

Appendix Table 2. Profile Descriptions for the Dal-Tex, Cannelton, and Hobet -21 Mine Sites

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
Dal-Tex											
1976-01 23-years-old (2% slope)	Oi	0--2									
	Oe	2--3							aw		
	A	3--7		2.5Y 5/3	SIL	2, f, sbk	fr		cw	many, vf-c	20% SS
	AC	7--22		2.5Y 5/3, 10YR 5/6, 10YR 6/2, N 2.5/0	SICL	1, m-c, sbk	fr		cw	com, vf-c	30% SS, MS, C
	C	22--65		7.5YR 5/8, 10YR 5/6, 2.5Y 7/4, 10YR 6/2 N 2.5/0	SICL	0, ma	fr		aw	few, vf-f	35% SS, MS, C
	2Cr	65--79			Gray shale and mudstone				aw		
	2R	79+			Sandstone						
1976-02 23-years-old (30% slope)	Oi	0--3									
	Oe	3--6							aw		
	A	6--13		10YR 4/2, 10YR 5/3	L	1, m, sbk	fr		cw	many, vf-m	4% SS, MS, C
	AC	13--31		10YR 4/2	L	1, m-c, sbk	fr		cw	few, vf-m	50% SS, MS, C
	C/B	31--75		2.5Y 5/3	LS	80% 0, ma 20% 1, f, sbk	vfr		gw	com, vf-m	65% SS, MS, C
	C	75--105+		2.5Y 5/2	LS	0, ma	vfr		aw	few vf-m	75% SS
2R	79+			Sandstone							

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
1976-05 23-years-old (4% slope)	Oe	0--3				Partially decomposed litter			aw		
	A	3--8		10YR 3/3	LS	2, f, gr	vfr	6.2	cw	many, vf-m	30% SS, C
	AC	8--26		10YR 4/1, 10YR 4/2	SL	1, m, sbk breaking to 1, m, gr	fr	6.0	cw	many, vf-m	50% SS, C
	C1	26--61	few, f-m 10YR 5/8	10YR 4/2	SL	0, ma	fr	8.0	gw	few, vf-f	80% SS, C
	C2	61+				Fragmental--large sandstone boulders with large voids					
1976-06 23-years-old (23% slope)	Oi	0--2				Leaf and stem litter					
	Oe	2--5				Partially decomposed litter			aw		
	A	5--11		2.5Y 5/3	L	1, f-m, sbk breaking to 1, m, gr	fr		cw	many, vf-m	30% SS, CO, MS
	Bw	11--26	com, f-m, 10YR 5/8, 10YR 3/1	10YR 5/4	L	1, m-c, sbk	fr		cw	com, vf-c	40% SS, CO, MS, C
	C	26--120+	com, f-m, 10YR 5/6, 10YR 3/1, 7.5YR 5/6	10YR 4/3	L	0, ma	fr			few, f-m	60% SS, MS, C
1988-01 11-years-old (1% slope)	Oe	0--3		10YR 4/2	Root Mat		fr		as	many, vf-f	
	A	3--11		2.5Y 5/3	SL	1, m, sbk breaking to 2, m, gr	fr		aw	many, vf-f	26% SS, C
	AC	11--37		2.5Y 5/1	L	1, m, sbk	fr		cw	com, vf-f	40% SS, C, MS
	C1	37--89		10YR 5/3	SL/LS	0, ma	fr		gw	few, vf-f	70% SS, C
	C2	89--160+		2.5Y 5/3	SL	0, ma	fr			vfew, vf-f	70% SS, MS, C

(Sandstone in all horizons with low and high chroma)

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
1988-02 11-years-old (44% slope)	Oi	0--3	Root mat	10YR 3/3					as	many, vf-f	
	A	3--12		10YR 4/6	L	1, m, sbk breaking to 2, m, gr	fr		cw	com, vf-m	30% SS
	AC	12--41		10YR 4/6	SL	1, f-m, sbk	fr		aw	few, vf-m	35% SS, C
	C1	41--75		10YR 4/2	SL	90% 0, ma 10% 2, f, sbk	vfr		gw	com, vf-m	70% SS, MS, C
	C2	75--125+		10YR 4/2	SL	0, ma	vfr			few, vf-f	70% SS, MS, C
1988-03 11-years-old (7% slope)	A	0--3		10YR 4/2	SL	1-2, m, sbk	vfr		aw	many, vf-f	20% SS
	AC	3--16		10YR 4/1	SL	1, m, sbk	fr		cw	com, vf-f	50% SS, C
	C1	16--49		2.5Y 4/1	SL	0, ma	fr		aw	few, vf	60% SS, C
	C2	49--91		10YR 4/3	SL	0, ma	fr		cw	few, vf	50% SS, C
	C3	91--125+	com, f, 10YR 5/6	10YR 4/4	CL		fr			vfew, vf	50% SS, C

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
1988-04 11-years-old (34% slope)	Oe	0--2					Root mat-partially decomposed leaves and roots		aw	many, vf-m	30% SS
	A	2--10		10YR 4/3	SL	2, f-m, gr	vfr		cw	many, vf-m	50% SS
	C1	10--24		10YR 5/4	SL/LS	95% 0, ma 5% 1, m, sbk breaking to 1, m, gr	fr		cw	com, vf-m	60% SS, C
	C2	24--59		10YR 5/4, 10YR 5/8	SL/SCL	95% 0, ma 5% 1, m, sbk	fr		cw	few, vf-m	SS, C
	C3	59--114		10YR 4/6, 10YR 5/6	L	0, ma	fi in place fr in hand		aw	vfew, vf-m	SS, C SS, C
	C4	114--125+	com, f, 10YR 5/6	10YR 4/1	L/CL	0, ma	fr				60% SS, C
1988-05 11-years-old (8% slope)	A	0--9		10YR 3/3	SL	1, m, sbk breaking to 1, f, gr	vfr		cw	many, vf-f	30% SS
	C1	9--22		10YR 4/1	SL	0, ma	fr		cw	com, vf-f	55% SS, MS, C
	C2	22--45		2.5Y 4/2	SL	0, ma	fr		gw	few, f-vf	70%
	C3	45--79		2.5Y 4/1	LS	0, ma	fr		gw	few, vf-f	55% SS, MS, C
	C4	79--135+		2.5Y 4/1	SL	0, ma	fr			vfew, vf	50% SS, MS, C

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
1988-06 11-years-old (48% slope)	A	0--7		10YR 3/3, 10YR 4/3	L	2, f-m, gr	vfr		cw	many, vf-f	30% SS
	AC	7--36		10YR 4/3	L	1-2, m-c, sbk	fr		gw	com, vf-f	60% SS, C
	CB	36--72	few, m-c, 7.5YR 5/6	10YR 4/3	SL	1, c, sbk	fr		cw	few, vf-f	75% SS, C
	C	72--150+		2.5Y 5/3	SL	0, ma	fi in place fr in hand		gw	vfew, vf-f	50% SS, C
1992-01 7-years-old (0.5% slope)	A	0--8		10YR 3/3	SL	1, m, sbk breaking to 2, vf-f, gr	vfr	7.5	cw	many, vf-f	25% SS
	C1/B	8--30		2.5Y 4/3	LS	75%, 0, ma 25%, 1, f-m, sbk	fr	8.0	gw	com, vf-f	60% SS, MS, C
	C2/B	30--77		10YR 4/2	LS	90%, 0, ma 10%, 1, f, sbk	fr	8.0	cw	few, vf-f	70% SS, MS, C
	C	77--125+	com, f, 10YR 6/8	10YR 5/4	LS	0, ma	vfr	8		few, vf-f	75% SS, MS, C
1992-02 7-years-old (27% slope)	Oi	0--2			Leaf and stem litter						
	A	2--8		10YR 4/1	SL	2, f-m, gr	vfr		cw	many, vf-f	25% SS
	AC	8--24		10YR 4/1	SL	1, m, sbk	fr		ci	com, vf-f	40% SS, MS, C
	C1/B	24--60		10YR 4/2, 10YR 4/3	SL	90% 0, ma 10% 1, m, sbk	fi in place fr in hand		gw	com, vf-f	50% SS, C
	C2/B	60--107		10YR 4/2	SL/LS	90% 0, ma 10% 1, m, sbk	fi in place fr in hand		gw	few, vf-f	50% SS, MS, C
	C	107-207+		10YR 4/2	SL/LS	95% 0, ma 5% 1, m, sbk (roots continue past 207 cm)	vfr			few, vf-f	50% SS, MS, C

Appendix Table 2. Continued

Site ID &	Horizon	Depth	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵	pH	Boundary ⁶	Roots ⁷	Rock ⁸
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Soil Age	(cm)		Consistence						Fragments		
1992-03 7-years-old (1% slope)	Oe	0--2			Partially decomposed organic matter			aw			
	A	2--6		10YR 4/1	L	2, f, sbk breaking to 1, f-m, sbk	vfr	cw	many, vf-f	30% SS, MS	
	AC	6--24	few, c, 7.5 YR 5/6	10YR 3/1	L	1, c, sbk 2, m, sbk-- around roots	fr	aw	com, vf-f	25% MS, SS	
	C/B	24--48		2.5Y 5/3	SL	60% 0, ma 40%, 2, f-m, sbk	fr	gw	com, vf-f	71% SS, C	
	C1	48--66		10YR 5/3	SL	95%, 0, ma 5%, 1, m, sbk	fi in place fr in hand	gw	few, vf-f	75% SS, MS, C	
	C2	66--97		10YR 5/3	SL	0, ma	fr	gw	few, vf-m	75% SS, MS, C	
	C3	97--160+		10YR 5/3	SL	0, ma	fr	gw	vfew, f-m	90% SS, MS	
1992-04 7-years-old (33% slope)	A	0--7		10YR 3/1	SL/L	2, m, gr	vfr	4.2	cw	many, vf-m	15% SS
	Bw	7--21	com, f, 10YR 5/6	10YR 4/2, 10YR 5/3	SL	1, m, sbk	fr	4.2		com, vf-m	30% SS
	C1	21--42		2.5Y 5/3	SL/LS	0, ma	fi in place fr in hand	4.2	gw	few, vf-m	45% SS, MS, C
	C2	42--101		2.5Y 5/3	SL/LS	0, ma	fi in place fr in hand	4.2	cw	none	45% SS, MS, C
	C3	101--160+		2.5Y 5/3	SL/LS	0, ma	fr			none	56% SS, MS, C

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
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1992-05 7-years-old (1% slope)	Oe	0--2		Partially decomposed leaf and stem litter				aw		35%
	A	2--6	2.5Y 3/2	SL	1, f-m, gr	vfr	6.0	cw	many, vf-m	35%
	AC	6--24	2.5Y 4/1, 2.5Y 3/1	SL	1-2, f-m, sbk	fr	6.5	cw	com, vf-m	50%
	C1/B	24--48	2.5Y 3/1	L	60%, 0, ma 40%, 1, f, sbk breaking to 1, f, gr	fr	7.0	gw	com, vf-m	60%
	C2/B	48--66	2.5Y 3/1	L	85%, 0, ma 15%, 1, f, sbk breaking to 1, f, gr	vfr/l	6.5		few, vf-m	70%
(Roots continue past lowest horizon described)										
1992-06 7-years-old (39% slope)	A1	0--10	10YR 3/2, 10YR 4/2	SL	2, f-m, gr	vfr	4.2	cw	many, vf-m	30%
	A2	10--19	10YR 5/3	SL	1, m, gr	vfr		cw	many, vf-m	35%
	AC	19--32	10YR 6/4	SL	1, m, sbk breaking to 1, m, gr	fr	4.2	cw	com, vf-m	40%
	C1	32--73	10YR 5/4	LS/SL	75%, 0, ma 25%, 1, m, sbk	vfr	4.2	gw	few, vf-m	50%
	C2	73--110+	10YR 5/4	SL	0, ma	vfr	4.5		vfew, vf-f	50%

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
1997-01	Oi	0--1			Grass stems						

2-years-old (15% slope)	A	1--4		10YR 4/3	SL	1, f, gr	vfr	cw	many, vf-f	40%	SS, MS, C
	AC	4--10		10YR 4/3	SL	1, m, sbk	fr	cw	com, vr-f	40%	SS, MS, C
	C1	10--41	com, f-m, 2.5Y 6/6, N 2.5/0	2.5Y 4/2	L/SL	0, ma	vfr	gw	few, vf-f	50%	SS, C, MS
	C2	10--92	com, m, N 2.5/0, 10YR 5/6, 7.5YR 5/8 2.5YR 5/8, 2.5Y 6/6 10YR 6/6	2.5Y 4/3	SL	0, ma	fr	aw	few, vf-f	60%	SS, C, MS
	C3	92--150+	few, f, 2.5Y 7/1	7.5YR 5/8	LS	0, ma	fi in place fr in hand			90%	SS
	1997-02 2-years-old (43% slope)	Oi	0--2				Grass and legume stems				
	A	2--6		2.5Y 3/2	SL	1, f-m, gr	vfr	cw	com, vf-m	30%	SS, MS, C
	C1	6--51	com, f-m, 10YR 5/6, N 2.5/0, 10YR 4/4	2.5Y 3/2	SL	90%, 0, ma 10%, 1, f, sbk	fr	gi	few, vf-m	50%	SS, MS, C
	C2	51--104	com, f, N 2.5/0, 10YR 5/6	10YR 5/2	L/SL	0, ma	fi in place	ci	few, vf-f	75%	SS, MS, C
	C3	104--140+	few, m, N 2.5/0	10YR 3/2, 10YR 4/2	SL	0, ma	fr		vfew, vf-f	40%	SS, MS, C

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
1997-03 2-years-old	Oi	0--1				Grass and legume stem litter					
	A	1--7		2.5Y 3/2	L	1, m, sbk	fr		cw	many, vf-m	20%

1997-06 2-years-old (53% slope)	AC	5--22	few, f-m, N 2.5/0, 2.5 6/4	2.5Y 4/2	SL	1, m, gr 1, f-m, sbk	fi	aw	com, vf-f	35% MS, SS, C	
	C	22--64	many, f-m, 2.5Y 6/4, 7.5YR 5/6, N 2.5/0	2.5Y 4/3, 2.5Y 4/1	CL	0, ma	fi	aw	few, vf-m	40% SS, MS, C	
	2Cr	64--91+	Soft grey mudstone								
	Oi	0--2	Grass and legume stem litter								
	A	2--8		10YR 3/3	SL	1, f, gr	fr	aw	many, vf-f	30% SS, MS, C	
	AC	8--14		10YR4/2, 10YR 5/6	SL/L	1, f-m, sbk	fr	aw	many, vf-f	30% SS, MS, C	
Native-01 (31% slope)	C/B	14--29	com, c, 10YR 5/6	2.5Y 4/3	SL	75% 0, ma 25% 1, f, sbk	fr	gw	many, vf-m	70% SS, MS, C	
	C	29--120+	few, m, N 2.5/0	2.5Y 5/3, 10YR 6/1	SL	0, ma	fi		few, vf-m	70% SS, MS, C	
	Oi	4--0	Leaf and twig litter								
	A	0--9		10YR 2/2	SIL	2, f, gr	vfr	aw	many, vf-c	5% SS	
	BA	9--18		10YR 4/2	SIL	1, m, sbk breaking to 1, m, gr	vfr	aw	many, f-c	10% SS	
	Bw1	18--43		10YR 6/4	SIL	2, m-c, sbk	fr	gw	com, f-m	25% SH	
Bw2	43--67		10YR 5/6	SIL	2, f-m, sbk	fr	ab	few, f-m	40% SS		
R	67--104+	Shale									

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
Native-02 (58% slope)	Oi	5--0			Leaf and twig litter						
	OA	0--2			Decomposed oraganic matter						
	A/E	2--5		10YR 3/1, 10YR 4/2	SL	1, f, gr	vfr		aw	many, vf-m	20% SS

	BA	5--23		10YR 5/6	SL/LS	1, f, sbk and 1, f, gr	vfr/l		cw	many, vf-c	40% SS
	Bw	23--59		10YR 6/6	SL/LS	1, m, sbk	fr		gw	com, f-vc	45% SS
	BC	59--88		10YR 6/6	SL/LS	1, m-c, sbk	fr		aw	com, f-vc	55% SS
	R	88-107+		Fractured sandstone, with few roots in fractures							
Cannelton											
1970-01	Oi	0--1									
30-years-old (2% slope)	A	1--4		10YR 3/3	SIL	2, f, gr	vfr	5.3	aw	many, vf-m	1%
	AC	4--13		10YR 6/3, 7.5YR 5/6 10YR 6/1, N 2/0	SICL	1, m, sbk	fr	4.7	cw	com, f-m	10% MS, SS, C
	C	13--43+		7.5 YR 6/6, 7.5YR 7/1 10YR 6/1, N 2/0 10YR 6/3	SICL	0, ma and 1, t, pl	fi	5.0		few, vf-f	25% MS, SS, C
1970-02	Oi	0--1									
30-years-old (2% slope)	A	1--4		10YR 4/3	L	2, f-c, gr	vfr	6.5	aw	many, vf-m	1%
	AC	4--46		2Y 5/3, 10YR 5/6, N 2/0, 7.5YR 4/6	L	1, f-m, sbk	fr	7.0	cw	com, vf-m	20%
	C	16--40+		2Y 5/3, 10YR 5/6, N 2/0, 7.5YR 4/6	SL	0, ma		8.0		vfew, m	85%

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
1970-03	Oi	0--1									
30-years-old (2% slope)	A	1--3		10YR 3/2	L	2, f-m, gr	vfr	6.5	cw	many, vf-m	5%
	AC	3--15		N 2/0, 7.5YR 4/6, 10YR 5/2, 10YR 6/1, 7.5YR 6/8	SICL	2, m, sbk breaking to 2, f-c, gr	fr	7.0	gw	com, vf-m	25%

1984-01 16-years-old (10% slope)	C	15--45+	N 2/0, 7.5YR 4/6, 10YR 5/6, 10YR 5/8, 10YR 5/2		0, ma	fi	8.0		few, f-m	50%
	Oi	0--3								
	A	3--7	10YR 4/2	SL	1, f, gr	vfr	7.5	cw	com, vf-f	0
1984-02 16-years-old (5% slope)	AC	7--14	2.5Y 5/2	LS	1, f, sbk	vfr	8.0	cw	few, vf-f	60%
	C	14--50+	2.5Y 5.2	LS	0, ma	l	8.0		vfew, vf	70%
	Oi	0--2								SS, C, MS 70% SS, C, MS
1984-03 16-years-old (5% slope)	A	2--8	2.5Y 4/2	SICL	2, m-c, gr breaking to 2, m, sbk	fr	7.0	cw	many, vf-m	35%
	AC	8--18	2.5YR 5/2, 10YR 5/6	SICL	1--2,c,gr breaking to 2, f, sbk	fi	8.0	cw	com, f-m	50%
	C	18--45+	2Y 5/2, 10YR 5/6	CL	0, ma		8.0		vfew, f	75%
1984-03 16-years-old (5% slope)	Oi	0--2								SS, SH
	A	2--7	2.5Y 4/2	SIL	2, f-m, gr	fr	7.0	cw	many, f-m	35%
	AC	7--17	2.5Y 4/1, 7.5YR 5/8, N 2/0	L	1, f-m, sbk	fi	8.0	aw	few, f-m	65%
	C	17--40+	10YR 4/1, N 2/0	SL	l		8.0		vfew, f-m	85%

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
Native-01 (70% slope)	Oi	0--5									
	A	5--17		10YR 4/3	SIL	2, f-m, gr	vfr	5.5		many, f-m	5%
	Bw1	17--33		10YR 4/4	SIL	1, m, sbk breaking to 2, f-c, gr	fr	5.0		many, m-c	15%
	Bw2	33--50+		10YR 5/6	SIL	1, m, sbk	fr	5.0		few, m-c	30%

Native-02 (45% slope)	Oe	0--4				breaking to 2, f-c, gr					
	A	4--12	10YR 3/3	SIL	2, f-m, gr	fr	5.5	aw	many, vf-f	5%	
	AB	12--18	10YR 3/4	SIL	1, f, sbk	fr	5.5	cw	com, vf-f	5%	
	Bw1	18--31	10YR 3/4	SIL	breaking to 2, f-c, gr	fr	5.5	cw	com, vf-c	10%	
					2, m, sbk						
Bw2	31--45+	10YR 4/4	SIL	breaking to 2, f-c, gr	fr	5.5		few, m-c	10%		
(Very few discontinuous clay films in Bw1 and few discontinuous clay films in Bw1)											
Native-03 (67% slope)	Oi	0--3									
	A	3--16	10YR 4/2	SIL	1, f-m, sbk	fr	5.5	aw	many, vf-c	25%	
	Bw1	16--29	10YR 5/4	SIL	breaking to 2, f-m, gr	fr	5.5	cw	few, f-c	40%	
					2, f-m, sbk						
Bw2	29--45+	10YR 5/6	SIL	2, m, sbk	fr	5.5		vfew, f-m	60%		
(few discontinuous clay films in lower horizons)											

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
Hobet-21											
1983-01 17-years-old (12% slope)	Oi	0--2			Leaf and twig litter						
	A	2--4		2.5Y 3/2	SIL/L	1, f, sbk	fr		cw	many, vf-c	20%
	AC	4--16	2.5Y 5/2	L	breaking to 2, m, gr	1, f, sbk	fr		cw	many, vf-m	50%
SS,C											

1992-03 8-years-old (5% slope)	Oi	0--1		Leaf litter from forages						
	A	1--5	2.5Y 4/2	L	1, f-m, gr	vfr		cw	many, vf-m	25% SS
	AC	5--11	2.5Y 4/2	SL	1, f, sbk breaking to 2, m, gr	vfr		cw	many, vf-m	25% SS
Native-01 (45% slope)	C	11-45+	2.5Y 4/2	SL	0, ma	fr			few, vf-f	80% SS
	Oi	0--3		Leaf and twig litter						
	Oe	3--4								
	A	4--13	10YR 4/2	SL	2, f-m, gr	vfr	5.5	aw	com, vf-m	5% SS
	E	13--27	10YR 6/4	SL	1, m, sbk	fr	5.5	cw	com, vf-c	5% SS
	Bt1	27--44	10YR 5/6	SCL	2, m, sbk	fr	5.5	gw	few, vf-c	5%
Bt2	44--57+	10YR 5/6	CL	2, m, sbk	fr	4.8		few, vf-c	10% SS	
(few patchy clay films on ped faces and in pores in the Bt1 and common patchy clay films on ped faces and in pores on Bt2)										

Appendix Table 2. Continued

Site ID & Soil Age	Horizon	Depth (cm)	Mottling ¹	Moist Color ²	Texture ³	Structure ⁴	Moist ⁵ Consistence	pH	Boundary ⁶	Roots ⁷	Rock ⁸ Fragments
Native-02 (70% slope)	Oi	0--5			Leaf and twig litter						
	A	5--11		10YR 3/3	SL	2, f, gr	vfr	5.5	cw	many, vf-c	15 SS% SS
	BA	11--26		10YR 4/4	SL	1, f, sbk breaking to 1, f-m, gr	vfr	5.2	cw	many, vf-vc	20% SS
	Bw1	26-38		10YR 5/4	SL	1, m, sbk	fr	5.2	gw	com, f-vc	20% SS
	Bw2	38--60+		10YR 5/4	SL	1, m, sbk	fr	4.7		com, f-vc	25%

Native-03 (72% slope)	Oi	0--5		Leaf litter							SS
	Oe/Oa	5--9									
	A	9--17	10YR 3/2	SL	2, f-m, gr	vfr	4.7	cw	many, vf-m	20%	SS
	AB	17--35	10YR 3/4, 10YR 5/6	SL	2, f-m, gr	vfr	5.0	cw	many, vf-vc	35%	SS
	Bw1	35--51	10YR 5/6	SL	1, m, sbk	fr	5.0	gw	many, vf-c	35%	SS
	Bw2	51--81+	7.5YR 4/6	SL	1, m, sbk	fr	4.5		com, vf-c	45%	SS

¹-f=fine, m=medium, c= coarse, com=common

²-Colors derived with Munsel color book

³-CL=clay loam, L=loam, LS= loamy sand, SCL=sandy clay loam, SICL=silty clay loam, SIL=silt loam, SL=sandy loam

⁴-0=structureless, 1=weak, 2=moderate

vf=very fine, f=fine, m=medium, c=coarse, t=thick

gr=granular, ma=massive, pl=platy, sbk=subangular blocky

⁵-fr=friable, fi=firm, L=loose, vfr=very friable

⁶-aw=abrupt wavy, cw=clear wavy, gw=gradual wavy, ab=abrupt broken, ci=clear irregular, gi=gradual irregular, as=abrupt smooth

⁷-com=common, vfew=very few, vf=very fine, f=fine, m=medium, c=coarse, vc=very coarse

⁸-C=carbolithic material, CO=conglomerate, MS=mudstone, SH=shale, SS=sandstone