

FIELD DESCRIPTION OF SOIL PROPERTIES

Site No.: ST-1

Map Unit:

Aspect:

Described by: Lucy Piety, Joanna Redwine, Sarah Derouin,

Date: 8/17/2011

Parent Material: paludal sediment (1), colluvial and debris flow deposits (2, 3, 4), and weathered rock (5)

Elevation:

Quadrangle:

Lat/Long coordinates:

Location: North wall of south trench across from station 1 on trench log

Horizon	Depth (cm)	Boundaries	Structure ²	Clay Films ³	Consistence ¹			Texture ¹	Gravel %	CaCO ₃ Morphology ⁴	Color (dry)
					Stickiness	Plasticity	Dry				
C ⁵	0-8	ab	3vcabk	-	-	-	-		<10	-	2.5Y 5/2
2Btb1 ⁶	8-18	cs	2cabk	1fpo	-	-	-		<10	-	10YR 5/4
2Bt2b1	18-33	cs	3csbk to 2vcpr ppf	2fpf+1	-	-	-		<10	-	10YR 4/3
2Bt3b1	33-48	aw	3csbk	3ppf+ 1dpf	-	-	-		<10	-	10YR 5/4
3Akb2/Bt4b1	48-55	cw	3cpr	2fpf+1 dpf	-	-	-		<10		2.5Y 4/3
3Bwkb2/Bt5b1	55-59	cw	3cpr	2fpf+1 dpf	-	-	-		<10		2.5Y 5/3
3Bkb2/Bt6b1	59-63	aw	3cpr	2ppf+ 2dpf	-	-	-		<10	?	5Y 4/2 ⁷
4Cb3/Bk2b2/ Bt7b1	63-79	aw	3fabk	1dpf ⁸	-	-	-		>75 ⁸	I-I+	5Y 4/3
4C2b3/Bk3b2/ Bt8b1	79-90	cw	3fabk	1dpf	-	-	-		>75 ⁸		5Y 6/2
5Cr ¹⁰	90-112+	-	-	none	-	-	-		-		-

Notes:

- ¹Samples were not textured, but all are hard to very hard and may be silty clay or sandy silt
- ²Abbreviations for structure: grade: 2=moderate, 3=strong; size: f=fine, c=coarse, vc=very coarse; type: pr=prismatic, sbk=subangular blocky, abk=angular blocky
- ³Abbreviations for clay films: amount: 1=few, 2=common, 3=many; distinctness: f=faint, d=distinct, p=prominent; location: pf=clay films on ped faces, po=clay films in pores
- ⁴Abbreviations for carbonate morphology: l=few filaments or coatings on sand grains and thin discontinuous coatings on clasts, l+=common filaments and thin continuous coatings on clasts
- ⁵C horizon is limited in extent; described where unit has maximum thickness
- ⁶Although overlying C horizon is not continuous, added buried designation to recognize the existence of the overlying deposit
- ⁷Clay film color is 10YR 5/4
- ⁸>2-mm fraction includes gravel and cobbles up to 10 cm diameters and rare boulders; silty clayey matrix
- ⁹Clay films appear to be over the carbonate coats on clasts
- ¹⁰Weathered rock containing angular chips in layers

