

Project Name: Regional
Project Code: REG **Site ID:** T385 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.D. Laffan	Locality:	
Date Desc.:	23/02/84	Elevation:	960 metres
Map Ref.:	Sheet No. : 7963 1:100000	Rainfall:	1400
Northing/Long.:	145.43	Runoff:	No Data
Easting/Lat.:	-17.2675	Drainage:	Well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	PH	Substrate Material:	Rhyolite

Land Form

Rel/Slope Class:	Very steep hills 90-300m 56-100%	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	56 %	Aspect:	45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Brown Dermosol		Principal Profile Form:	Gn3.74
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

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

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Mottles; Mottles; Clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, angular, reoriented, Sand, coarse fragments; Field pH 6.5 (pH meter); Common, medium (2-5mm) roots; Gradual change to -
AB	0.1 - 0.2 m	Brown (10YR4/3-Moist); Mottles; Mottles; Clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; 10-20%, cobbly, 60-200mm, angular, reoriented, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6.5 (pH meter); Common, medium (2-5mm) roots; Gradual change to -
B2	0.2 - 0.3 m	Brown (7.5YR4/4-Moist); Mottles; Mottles; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very weak consistence; 10-20%, cobbly, 60-200mm, angular, reoriented, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (pH meter); Common, medium (2-5mm) roots;
B2	0.3 - 0.5 m	Brown (7.5YR4/4-Moist); Mottles; Mottles; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very weak consistence; 10-20%, cobbly, 60-200mm, angular, reoriented, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (pH meter); Common, medium (2-5mm) roots; Diffuse change to -
B3	0.5 - 0.6 m	Yellowish brown (10YR5/6-Moist); Mottles; Mottles; Sandy medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very weak consistence; 20-50%, cobbly, 60-200mm, angular, undisturbed, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots;
B3	0.6 - 0.9 m	Yellowish brown (10YR5/6-Moist); Mottles; Mottles; Sandy medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very weak consistence; 20-50%, cobbly, 60-200mm, angular, undisturbed, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots; Abrupt change to -
C	0.9 - 1 m	;

Morphological Notes

C Moderate-weakly w'd rhyolite bedrock+derived slope deposits

Observation Notes

RAINFOREST 16C SCLEROPHYLL:

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol	(+)/kg			%
0 - 0.1	4.1D 5.6A	0.034A	1.85H	1.34	0.33	0.15	1.33F	4.5A 14C	5F	3.33 1.07
0.1 - 0.2	5.6A	0.025A								
0.2 - 0.3	5.9A	0.021A								
0.3 - 0.5	4.2D 6A	0.019A	0.22H	1.48	0.32	0.15	1.03F	3A 6C	3.2F	5.00 2.50
0.5 - 0.6	6.1A	0.018A								
0.6 - 0.9	4.2D 6.1A	0.015A	0.07H	2.43	0.29	0.12	0.07F	3.2A 5C	3F	3.75 2.40

Depth m	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density Mg/m3	Particle		Size FS %	Analysis			
	%	%	mg/kg	%	%	%		GV	CS		Silt	Clay		
0 - 0.1		3.69C	5B	0.008A	0.13A	1.5A		9	23A	19	37	21		
0.1 - 0.2		1.77C												
0.2 - 0.3		1.08C	3B	0.006A		1.64A		3	19A	19	38	25		
0.3 - 0.5		0.59C								0	22A	19	38	22
0.5 - 0.6														
0.6 - 0.9		0.29C		0.005A		3.01A	8	32A	14	37	17			

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6B3	Total organic carbon - high frequency induction furnace, infrared
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
9H1	Phosphate retention
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 (%)