Project Name: **Regional**
Project Code: **REG** **Site ID:** **T220** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Locality: 2.3KM along power line track from national park road Alligator Creek 4.8KM from highway:
Date Desc.: 05/12/73
Elevation: 61 metres
Map Ref.: Sheet No. : 8259 1:100000
Rainfall: 1140
Northing/Long.: 146.9375
Runoff: Rapid
Easting/Lat.: -19.4083333333333
Drainage: Well drained

Geology

ExposureType: Undisturbed soil core
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: P-Cv
Substrate Material: Undisturbed soil core, 1.2 m deep,Andesite

Land Form

Rel/Slope Class: Rolling rises 9-30m 10-32%
Pattern Type: Rises
Morph. Type: No Data
Relief: 24 metres
Elem. Type: Hillslope
Slope Category: Moderately inclined
Slope: 15.8 %
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr2.2
Great Soil Group: N/A

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus alba

Surface Coarse Fragments: 20-50%, cobbly, 60-200mm, , Gravel

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loam (Heavy); Weak grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Gradual change to -
A2	0.1 - 0.2 m	Brown (7.5YR4/2-Moist); Brown (7.5YR5/4-Dry); ; Clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments;
A2	0.2 - 0.3 m	Brown (7.5YR4/2-Moist); Brown (7.5YR5/4-Dry); ; Clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Clear change to -
B2	0.3 - 0.45 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments;
B2	0.45 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments;
B	0.6 - 0.9 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence;
C	0.9 - 1.2 m	;

Morphological Notes

C Soft friable weathered brownish Y parent material:

Observation Notes

60-90CM INCREASING AMOUNTS OF SOFT BROWNISH YELLOW PARENT MATERIAL:

Site Notes

THE SISTERS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.8A	<0.05A	13.5B	5.3	1	0.13				
0.1 - 0.2	6.4A	<0.05A								
0.2 - 0.3	6.5A	<0.05A								
0.3 - 0.45	6.5A	<0.05A	9.5B	6.5	0.28	0.1				
0.45 - 0.6	6.5A	<0.05A	10.8B	6.1	0.04	0.22				
0.6 - 0.9	6.5A	<0.05A								
0.9 - 1.2	6.7A	<0.05A								

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 - 0.1		2.97D	245B		0.21A			12	17A	32	25	26
0.1 - 0.2								20	34A	26	20	20
0.2 - 0.3								26	33A	25	18	24
0.3 - 0.45			141B					16	6A	14	18	61
0.45 - 0.6								<2	3A	12	20	65
0.6 - 0.9												
0.9 - 1.2			553B									

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.45									
0.45 - 0.6									
0.6 - 0.9									
0.9 - 1.2									

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Laboratory Analyses Completed for this profile

12_HF_CU	Total element - Cu(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)