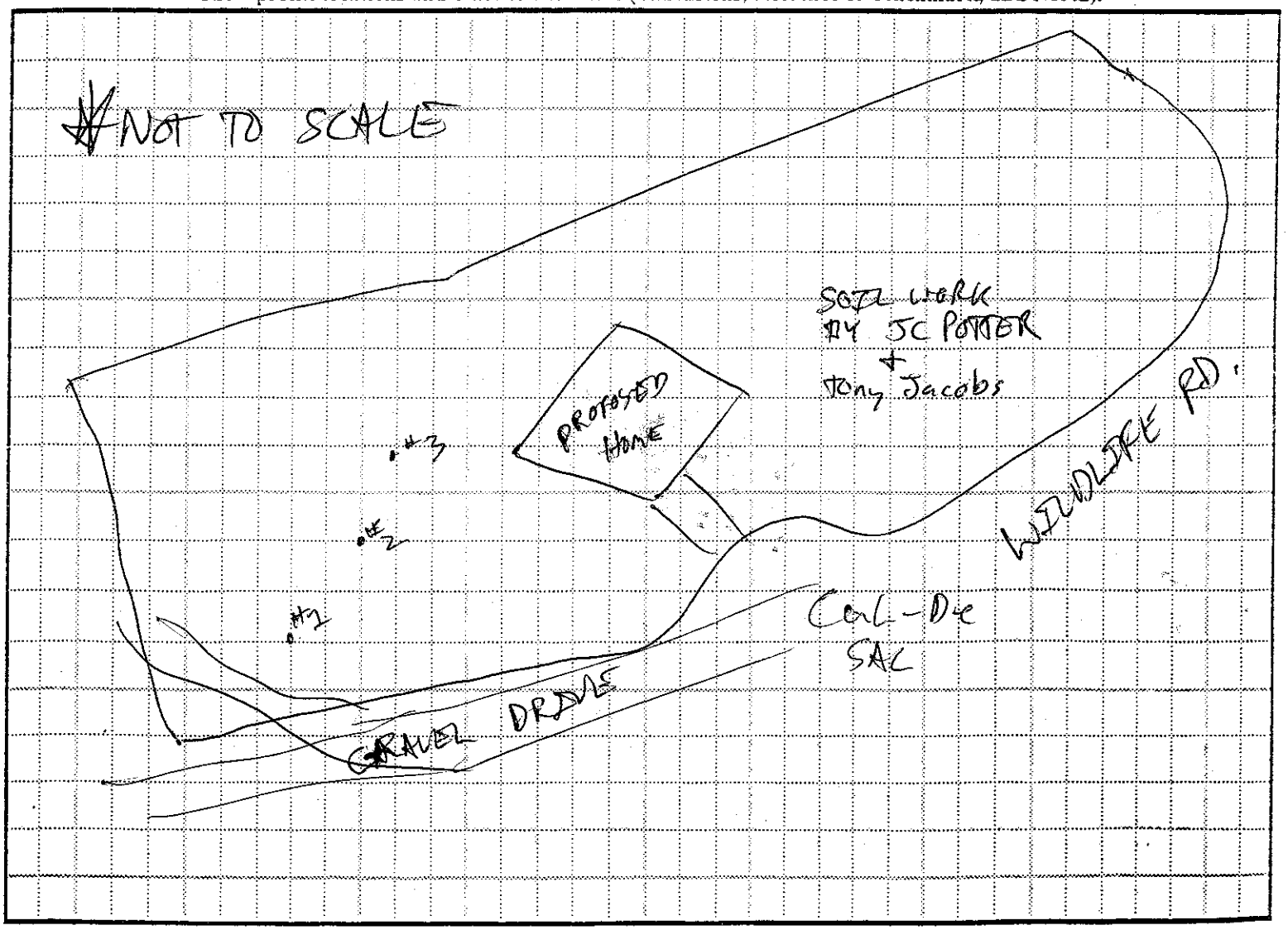
NOTES

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).



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

Sheet ___ of _
PROPERTY ID #:
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICANT: Crescent Resources
ADDRESS: _____ APPLICATION DATE: 9.2.99 DATE EVALUATED: 9-15 99
PROPOSED FACILITY: 3 Bd Rm House PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: 1 Ac
LOCATION OF SITE: Lot 803 Wildlife Rd End of Road on Right 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
Pit 1	L	0-8	SAB W/G SCL	F,					PS .3
		8-20	SAB C	F,					
		20 50	SAB C	F,					
Pit 2	L 10%	0-9	SAB/G SCL	F,					PS .3
		9-30	SAB C	F,					
		30-48	SAB C	F,					
Pit 3		0-9	G SCL	F,					PS .3
		9-26	SAB C	F,					
		26-34	SAB W C	F					
		34+	SL	F,					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200	Same
System Type(s)		
Site LTAR	.3	Same

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Joe Potter
OTHER(S) PRESENT: Tony

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)

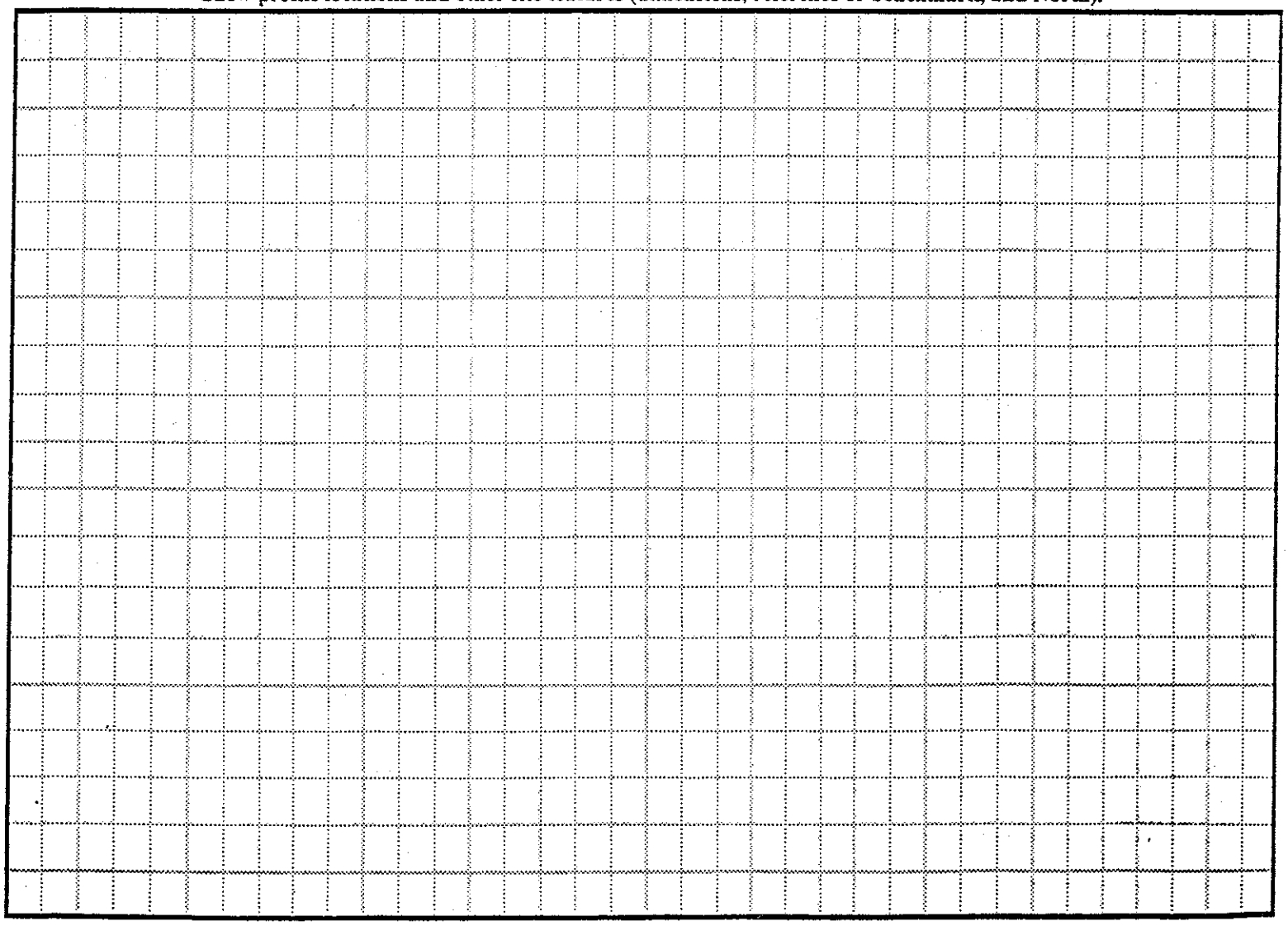
NOTES

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).



TCJ CONSULTING

SITE / SOIL EVALUATION

JOB: Barr PHONE: DATE: 9/16/25

LOCATION: PIN: COUNTY: PROPERTY SIZE:

PROPOSED FACILITY: WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut__

WEATHER: ANTECEDENT MOISTURE: SURFACE WATER:

Power Row

FACTORS	PROFILE_1	PROFILE_2	PROFILE_3	PROFILE_4
LANDSCAPE POSITION-%	T 10% to 15	25 10%		
HORIZON I DEPTH	0-6	0-9	0-9	0-6
Color - Munsell	10YR	10YR	10YR	10YR
Texture	scl	SCL	scl, cn, fc	scl
Structure	gr, m, w SAB	gr-m-SAB	gr, m	m-wk SAB
Consistence	fri	fri	fri	fri
	m wet	m wet	m wet	m wet
Boundary	g	g	g	
HORIZON DEPTH II	6-20	9-30	9-24 BC	6-15
Color - Munsell	10YR	10YR	10YR	10YR
Texture	c	c	c	c
Mottles	NA			
Structure	SAB	SAB	SAB	s-m SAB
Consistence	fri	fri	fri	fri
Boundary	c	c		
HORIZON III DEPTH	20-30	31-42	24-34 BC	15-24
Color - Munsell	10YR	10YR	10YR	10YR
Texture	lic, hcl	lic, cl	lic, hcl	
Mottles	NA			
Structure	SAB	SAB	WSAB	WSAB
Consistence	fri	fri	fri	fri
Boundary				
HORIZON IV DEPTH			34+	24-54
Color - Munsell			10YR 5/6	wet 10YR 5/6
Texture			scl	scl
Mottles				
Structure			m-wk	m-wk
Consistence			fri	fri to firm
Boundary				
SOIL WETNESS	NA	NA	NA	
RESTRICTIVE HORIZON	NA	NA	NA	
SAPROLITE	NA	NA	34	24
LTAR	.34	.34	.3	.3
CLASSIFICATION	PS	PS	PS	PS

LEGEND

LANDSCAPE POSITION
R - Ridge Interfluve
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
MOIST / WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB:_____ PHONE:_____ DATE:_____

LOCATION:_____ PIN:_____ COUNTY:_____ PROPERTY SIZE:_____

PROPOSED FACILITY:_____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut_____

WEATHER: _____ ANTECEDENT MOISTURE:_____ SURFACE WATER: _____

mid to down slope

FACTORS	PROFILE 5	PROFILE 6	PROFILE 7	PROFILE 8
LANDSCAPE POSITION-%	LS 25		LS 20%	LS 12%
HORIZON I DEPTH	0-30	0-6	0-46	0-36
Color - Munsell	red	red	red	red
Texture	c/sicl	cl	C/CL	C
Structure	SAB	SAB	SAB	SAB
Consistence	fri ss sp hs	fri	fri ss sp	fri
			intrusion of more loamy material	
Boundary	c	abrupt		
HORIZON DEPTH II	30-45	6-24		36-54
Color - Munsell	red	mixed BE+C		red
Texture	c/cl w/sap rock	cl+sicl cl		cl w/wtr sap rock
Mottles				
Structure	WF SAB			SAB
Consistence	fri ss sp			fri
				>54 sap rock
Boundary				
HORIZON III DEPTH	45-60	24-46		
Color - Munsell	red gel	bi red		
Texture	cl	SL		
Mottles	silt lam	red-lam		
Structure		WF		
Consistence	fri	fri NS NP		
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	.3	.3	.3	.3
CLASSIFICATION	PS	PS	PS	PS

9
LS mean I
0-26
red
C
SAB
fria ss sp

26-36
red yel
scl w/sap
rock

PS .3

36-46 PS Sap

LEGEND

LANDSCAPE POSITION
R - Ridge
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
MOIST / WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic