

Project Name: Regional
Project Code: REG **Site ID:** T255 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.J. Coventry	Locality:	54M east of Redlands plots:
Date Desc.:	31/08/77	Elevation:	No Data
Map Ref.:	Sheet No. : 8057 1:100000	Rainfall:	620
Northing/Long.:	145.883333333333	Runoff:	No Data
Easting/Lat.:	-20.225	Drainage:	No Data

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tf	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Brown Chromosol	Principal Profile Form:	Gn2.21
ASC Confidence:	Great Soil Group:	Yellow earth

All necessary analytical data are available.

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

Vegetation:

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus melanophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); Brown (10YR5/3-Dry); ; Sandy loam; Weak grade of structure, 2-5 mm, Platy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
A12	0.05 - 0.1 m	Dark yellowish brown (10YR4/6-Moist); Yellowish brown (10YR5/6-Dry); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
A3	0.1 - 0.2 m	Strong brown (7.5YR5/6-Moist); Brownish yellow (10YR6/6-Dry); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
B1	0.2 - 0.3 m	Strong brown (7.5YR5/7-Moist); Brownish yellow (10YR6/6-Dry); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few, fine (1-2mm) roots; Gradual change to -
B21	0.3 - 0.4 m	Yellowish brown (10YR5/8-Moist); Brownish yellow (10YR6/6-Dry); ; Sandy medium clay (Light); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few, fine (1-2mm) roots; Gradual change to -
B22	0.4 - 0.56 m	Strong brown (7.5YR5/8-Moist); Yellowish brown (10YR5/8-Dry); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Clear change to -
B3	0.56 - 0.69 m	Yellowish brown (10YR5/8-Moist); Brownish yellow (10YR6/8-Dry); ; Light medium clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Clear change to -
BC	0.69 - 0.9 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence;
C2	0.9 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 5YR46, 20-50% , 5-15mm, Prominent; , 5Y71, 20-50% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence;

Morphological Notes

Observation Notes

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Site Notes

REDLANDS

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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 - 0.05	6.3A	<0.05A	1.6B	0.78	0.11		0.16F		
0.05 - 0.1	6.1A	<0.05A	0.96B	0.38	0.08	0.07	0.24F	1.7F	
0.2 - 0.3	5.5A	<0.05A	0.64B	0.5	0.06	0.04	0.42F	1.7F	
0.4 - 0.56	5.4A	<0.05A	0.48B	1.25	0.06	0.04	0.73F	2.6F	
0.9 - 1.2	5.9A	<0.05A	0.16B	1.8	0.02	0.1	0.42F	2.5F	

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 - 0.05		0.47D	3B		0.029A			1	44A	39	7	9
0.05 - 0.1		0.25D	3B		0.029A			3	44A	39	6	12
0.2 - 0.3		0.16D	4B		0.02A			2	44A	33	5	18
0.4 - 0.56		0.14D						5	35A	25	4	36
0.9 - 1.2		0.07D						54	32A	20	8	41

[illegible]

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Laboratory Analyses Completed for this profile

12_HF_CU	Total element - Cu(mg/kg) - 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_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, 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
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
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
9H1	Phosphate retention
MIN_EC	Exchange Capacity - Mineralogy
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 (%)
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_K2O	K ₂ O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction