

Project Name: RR
Project Code: RR **Site ID:** B283 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/56	Elevation:	122 metres
Map Ref.:	Sheet No. : 8064 1:100000	Rainfall:	1422
Northing/Long.:	145.85	Runoff:	Moderately rapid
Easting/Lat.:	-16.9736111111111	Drainage:	Well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pgm	Substrate Material:	Auger boring, 3 m deep, Granodiorite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Mountains
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Humose Dystrophic Red Kandosol		Principal Profile Form:	Gn2.14
ASC Confidence:		Great Soil Group:	Red earth

All necessary analytical data are available.

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

Vegetation: Low Strata - Shrub, , . *Species includes - None recorded
Mid Strata - Tree, , . *Species includes - Acacia species
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus species, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.25 m	Very dark brown (10YR2/2-Moist); ; Clay loam (Fibric); Strong grade of structure, 2-5 mm, Granular; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.4 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -
A2	0.25 - 0.41 m	Dark brown (7.5YR3/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.3 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -
B1	0.43 - 0.61 m	Reddish brown (5YR4/3-Moist); ; Light clay; Massive grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.2 (pH meter); Diffuse change to -
B21	0.66 - 0.91 m	Red (2.5YR4/7-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.2 (pH meter); Diffuse change to -
B22	0.91 - 1.52 m	Red (10R4/8-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.4 (pH meter); Diffuse change to -
B23	1.83 - 2.44 m	Red (10R4/8-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.3 (pH meter); Diffuse change to -
B3	2.44 - 3.05 m	Red (2.5YR4/8-Moist); ; Clay loam (Heavy); Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.4 (pH meter);

Morphological Notes

Observation Notes

0-25CM POROUS GRANULAR STRUCTURE

Site Notes

CAIRNS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
							(+)/kg		
0 - 0.25	5.4H	0.01B	0.56K	0.51	0.16	0.07	29.1D		
0.25 - 0.41	5.3H	0.01B							
0.43 - 0.61	5.2H	0.01B							
0.66 - 0.91	5.2H	0.01B	0.05K	0.11	0.08	0.04	3.7D		
0.91 - 1.52	5.4H	0.01B							
1.83 - 2.44	5.3H	0.01B	0.05K	0.22	0.03	0.07	1.8D		
2.44 - 3.05	5.4H	0.01B							

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - 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
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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