Project Name: RR

Project Code: RR Site ID: B285 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

 Date Desc.:
 05/10/56
 Elevation:
 122 metres

 Map Ref.:
 Sheet No.: 8062
 1:100000
 Rainfall:
 4826

Northing/Long.: 145.791666666667 Runoff: Moderately rapid Easting/Lat.: -17.852777777778 Drainage: Well drained

<u>Geology</u>

ExposureType: Existing vertical exposure Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Pgb Substrate Material: Existing vertical exposure, 1.3 m

deep, Granodiorite

Land Form

Rel/Slope Class: Steep mountains >300m 32- Pattern Type: Mountains

56%

Morph. Type:CrestRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:35 %Aspect:No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHaplic Mesotrophic Red KandosolPrincipal Profile Form:Gn2.14ASC Confidence:Great Soil Group:Red earth

Analytical data are incomplete but reasonable confidence. Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Agathis robusta, Eucalyptus delegatensis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.05 m Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments;

Field pH 6.1 (pH meter); Many, very fine (0-1mm) roots; Clear change to -

A2 0.06 - 0.25 m Reddish brown (5YR4/3-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Polyhedral;

Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH

5.8 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -

B2 0.27 - 0.48 m Red (2.5YR4/8-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; 2-10%, fine gravelly, 2-

per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.7 (pH meter); Common, very fine (0-1mm) roots;

Diffuse change to -

B3 0.48 - 0.84 m Red (2.5YR4/8-Moist); ; Clay loam; Massive grade of structure; Many (>5 per 0.01m2) Medium (2-

5mm) macropores, Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.4 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -

B3 0.84 - 1.17 m Red (2.5YR4/8-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 10-

20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Few, very fine (0-

1mm) roots; Diffuse change to -

BC 1.17 - 1.27 m Yellowish red (5YR5/6-Moist); ; Loam; Massive grade of structure; Moist; Very weak

consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.3 (pH meter);

Diffuse change to -

C 1.27 - 1.5 m ; Field pH 5.5 (pH meter);

C 1.68 - 2.18 m ;

Morphological Notes

Speckled LYR and W decomposed rock

Observation Notes

0-5CM POROUS GRANULAR

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TULLY

Project Name: RR
Project Code: RR Site ID: B26
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Laboratory Test Results:

	Depth	рН	1:5 EC Ca	Exchangeable Cati Mg K	ions Na	Exchangeable Acidity	CEC	ECEC	ESP
	m		dS/m	g	Cmol (•			%
	0 - 0.05	6.1H	0.03B						
	0.06 - 0.25	5.8H	0.01B						
	0.27 - 0.48	5.7H	0.01B						
	0.48 - 0.84	5.4H	0.01B						
	0.84 - 1.17	5.2H	0.01B						
	1.17 - 1.27	5.3H	0.01B						
	1.27 - 1.5	5.5H	0.01B						
	1.68 - 2.18								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
-		C	Р	Р	N	K	Density	G۷	cs	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05			3C					5				
0.06 - 0.25				0.073F				7				
0.27 - 0.48								5				
0.48 - 0.84								10				
0.84 - 1.17								11				
1.17 - 1.27								12				
1.27 - 1.5								17				
1.68 - 2.18												

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 - 0.05 0.06 - 0.25 0.27 - 0.48 0.48 - 0.84 0.84 - 1.17 1.17 - 1.27 1.27 - 1.5 1.68 - 2.18

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Laboratory Analyses Completed for this profile

2A1

3_NR

Air-dry moisture content
Electrical conductivity or soluble salts - Not recorded
pH of soil - Not recorded
Water soluble Chloride - Cl(%) - Not recorded
Available P (mg/kg) - Not recorded
Total element - P(%) - Not recorded
Gravel (%) 5_NR 4_NR 5_NR 9_NR 9A_NR P10_GRAV

Gravel (%)