

Project Name: Regional
Project Code: REG **Site ID:** T335 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.J. Coventry	Locality:	
Date Desc.:	20/08/74	Elevation:	No Data
Map Ref.:	Sheet No. : 7956 1:100000	Rainfall:	600
Northing/Long.:	145.205555555556	Runoff:	No Data
Easting/Lat.:	-20.722222222222	Drainage:	No Data

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Magnesic Red Kandosol		Principal Profile Form:	Gn2.11
ASC Confidence:		Great Soil Group:	Red earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Very sparse. *Species includes - Triodia pungens, Aristida leptopoda
 Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Grevillea glauca, Grevillea pteridifolia
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus setosa, Eucalyptus similis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); Brown (7.5YR5/4-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; Gradual change to -
A3	0.1 - 0.2 m	Red (2.5YR4/8-Moist); Yellowish red (5YR5/8-Dry); ; Sandy loam (Light); Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;
A3	0.2 - 0.25 m	Red (2.5YR4/8-Moist); Yellowish red (5YR5/8-Dry); ; Sandy loam (Light); Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
B1	0.25 - 0.2 m	Red (2.5YR4/8-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence;
B1	0.3 - 0.6 m	Red (2.5YR4/8-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence;
B1	0.6 - 0.7 m	Red (10R4/8-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; Gradual change to -
B2	0.7 - 0.9 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B2	0.9 - 1.2 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B2	1.2 - 1.5 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.5 - 1.8 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.8 - 2.1 m	Red (10R4/8-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -

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C	2.1 - 2.4 m	Red (10R4/8-Moist); , 7.5YR56, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very strong consistence; 10-20%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
C	2.4 - 2.7 m	Red (10R4/8-Moist); , 7.5YR56, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very strong consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
C	2.7 - 3 m	Red (10R4/8-Moist); , 7.5YR56, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very strong consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP	
m		dS/m	Ca	Mg	K	Na	Acidity		%	
						Cmol	(+)/kg			
0 - 0.1	6A	0.026A	0.76H	0.79	0.09	0.02	0.17F	1.87A	1.8F	1.07
0.1 - 0.2	5.5A	0.018A								
0.2 - 0.25	5.2A	0.021A								
0.25 - 0.3	5A	0.021A								
0.3 - 0.6	5.3A	0.028A								
0.6 - 0.7	5.5A	0.042A								
0.7 - 0.9	5.5A	0.022A	<0.02H	1.4	0.05	0.03	0.21F	1.9A	1.7F	1.58
0.9 - 1.2	5.4A	0.024A								
1.2 - 1.5	5.4A	0.036A	<0.02H	1.4	0.05	0.03	0.17F	1.73A	1.7F	1.73
1.5 - 1.8	5.5A	0.022A								
1.8 - 2.1	5.6A	0.02A	<0.02H	1.68	0.04	0.03	0.28F	1.6A	2.1F	1.88
2.1 - 2.4	5.7A									
2.4 - 2.7	5.6A	0.026A								
2.7 - 3	5.7A	0.023A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.53D		0.007A	0.03A	0.06A		3	41A	40	5	14
0.1 - 0.2		0.36D			0.018A			2	39A	46	4	11
0.2 - 0.25								2	36A	47	5	12
0.25 - 0.3		0.29D			0.019A			2	37A	45	4	14
0.3 - 0.6								3	40A	38	4	19
0.6 - 0.7								3	38A	37	4	21
0.7 - 0.9				0.005A		0.05A		4	34A	38	4	24
0.9 - 1.2								7	32A	39	4	24
1.2 - 1.5								10	34A	38	5	23
1.5 - 1.8								12	35A	36	5	24
1.8 - 2.1				0.003A		0.05A		11	37A	33	5	24
2.1 - 2.4								21	38A	32	6	25
2.4 - 2.7								12	37A	32	7	25
2.7 - 3								14	37A	31	6	27

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
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
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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
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 (%)