

Project Name: Regional
Project Code: REG **Site ID:** T136 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	3.5KM east of north line crossing road at homestead site:.2KM east of bend in road:
Date Desc.:	17/07/70	Elevation:	No Data
Map Ref.:	Sheet No. : 7474 1:100000	Rainfall:	1680
Northing/Long.:	142.6	Runoff:	Rapid
Easting/Lat.:	-11.7333333333333	Drainage:	Well drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Jkb	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Rolling rises 9-30m 10-32%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	24 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	180 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Dystrophic Red Kandosol		Principal Profile Form:	Gn2.44
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 - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - None recorded
Mid Strata - Sedge, 1.01-3m, Very sparse. *Species includes - Xanthorrhoea johnsonii
Tall Strata - Heath shrub, 1.01-3m, Mid-dense. *Species includes - Grevillea glauca

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/4-Moist); Brown (7.5YR5/4-Dry); ; Loamy sand; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Few, fine (1-2mm) roots; Gradual change to -
A2	0.1 - 0.2 m	Yellowish red (5YR4/8-Moist); Yellowish red (5YR4/8-Dry); ; Loamy sand; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Gradual change to -
B1	0.2 - 0.3 m	Red (2.5YR4/8-Moist); Red (2.5YR5/8-Dry); , 10YR68, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Gradual change to -
B1	0.3 - 0.4 m	Red (2.5YR4/8-Moist); Red (2.5YR5/8-Dry); , 10YR68, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Gradual change to -
B1	0.4 - 0.5 m	Red (2.5YR4/8-Moist); , 10YR68, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Gradual change to -
B1	0.5 - 0.6 m	Red (2.5YR4/8-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy loam; Massive grade of structure; Moderately moist; Very weak consistence; Gradual change to -
B1	0.6 - 0.75 m	Red (2.5YR4/8-Moist); , 10YR68, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy loam; Massive grade of structure; Moderately moist; Very weak consistence; Gradual change to -
B1	0.75 - 0.9 m	Red (10R4/8-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy loam (Heavy); Massive grade of structure; Moderately moist; Weak consistence; Gradual change to -
B21	0.9 - 1.2 m	Red (10R4/8-Moist); , 10YR68, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Moderately moist; Weak consistence; Gradual change to -

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B21	1.2 - 1.35 m	Red (10R4/8-Moist); , 10YR68, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; Gradual change to -
B22	1.35 - 1.5 m	Red (10R4/8-Moist); , 10YR68, 10-20% , 15-30mm, Distinct; , 2.5YR68, 10-20% , 15-30mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Weak consistence; Gradual change to -
B22	1.5 - 1.8 m	Red (10R4/8-Moist); , 2.5YR68, 10-20% , 15-30mm, Distinct; , 10YR68, 10-20% , 15-30mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Weak consistence; Gradual change to -
B22	1.8 - 2.1 m	Red (10R4/8-Moist); , 2.5YR68, 2-10% , 15-30mm, Distinct; , 10YR68, 2-10% , 15-30mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Very firm consistence; Gradual change to -
	2.1 - 2.4 m	Red (10R4/8-Moist); , 10YR68, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Weak consistence; Few (2 - 10 %), Argillaceous, , Nodules; Gradual change to -
	2.4 - 2.7 m	Red (10R4/8-Moist); , 10YR68, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Light clay; Massive grade of structure; Weak consistence; Common (10 - 20 %), Argillaceous, , Nodules; Gradual change to -
	2.7 - 3 m	Red (10R4/8-Moist); , 10YR68, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Light clay; Massive grade of structure; Very weak consistence; Few (2 - 10 %), Argillaceous, , Nodules; Gradual change to -
	3 - 3.3 m	Red (10R4/8-Moist); , 10YR68, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Light clay; Massive grade of structure; Very weak consistence; Gradual change to -
	3.3 - 3.6 m	Red (10R4/8-Moist); , 10YR68, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Light medium clay; Massive grade of structure; Very weak consistence; Gradual change to -
	3.6 - 3.9 m	Red (10R4/8-Moist); , 10YR68, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Light medium clay; Massive grade of structure; Very weak consistence; Gradual change to -
	3.9 - 4.2 m	Dark red (10R3/8-Moist); , 10YR68, 0-2% , 15-30mm, Distinct; , 0-2% , 15-30mm, Distinct; Sandy medium clay; Massive grade of structure; Very weak consistence; Gradual change to -

Morphological Notes

Observation Notes

50-135CM ELONGATE MOTTLING HORIZONTALLY:

Site Notes

HEATHLANDS

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Laboratory Test Results:

[illegible][illegible][illegible]

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0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.75
0.75 - 0.9
0.9 - 1.2
1.2 - 1.35
1.35 - 1.5
1.5 - 1.8
1.8 - 2.1
2.1 - 2.4
2.4 - 2.7
2.7 - 3
3 - 3.3
3.3 - 3.6
3.6 - 3.9
3.9 - 4.2

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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/HClO4 Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
MIN_EC	Exchange Capacity - Minerology
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_Gt	Goethite - 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