Project Name: CAN
Project Code: CAN **Site ID:** CP238 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	**Locality:**	Harden
Date Desc.:	14/11/84	**Elevation:**	520 metres
Map Ref.:	Sheet No. : 328783 1:50000	**Rainfall:**	No Data
Northing/Long.:	148.4469444	**Runoff:**	No Data
Easting/Lat.:	-34.5275 Datum: AGD66	**Drainage:**	Well drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Granite

Landform

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	80 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
N/A

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gm3.12
Great Soil Group: Red earth

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

AP 0 - 0.08 m Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Weak consistence; Clear change to -

B11 0.08 - 0.17 m Dark red (2.5YR3/6-Moist); ; Clay loam (Heavy); Moderate grade of structure, Angular blocky; 50-100 mm; Weak consistence; Gradual change to -

B12 0.17 - 0.23 m Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Gradual change to -

B21 0.23 - 0.32 m Dusky red (10R3/4-Moist); Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Weak consistence; Gradual change to -

B22 0.32 - 0.42 m Dusky red (10R3/4-Moist); Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Weak consistence; Abrupt change to -

B23 0.42 - 0.7 m Dark reddish brown (2.5YR3/4-Moist); Yellowish red (5YR5/6-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak consistence; , Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -

B3 0.7 - 0.9 m Red (2.5YR4/6-Moist); Dusky red (10R3/4-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Weak consistence; , Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -

C1 0.9 - 1.2 m Dark reddish brown (2.5YR3/4-Moist); Yellowish brown (10YR5/4-Moist); ; Light clay; Weak grade of structure, 50-100 mm, Angular blocky; Weak consistence; Gradual change to -

C2 1.2 - 1.47 m Dark reddish brown (2.5YR3/4-Moist); Yellowish brown (10YR5/4-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Gradual change to -

C3 1.47 - 1.73 m Dark reddish brown (2.5YR3/4-Moist); Yellowish brown (10YR5/4-Moist); ; Clay loam;

Massive grade of

structure; Weak consistence; Gradual change to -

C4 1.73 - 2 m ; Massive grade of structure; Weak consistence;

Morphological Notes

AP sl. Mica.Possible parna layer.
B11 Micaceous. Possible parna layer.
B12 Micaceous. Possible parna layer.

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B21 Micaceous. Possible parna layer.
B22 Micaceous. Possibl parna layer
B23 glossy ped faces in red; slight faunal fill 2-3 mm. Colour 70% 2.5YR34, 30% 5yr56. Mixed zone.

B3 glossy ped gaces on all colours. 60% 2.5YR46, 20% 10R34, 20% , 10YR54. Clearly weathered granite.
C1 Horizontally banded colours as in horizon 8 (auger effect?). Clearly weathered granite. Glossy on red peds; feltspar and granite fabric in 5/4. Sl. Mn stains.
C2 Vert. mottles as in horizon 8, 3 cm wide. Clear;y weathered granite. Glossy on red peds; feltspar and granite fabric in 5/4.
C3 Clearly weathered granite. Glossy on red peds; feltspar an granite fabric in 5/4.
C4 dom. Pink weathered feltspars. Weathered granite. Occassional vert. brown clayey band.

Observation Notes

Site Notes

Improved pasture grasses, complete ground cover. This hillcrest may be the summit of very old surface. On Lynwood road. At Lynwood the contact is Miss M.T.Brown.

Project Name: CAN
Project Code: CAN **Site ID:** CP238 **Observation** 1
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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	5.5A	0.09A	5.2G	0.62	1.3	0.01				
0.08 - 0.17	5.8A	0.07A	6.6G	0.82	1.3	0.01				
0.17 - 0.23	6A	0.08A	9.6G	1.5	2	0.02				
0.23 - 0.32	6.3A	0.07A	12.7G	2.3	2.3	0.05				
0.32 - 0.42	6.6A	0.06A	12.1G	2.9	2.1	0.05				
0.42 - 0.7	7.2A	0.07A	8.5G	4.1	1.6	0.06				
0.7 - 0.9	7.3A	0.07A	9G	7.4	1.1	0.1				
0.9 - 1.2	7.2A	0.1A	7.7G	8.7	0.66	0.11				
1.2 - 1.47	7A	0.07A	6.6G	8.3	0.29	0.17				
1.47 - 1.73	6.9A	0.11A	7G	8.7	0.19	0.28				
1.73 - 2	7A	0.09A	6.2G	7.6	0.11	0.31				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08		1.93A									
0.08 - 0.17		0.63A									
0.17 - 0.23		0.7A									
0.23 - 0.32		0.75A									
0.32 - 0.42		0.79A									
0.42 - 0.7		0.38A									
0.7 - 0.9		0.21A									
0.9 - 1.2		0.17A									
1.2 - 1.47		0.09A									
1.47 - 1.73		0.06A									
1.73 - 2		0.04A									

Laboratory Analyses Completed for this profile

13C1_AL Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15D2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor
15D2_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; mautomatic
15D2_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; mautomatic
15D2_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; mautomatic
15I4	CEC measurement - titration of ammonium and chloride ions
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
P10_S_0.20	0.20 micron (cumulative %) - Sedigraph
P10_S_1000	1000 micron (cumulative %) - Sedigraph
P10_S_125	125 micron (cumulative %) - Sedigraph
P10_S_15.6	15.6 micron (cumulative %) - Sedigraph
P10_S_2	2 micron (cumulative %) - Sedigraph
P10_S_2000	2000 micron (cumulative %) - Sedigraph

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P10_S_250	250 micron (cumlative %) - Sedigraph
P10_S_3.9	3.9 micron (cumulative %) - Sedigraph
P10_S_31.2	31.2 micron (cumulative %) - Sedigraph
P10_S_500	500 micron (cumulative %) - Sedigraph
P10_S_63	63 micron (cumulative %) - Sedigraph