Project Name: RR
Project Code: RR **Site ID:** B300 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 25/10/56
Map Ref.: Sheet No. : 9248 1:100000
Northing/Long.: 151.6
Easting/Lat.: -24.6166666666667
Locality:
Elevation: 107 metres
Rainfall: 1015
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: PRgm
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.99 m deep,Porous, Granodiorite

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Low hills
Relief: 46 metres
Slope Category: No Data
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: Dr2.12
Great Soil Group: Non-calcic brown soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, angular,

Profile Morphology

A1	0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Loam; Massive grade of structure; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.1 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
B21	0.18 - 0.43 m	Red (2.5YR4/6-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, coarse fragments; Field pH 6.8 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B22	0.43 - 0.66 m	Red (2.5YR4/5-Moist); ; Heavy clay; 100-200 mm, Angular blocky; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Field pH 6.9 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B3	0.69 - 0.91 m	Strong brown (7.5YR5/8-Moist); , 2.5YR35; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Field pH 7.2 (pH meter); Diffuse change to -
C	0.99 - 1.14 m	Strong brown (7.5YR5/7-Moist); , 2.5YR45; Clay loam (Light); Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very weak consistence; 0-2%, cobbly, 60-200mm, Granodiorite, coarse fragments; Field pH 7.2 (pH meter);

Morphological Notes

Observation Notes

INTEGRADING TO NORTHERN RBE SUB-GROUP:

Site Notes

MIRIAM VALE

Project Name: RR
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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 - 0.15	6.1A	0.054A	11.4B	4.6	0.62	0.09	8.1D			
0.18 - 0.43	6.8A	0.027A								
0.43 - 0.66	6.9A	0.027A	11.5B	13.6	0.12	0.3	4.6D			
0.69 - 0.91	7.2A	0.054A								
0.99 - 1.14	7.2A	0.054A								

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 - 0.15		4.12A	39A	0.04F	0.24B			14	15C	35	18	27
0.18 - 0.43		0.93A			0.06B			6	1C	16	20	61
0.43 - 0.66		0.59A		0.02F				0	1C	22	25	52
0.69 - 0.91		0.31A			0.02B			0	1C	37	29	37
0.99 - 1.14				0.06F				0	2C	51	27	20

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 - 0.15										
0.18 - 0.43										
0.43 - 0.66										
0.69 - 0.91										
0.99 - 1.14										

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Laboratory Analyses Completed for this profile

15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
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	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded