

Project Name: Regional
Project Code: REG **Site ID:** T384 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.D. Laffan	Locality:	
Date Desc.:	23/02/84	Elevation:	990 metres
Map Ref.:	Sheet No. : 7963 1:100000	Rainfall:	1400
Northing/Long.:	145.428611111111	Runoff:	No Data
Easting/Lat.:	-17.266666666667	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:	Steep hills 90-300m 32-56%	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	50 %	Aspect:	23 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Dystrophic Brown Dermosol		Principal Profile Form:	Um6.12
ASC Confidence:		Great Soil Group:	Lithosol
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; Silty clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; 10-20%, cobbly, 60-200mm, angular, reoriented, Sand, coarse fragments; Field pH 6.5 (pH meter); Many, medium (2-5mm) roots;
A1	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); Mottles; Mottles; Silty clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; 10-20%, cobbly, 60-200mm, angular, reoriented, Sand, coarse fragments; Field pH 6.5 (pH meter); Many, medium (2-5mm) roots; Gradual change to -
B2	0.2 - 0.3 m	Dark yellowish brown (10YR4/4-Moist); Mottles; Mottles; Silty clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Very weak consistence; 10-20%, stony, 200-600mm, angular, reoriented, Sand, coarse fragments; Field pH 6 (pH meter); Common, medium (2-5mm) roots; Sharp change to -
B2	0.3 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); Mottles; Mottles; Silty clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Very weak consistence; 10-20%, stony, 200-600mm, angular, reoriented, Sand, coarse fragments; Field pH 6 (pH meter); Common, medium (2-5mm) roots; Sharp change to -
B2	0.4 - 0.55 m	Dark yellowish brown (10YR4/4-Moist); Mottles; Mottles; Silty clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Very weak consistence; 10-20%, stony, 200-600mm, angular, reoriented, Sand, coarse fragments; Field pH 6 (pH meter); Common, medium (2-5mm) roots; Sharp change to -
R	0.55 - 0.65 m	Rock

Morphological Notes

R Weakly w'd weak fractured rhyolite bedrock:cracks>10CM:

Observation Notes

RAINFOREST 16C:SHALLOW VARIANT:

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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 (%)