

Project Name: Regional
Project Code: REG **Site ID:** T402 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.D. Laffan	Locality:	
Date Desc.:	15/10/84	Elevation:	No Data
Map Ref.:	Sheet No. : 7963 1:100000	Rainfall:	1400
Northing/Long.:	145.460555555556	Runoff:	No Data
Easting/Lat.:	-17.3161111111111	Drainage:	Poorly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Auger boring, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Dystrophic Dermosolic Redoxic Hydrosol		Principal Profile Form:	Gn4.54
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Silty clay loam (Light); Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots;
A2	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Clay loam, sandy (Heavy); Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots;
AB	0.2 - 0.3 m	Grey (10YR5/1-Moist); , 10YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots;
B1g	0.3 - 0.6 m	Light brownish grey (10YR6/2-Moist); , 7.5YR58, 20-50% , 30-mm, Prominent; , 20-50% , 30-mm, Prominent; Sandy light clay (Heavy); Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots;
B1g	0.6 - 0.76 m	Light brownish grey (10YR6/2-Moist); , 7.5YR58, 20-50% , 30-mm, Prominent; , 20-50% , 30-mm, Prominent; Sandy light clay (Heavy); Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots;
B2g	0.76 - 0.9 m	Light brownish grey (10YR6/2-Moist); , 7.5YR58, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;

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B3g	0.9 - 1.2 m	Grey (10YR6/1-Moist); , 7.5YR58, 10-20% , 30-mm, Prominent; , 10-20% , 30-mm, Prominent; Sandy light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots;
B3g	1.2 - 1.5 m	Grey (10YR6/1-Moist); , 7.5YR58, 10-20% , 30-mm, Prominent; , 10-20% , 30-mm, Prominent; Sandy light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots;
2A1b	1.5 - 1.8 m	Black (10YR2/1-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Massive grade of structure; Smooth-ped fabric; Moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, prominent; Field pH 5.8 (pH meter);
2ABb	1.8 - 1.96 m	Very dark grey (10YR3/1-Moist); , 5YR46, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Sandy light clay; Massive grade of structure; Smooth-ped fabric; Moist; Very firm consistence; Field pH 5.8 (pH meter);

Morphological Notes

Observation Notes

VEGETATION SCLEROPHYLL WOODLAND:PARENT MATERIAL IS ALLUVIUM FROM GRANITE AND RHYOLITE:

Site Notes

CARRINGTON

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	cmol (+)/kg	Acidity			%
0 - 0.1	4D 5.1A	0.04A	0.64H	0.47	0.25	0.09	1.63F	2.2A 5C	3.1F	4.09 1.80
0.1 - 0.2	5.3A	0.02A								
0.2 - 0.3	5.5A	0.016A								
0.3 - 0.6	4.1D 5.4A	0.013A	0.2H	0.38	0.26	0.05	1.91F	1.8A 3C	2.8F	2.78 1.67
0.6 - 0.76	5.6A	0.011A								
0.76 - 0.9	4D 5.7A	0.01A	0.09H	0.6	0.2	0.07	1.72F	2.2A 3C	2.7F	3.18 2.33
0.9 - 1.2	5.8A	0.01A								
1.2 - 1.5	5.9A	0.008A								
1.5 - 1.8	5.7A	0.014A								
1.8 - 1.96	5.9A	0.011A								

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
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
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 (%)