Project Name: CAN
Project Code: CAN **Site ID:** CP234 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	**Locality:**	Sutton Granite Quarry:97M west of CP233
Date Desc.:	12/04/84	**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:	Lower-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Moderately inclined
Slope:	9 %	**Aspect:**	160 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Chromosol
ASC Confidence:
No analytical data are available but confidence is fair.

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

Site Disturbance: Cultivation. Rainfed

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 - 0.02 m	Dark greyish brown (10YR4/2-Moist); Light brownish grey (10YR6/2-Dry); ; Sandy loam; Massive grade of structure; Dry; Firm consistence; Field pH 5.8 (pH meter); AbundantAbrupt, Wavy change to -
A12	0.02 - 0.12 m	Dark greyish brown (10YR4/2-Moist); Pale brown (10YR6/3-Dry); ; Sandy loam; Weak grade of structure; Dry; Very strong consistence; Field pH 5.2 (pH meter); AbundantGradual change to -
A2	0.12 - 0.28 m	Dark yellowish brown (10YR4/4-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Weak grade of structure, Subangular blocky; Dry; Very firm consistence; Field pH 5.4 (pH meter); AbundantClear change to -
A3	0.28 - 0.34 m	Yellowish brown (10YR5/4-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure, Subangular blocky; Dry; Very firm consistence; Field pH 6 (pH meter); Clear change to -
B2	0.34 - 0.46 m	Red (2.5YR4/8-Moist); , 10YR52, 0-2% ; , 0-2% ; Sandy medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Field pH 6.3 (pH meter); Clear change to -
B3	0.46 - 0.62 m	Yellowish brown (10YR5/5-Moist); , 5YR58, 10-20% ; , 10-20% ; Sandy light clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Field pH 6.6 (pH meter);
	0.62 - 0.7 m	Strong brown (7.5YR5/6-Moist); , 5Y33, 10-20% ; , 10YR42, 10-20% ; Medium clay; Massive grade of structure; Weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6.7 (pH meter);
	0.7 - 0.77 m	Strong brown (7.5YR5/6-Moist); , 5Y33, 10-20% ; , 10YR42, 10-20% ; Medium clay; Massive grade of structure; Weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6.7 (pH meter);
	0.91 - 0.98 m	Grey (5Y6/1-Moist); , 7.5YR56, 10-20% ; , 10-20% ; Sandy clay loam; Massive grade of structure; Weak consistence; Field pH 7.1 (pH meter);
	1.02 - 1.2 m	Grey (5Y6/1-Moist); , 7.5YR56, 10-20% ; , 10-20% ; Sandy clay loam; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter);

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1.2 - 1.36 m	Grey (5Y6/1-Moist); , 7.5YR56, 10-20% ; , 10-20% ; Sandy clay loam; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.4 (pH meter);
1.36 - 1.6 m	Grey (5Y6/1-Moist); , 7.5YR56, 10-20% ; , 10-20% ; Sandy clay loam; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter);
1.6 - 1.71 m	Grey (5Y6/1-Moist); , 7.5YR56, 10-20% ; , 10-20% ; Sandy clay loam; Massive grade of structure; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter);
1.82 - 1.92 m	; Massive grade of structure; Weak consistence; Field pH 7.6 (pH meter);
1.96 - 2.1 m	Yellowish brown (10YR5/4-Moist); , 5Y62, 20-50% ; , 20-50% ; Sandy loam; Massive grade of structure; Weak consistence; Field pH 7.9 (pH meter);
2.1 - 2.27 m	Yellowish brown (10YR5/4-Moist); , 5Y62, 20-50% ; , 20-50% ; Sandy loam; Massive grade of structure; Weak consistence; Field pH 7.6 (pH meter);
2.47 - 2.6 m	; Clayey sand; Massive grade of structure; Weak consistence; Field pH 8 (pH meter);

Morphological Notes

Observation Notes

COLLUVIUM OVER SUTTON GRANITE:247-260CM THIN COATINGS OF REDDISH CLAY ON 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 - 0.02	5.8A	0.1A	4.6K	1.2	0.69	0.01	1.6B	8.1J		0.12
0.02 - 0.12	5.2A	0.04A	2.3K	0.85	0.27	0.01	1.6B	5J		0.20
0.12 - 0.28	5.4A	0.03A	1.3K	0.45	0.11	0.01	1.6B	3.5J		0.29
0.28 - 0.34	6A	0.02A	1.5K	0.47	0.15	0	0.4B	2.5J		0.00
0.34 - 0.46	6.3A	0.02A	3.7K	1.9	0.25	0.07	0.7B	6.6J		1.06
0.46 - 0.62	6.6A	0.02A	3.9K	2.7	0.17	0.08	0.2B	7.1J		1.13
0.62 - 0.7	6.7A	0.02A	6.1K	4.7	0.22	0.15	0B	10.7J		1.40
0.7 - 0.77	6.7A	0.02A	6.1K	5.1	0.21	0.19	0B	11.2J		1.70
0.91 - 0.98	7.1A	0.02A	2.3K	2	0.12	0.12	0B	4J		3.00
1.02 - 1.2	7.3A	0.03A	3.6K	3.4	0.13	0.26	0B	7.1J		3.66
1.2 - 1.36	7.4A	0.03A	3.8K	3.7	0.14	0.31	0B	7.6J		4.08
1.36 - 1.6	7.3A	0.03A	3.7K	3.8	0.14	0.4	0B	7.6J		5.26
1.6 - 1.71	7.3A	0.06A	3.5K	3.6	0.14	0.46	0B	7.1J		6.48
1.82 - 1.92	7.6A	0.03A	3.9K	4.9	0.14	0.47	0B	8.1J		5.80
1.96 - 2.1	7.9A	0.03A	3.1K	3.6	0.12	0.45	0B	6.6J		6.82
2.1 - 2.27	7.6A	0.04A	2.7K	3.1	0.11	0.44	0B	5.5J		8.00
2.47 - 2.6	8A	0.02A	5.2K	5.2	0.1	0.88	0B	7.6J		11.58

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 - 0.02		2.58D										
0.02 - 0.12		1.24D										
0.12 - 0.28		0.38D										
0.28 - 0.34		0.18D										
0.34 - 0.46		0.15D										
0.46 - 0.62		0.18D										
0.62 - 0.7		0.18D										
0.7 - 0.77		0.15D										
0.91 - 0.98		0.09D										
1.02 - 1.2		0.09D										
1.2 - 1.36		0.05D										
1.36 - 1.6		0.07D										
1.6 - 1.71		0.05D										
1.82 - 1.92		0.02D										
1.96 - 2.1		0.08D										
2.1 - 2.27		0.04D										
2.47 - 2.6		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 - 0.02										
0.02 - 0.12										
0.12 - 0.28										
0.28 - 0.34										
0.34 - 0.46										
0.46 - 0.62										
0.62 - 0.7										

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0.7 - 0.77
0.91 - 0.98
1.02 - 1.2
1.2 - 1.36
1.36 - 1.6
1.6 - 1.71
1.82 - 1.92
1.96 - 2.1
2.1 - 2.27
2.47 - 2.6

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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