Project Name: CAN
Project Code: CAN **Site ID:** CP233 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	**Locality:**	100M west of CP232:Sutton Granite Quarry
Date Desc.:	11/04/84	**Elevation:**	690 metres
Map Ref.:	Sheet No. : 8727 1:100000	**Rainfall:**	650
Northing/Long.:	149.288888888889	**Runoff:**	Moderately rapid
Easting/Lat.:	-35.1780555555556	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Non-porous, dense, Adamellite

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Moderately inclined
Slope:	6.5 %	**Aspect:**	200 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Bleached Eutrophic Red Kurosol

Mapping Unit: N/A
Principal Profile Form: Dr
Great Soil Group: Red podzolic soil

ASC Confidence:
No analytical data are available but confidence is fair.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded
Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.05 m	Brown (10YR5/3-Moist); Brown (10YR5/3-Dry); ; Loamy coarse sand; Massive grade of structure; Dry; Firm consistence; Field pH 6.1 (pH meter); AbundantGradual, Wavy change to -
A12	0.05 - 0.13 m	Light yellowish brown (10YR6/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Loamy coarse sand; Massive grade of structure; Dry; Firm consistence; Field pH 5.1 (pH meter); AbundantClear change to -
A21	0.13 - 0.2 m	Strong brown (7.5YR5/5-Moist); Pinkish grey (7.5YR7/2-Dry); ; Coarse sandy loam; Massive grade of structure; Dry; Firm consistence; Field pH 4.7 (pH meter); AbundantGradual change to -
	0.2 - 0.28 m	Strong brown (7.5YR5/5-Moist); Pinkish grey (7.5YR7/2-Dry); ; Coarse sandy loam; Massive grade of structure; Firm consistence; Field pH 5.2 (pH meter); AbundantClear change to -
A22	0.28 - 0.36 m	Strong brown (7.5YR5/5-Moist); Pinkish grey (7.5YR7/2-Dry); ; Coarse sandy loam; Massive grade of structure; Dry; Very firm consistence; Field pH 5.8 (pH meter); Abrupt, Wavy change to -
AB	0.36 - 0.4 m	Strong brown (7.5YR5/5-Moist); Pinkish grey (7.5YR7/2-Dry); , 2.5YR56, 10-20% ; , 5YR56, 10-20% ; Coarse sandy clay loam; Massive grade of structure; Dry; Very firm consistence; Field pH 5.6 (pH meter); Clear, Wavy change to -
B21	0.4 - 0.48 m	Reddish brown (2.5YR4/4-Moist); , 5YR54, 2-10% ; , 2-10% ; Medium clay; Weak grade of structure, Subangular blocky; Moist; Very firm consistence; Field pH 5.2 (pH meter); Gradual change to -
B22	0.48 - 0.55 m	Yellowish brown (10YR5/4-Moist); , 2.5YR46, 2-10% ; , 2-10% ; Medium clay; Weak grade of structure, Subangular blocky; Moist; Very firm consistence; Field pH 5.2 (pH meter); Gradual change to -
B3	0.55 - 0.7 m	Yellowish brown (10YR5/6-Moist); , 2.5YR44, 2-10% ; , 5YR44, 2-10% ; Sandy light clay; Massive grade of structure; Moist; Very firm consistence; Field pH 5.8 (pH meter);
B3C	0.7 - 0.84 m	Yellowish brown (10YR5/6-Moist); , 2.5YR44, 2-10% ; , 5YR44, 2-10% ; Sandy light clay; Massive grade of structure; Moist; Weak consistence; Field pH 5.9 (pH meter);

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C	0.84 - 1.02 m	Yellowish brown (10YR5/6-Moist); , 5YR54, 20-50% ; , 10YR43, 20-50% ; Sandy light clay; Massive grade of structure; Moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Argillaceous, , Veins; Field pH 6.8 (pH meter);
C	1.02 - 1.13 m	Yellowish brown (10YR5/6-Moist); , 5YR54; , 10YR43; Sandy light clay; Massive grade of structure; Moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Argillaceous, , Veins; Field pH 7 (pH meter);
C	1.13 - 1.3 m	Reddish brown (5YR5/4-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Argillaceous, , Veins; Field pH 7.3 (pH meter);
C	1.3 - 1.56 m	Olive grey (5Y5/2-Moist); , 10YR43, 2-10% ; , 2-10% ; Clay loam, coarse sandy; Massive grade of structure; Moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Argillaceous, , Veins; Field pH 7.6 (pH meter);
	1.69 - 1.79 m	; Clayey coarse sand; Massive grade of structure; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Argillaceous, , Veins; Field pH 8 (pH meter);
	2.04 - 2.14 m	; Clayey coarse sand; Massive grade of structure; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Argillaceous, , Veins; Field pH 7.6 (pH meter);

Morphological Notes

Observation Notes

169-214CM THIN REDDISH CLAY COATINGS OVER GRANITE GRAINS:

Site Notes

LAKE GEORGE

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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 - 0.05	6.1A	0.13A	3.6K	1	0.97	0	0.4B	6J		0.00
0.05 - 0.13	5.1A	0.11A	1.6K	0.27	0.89	0	2.2B	5J		0.00
0.13 - 0.2	4.7A	0.08A	0.74K	0.13	0.32	0	0.8B	2J		0.00
0.2 - 0.28	5.2A	0.07A	1.1K	0.19	0.17	0	0.5B	2J		0.00
0.28 - 0.36	5.8A	0.07A	1.1K	0.29	0.21	0	0B	1.5J		0.00
0.36 - 0.4	5.6A	0.1A	2.6K	1	0.52	0	0B	4J		0.00
0.4 - 0.48	5.2A	0.11A	5K	2.5	0.91	0.02	0.7B	9.1J		0.22
0.48 - 0.55	5.2A	0.11A	5.6K	4	0.97	0.07	1.2B	11.8J		0.59
0.55 - 0.7	5.8A	0.06A	6.2K	5.1	0.59	0.22	0.8B	12.9J		1.71
0.7 - 0.84	5.9A	0.06A	6.8K	6.3	0.35	0.36	0.2B	14J		2.57
0.84 - 1.02	6.8A	0.06A	6.1K	5.7	0.24	0.44	0B	11.8J		3.73
1.02 - 1.13	7A	0.05A	6.2K	6	0.18	0.62	0B	10.7J		5.79
1.13 - 1.3	7.3A	0.05A	8.5K	7.4	0.18	1	0B	11.7J		8.55
1.3 - 1.55	7.6A	0.07A	7.3K	6.7	0.13	1.1	0B	10.7J		10.28
1.69 - 1.79	8A	0.07A	9.1K	8.3	0.12	1.5	0B	11.2J		13.39
2.04 - 2.14	7.6A	0.14A	8.2K	8.6	0.11	1.5	0B	10.7J		14.02

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 - 0.05		1.79D										
0.05 - 0.13		1.48D										
0.13 - 0.2		0.46D										
0.2 - 0.28		0.21D										
0.28 - 0.36		0.15D										
0.36 - 0.4		0.23D										
0.4 - 0.48		0.29D										
0.48 - 0.55		0.26D										
0.55 - 0.7		0.44D										
0.7 - 0.84		0.27D										
0.84 - 1.02		0.22D										
1.02 - 1.13		0.12D										
1.13 - 1.3		0.04D										
1.3 - 1.55		0.04D										
1.69 - 1.79		0.03D										
2.04 - 2.14		0.03D										

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.05										
0.05 - 0.13										
0.13 - 0.2										
0.2 - 0.28										
0.28 - 0.36										
0.36 - 0.4										
0.4 - 0.48										
0.48 - 0.55										
0.55 - 0.7										

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0.7 - 0.84
0.84 - 1.02
1.02 - 1.13
1.13 - 1.3
1.3 - 1.55
1.69 - 1.79
2.04 - 2.14

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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
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
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
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