Project Name: CAN

Project Code: CAN Site ID: CP78 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: Date Desc.: P.H. Walker Locality: Elevation: 01/08/77 660 metres Sheet No.: 8727 1:100000 Map Ref.: Rainfall: 640 Northing/Long.: 149.111944444444 Runoff: Slow Easting/Lat.: -35.2711111111111 Drainage: Well drained

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: 1.2 m deep,Porous, Unconsolidated

material (unidentified)

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:Alluvial fanMorph. Type:Lower-slopeRelief:No DataElem. Type:HillslopeSlope Category:Gently inclinedSlope:5.5 %Aspect:45 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AAcidic Mesotrophic Red KandosolPrincipal Profile Form:GnASC Confidence:Great Soil Group:N/A

No analytical data are available but confidence is fair. <u>Site Disturbance:</u> No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile	<u>Morphology</u>	
A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Moist; Firm consistence; Field pH 6.5 (pH meter); Clear change to -
A1	0.1 - 0.2 m	Dark brown (10YR3/3-Moist); ; Sandy loam; Massive grade of structure; Moist; Firm consistence; Field pH 5.1 (pH meter); Clear change to -
	0.2 - 0.5 m	;
A22	0.3 - 0.4 m	Yellowish brown (10YR5/5-Moist); Yellow (10YR7/5-Dry); ; Loamy fine sand; Massive grade of structure; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 4.7 (pH meter); Gradual change to -
A23	0.4 - 0.5 m	Strong brown (7.5YR5/5-Moist); Reddish yellow (7.5YR6/5-Dry); ; Sandy loam; Massive grade of structure; Dry; Firm consistence; 2-10%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 4.8 (pH meter); Clear change to -
B1	0.5 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; 2-10%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 4.9 (pH meter); Gradual change to -
B2	0.6 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, dispersed, Gravel, coarse fragments; Field pH 5.1 (pH meter); Gradual change to -
B2	0.7 - 0.8 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, dispersed, Gravel, coarse fragments; Field pH 5.2 (pH meter); Gradual change to -
В3	0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; 0-2%, dispersed, Gravel, coarse fragments; Field pH 5.1 (pH meter); Gradual change to -
ВС	0.9 - 1 m	Yellowish brown (10YR5/5-Moist); , 10R46, 20-50%; , 2.5Y62, 20-50%; Light clay; Weak grade of structure, <2 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 5.3 (pH meter); Gradual change to -

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Dark yellowish brown (10YR4/6-Moist); , 10YR56, 2-10%; , 2.5Y62, 2-10%; Light clay; Massive grade of structure; Dry; Very strong consistence; Field pH 5.4 (pH meter); Gradual change to -1 - 1.1 m

вС ; Light clay; Massive grade of structure; Dry; Very strong consistence; Field pH 5.6 (pH meter); 1.1 - 1.2 m

Morphological Notes

Observation Notes

FANGLOMERATE 100-200CM TUBULES IN 2.5Y 6/2

Site Notes

BLACK MOUNTAIN

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Laboratory Test Results:													
Depth	рН	1:5 EC	Exc	hangeable	Cations	E	xchangeable	CEC	ECEC		ESP		
m		dS/m	Ca	Mg	K	Na Cmol (+)/	Acidity kg				%		
0 - 0.1	6.5A	<0.04A	3.6K	1.9	0.12	0.33	4.1B	10.1J			3.27		
0.1 - 0.2	5.1A	0.05A											
0.2 - 0.3	4.8A 0.0		0.17K	0.28	0.11	0.27	8.8B	9.6J			2.81		
0.3 - 0.4	4.7A	0.06A											
0.4 - 0.5	4.8A	0.06A											
0.5 - 0.6	4.9A	0.05A		0.73	0.36	0.17	9.2B	10.7J			1.59		
0.6 - 0.7	5.1A	<0.04A	0K	1.1	0.43	0.17	10.5B	12.2J		1.39			
0.7 - 0.8	5.2A	<0.04A											
0.8 - 0.9	5.1A	0.04A	0K	2	0.56	0.26	16.9B	19.6J			1.33		
0.9 - 1	5.3A	<0.04A											
1 - 1.1	5.4A	<0.04A											
1.1 - 1.2	5.6A	<0.04A	0K	2.8	0.26	0.28	12.6B	15.9J			1.76		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk		Size				
		С	Р.	Р	N	K	Density	GV CS	FS	Silt	Clay		
m	%	%	mg/kg	%	%	%	Mg/m3		%				
0 - 0.1		0.8D			0.0	6B							
0.1 - 0.2		1.24D			0.05								
0.2 - 0.3		0.9D	0.044B										
0.3 - 0.4		0.37D			0.02								
0.4 - 0.5		0.23D			0.0								
0.5 - 0.6		0.22D			0.02								
0.6 - 0.7		0.2D			0.02								
0.7 - 0.8		0.21D			0.0								
0.8 - 0.9		0.21D 0.18D											
0.9 - 1													
1 - 1.1		0.11D			0.02								
1.1 - 1.2		0.1D 0.11D			0.02								
1.1 - 1.2		0.110			0.02	-10							
Depth	COLE		Grav	rimetric/Vo	lumetric V	Vater Conte	ents	K	sat	K unsa	at		
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 15 I						
m				g/	g - m3/m	3		m	m/h	mm/h			
0 - 0.1													
0.1 - 0.2													
0.2 - 0.3													
0.3 - 0.4													
0.4 - 0.5													
05-06													

0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9

0.9 - 1 1 - 1.1 1.1 - 1.2

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Laboratory Analyses Completed for this profile

Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon 13C1_FE 15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_CEC CEC - meq per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded

Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B 15_NR_MG 15_NR_NA

15G_C_AL1

Air-dry moisture content 2A1 EC of 1:5 soil/water extract 3A1 4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method

Total nitrogen (%) - Not recorded 7_NR