Project Name: Regional

Project Code: REG Site ID: T386 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

**Site Information** 

Desc. By: M.D. Laffan Locality: Date Desc.: 28/08/84 Elevation:

 Map Ref.:
 Sheet No.: 7963
 1:100000
 Rainfall:
 1400

 Northing/Long.:
 145.465277777778
 Runoff:
 No Data

 Easting/Lat.:
 -17.27166666666667
 Drainage:
 Poorly drained

**Geology** 

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

Geol. Ref.: PH Substrate Material: Unconsolidated material (unidentified)

Land Form

 Rel/Slope Class:
 Level plain <9m <1%</th>
 Pattern Type:
 No Data

 Morph. Type:
 Flat
 Relief:
 No Data

 Elem. Type:
 Valley flat
 Slope Category:
 No Data

 Slope:
 0 %
 Aspect:
 No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ABleached-Ferric Dermosolic Redoxic HydrosolPrincipal Profile Form:Gn3.04ASC Confidence:Great Soil Group:Soloth

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

**Vegetation:** 

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus species, Melaleuca species

760 metres

## **Surface Coarse Fragments:**

Profile Morphology								
A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0%; , 0-0%; Silty loam; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Dry; Very weak consistence; Many, fine (1-2mm) roots; Clear, Wavy change to -						
A2	0.1 - 0.2 m	Light brownish grey (10YR6/2-Moist); White (10YR8/1-Dry); , 0-0%; , 0-0%; Silty clay loam; Massive grade of structure; Rough-ped fabric; Dry; Very weak consistence; Field pH 5.8 (pH meter); Many, fine (1-2mm) roots; Clear, Wavy change to -						
A2g	0.2 - 0.3 m	Brown (10YR5/3-Moist); , 0-0%; , 0-0%; Silty medium clay; Weak grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Dry; Weak consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Concretions; Many, fine (1-2mm) roots; Clear, Wavy change to -						
B21	0.3 - 0.45 m	Light yellowish brown (10YR6/4-Moist); , 10YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 5.5 (pH meter); Many, fine (1-2mm) roots; Diffuse change to -						
B22	0.45 - 0.6 m	Light yellowish brown (10YR6/4-Moist); , 2.5YR48, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Gradual change to -						
B1g	0.6 - 0.8 m	Light brownish grey (10YR6/2-Moist); , 2.5YR48, 10-20% , 5-15mm, Prominent; , 10-20% , 5-15mm, Prominent; Medium clay; Strong grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Clear, Wavy change to -						
B2g	0.8 - 0.9 m	Greyish brown (10YR5/2-Moist); , 10YR62, 10-20% , 5-15mm, Prominent; , 10YR58, 10-20% , 5-15mm, Prominent; Sandy medium clay; Moderate grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few, fine (1-2mm) roots;						

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0.9 - 1.2 m B2g

Greyish brown (10YR5/2-Moist); , 10YR62, 10-20% , 5-15mm, Prominent; , 10YR58, 10-20% , 5-15mm, Prominent; Sandy medium clay; Moderate grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped

faces or walls coated, prominent; Few, fine (1-2mm) roots;

B2g 1.2 - 1.5 m Greyish brown (10YR5/2-Moist); , 10YR62, 10-20% , 5-15mm, Prominent; , 10YR58, 10-20% , 5-

15mm, Prominent; Sandy medium clay; Moderate grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped

faces or walls coated, prominent; Few, fine (1-2mm) roots;

## **Morphological Notes**

## **Observation Notes**

RAINFOREST 16C:PARENT MATERIAL OLDER ALLUVIUM FROM RHYOLITE:

**Site Notes** 

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Laboratory Test Results.												
Depth	рН		Exc Ca	changeable ( Mg	Cations K	Ex Na	changeable Acidity	CEC	ECEC	) E	SP	
m		dS/m				Cmol (+)/k	g			9	%	
0 - 0.1	3.9D 5A		0.09H	0.42	0.29	0.07	1.35F	2.2A 5C	2.2	_	.18 .40	
0.1 - 0.2 0.2 - 0.3	5.1A 4D 5.2A	0.022A 0.018A	0.03H	0.6	0.18	0.06	1.44F	2.5A	2.3	- 2	.40	
0.3 - 0.45	4D 5.4A	0.011A	0.03H	0.71	0.2	0.06	2.16F	3.2A	3.2	2F 1.88		
0.45 - 0.6	3.9D 5.7A		<0.02H		0.26	0.08	2.56F	4.6A			.74	
0.6 - 0.8	3.9D 5.8A		0.03H	2.42	0.38	0.15	2.88F	5.9A 8C	5.9		.54 .88	
0.8 - 0.9 0.9 - 1.2	6A 4D 6.2A	0.013A 0.012A	0.03H	4.68	0.43	0.22	1.75F	7.2A 9C	7.16	_	.06 .44	
1.2 - 1.5	6.1A	0.015A						30		_		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk		ticle Size	•		
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS FS	Silt (	Clay	
0 - 0.1		1.46C	7B	0.009A	0.0	8A 1.56A	Λ.	0		38 46	9	
0.1 - 0.2 0.2 - 0.3 0.3 - 0.45		0.69C 0.57C	3B					0 9 1	11A 3	36 44 33 41 33 39	11 14 20	
0.45 - 0.45 0.45 - 0.6 0.6 - 0.8				0.007A		1.92A		0	5A 3	36 36 30 34	25 32	
0.8 - 0.9 0.9 - 1.2				0.004A		1.98A		6 5	7A 3	32 32 37 24	29 29	
1.2 - 1.5								3		32 27	24	
Depth	COLE					later Contents		_	K sat	K unsat		
m		Sat.	0.05 Bar		0.5 Bar  - m3/m3	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h		
0 - 0.1												

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.8 0.8 - 0.9 0.9 - 1.2 1.2 - 1.5

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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/HClO4 Digest

12\_HF\_FE Total element - Fe(%) - HF/HCIO4 Digest
12\_HF\_MN Total element - Mn(mg/kg) - HF/HCIO4 Digest
12\_HF\_ZN Total element - Zn(mg/kg) - HF/HCIO4 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 Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment

15E1\_CA

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 5E1\_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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 H2SO4 (BSES)

9H1 Phosphate retention

P10\_CF\_C
P10\_CF\_CS
Coarse sand (%) - Coventry and Fett pipette method
P10\_CF\_FS
P10\_CF\_Z
Clay (%) - Coventry and Fett pipette method
Fine sand (%) - Coventry and Fett pipette method
Silt (%) - Coventry and Fett pipette method

P10\_GRAV Gravel (%)