

Project Name: Regional
Project Code: REG **Site ID:** T176 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G. Smith	Locality:	25.9KM north of Laura Post Office on Kennedy Highway:
Date Desc.:	03/11/70	Elevation:	No Data
Map Ref.:	Sheet No. : 7767 1:100000	Rainfall:	940
Northing/Long.:	144.233333333333	Runoff:	Very slow
Easting/Lat.:	-15.4638888888889	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Simple-slope	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Regolithic Orthic Tenosol		Principal Profile Form:	Gn2.64
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:

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus species, Eucalyptus polycarpa, Grevillea

species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Grey (10YR5/1-Dry); ; Sand (Heavy); Massive grade of structure; Dry; Strong consistence; Clear change to -
A21	0.05 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Greyish brown (10YR5/2-Dry); ; Sand; Massive grade of structure; Dry; Firm consistence; Gradual change to -
A22	0.1 - 0.2 m	Brown (10YR4/3-Moist); Pale brown (10YR6/3-Dry); ; Sand; Massive grade of structure; Dry; Strong consistence; Gradual change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); Pale brown (10YR6/3-Dry); ; Sand; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Gradual change to -
B1	0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Sand; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Gradual change to -
B1	0.4 - 0.5 m	Yellowish brown (10YR5/5-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Gradual change to -
B1	0.5 - 0.6 m	Yellowish brown (10YR5/6-Moist); ; Sand (Heavy); Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Gradual change to -
B1	0.6 - 0.75 m	Yellowish brown (10YR5/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Gradual change to -
B2	0.75 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 10YR68; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Gradual change to -
B2	0.9 - 1.2 m	Strong brown (7.5YR5/6-Moist); , 2.5YR58, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Gradual change to -
B2	1.2 - 1.5 m	Red (2.5YR5/8-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy medium clay (Light); Massive grade of structure; Dry; Strong consistence; Gradual change to -

Project Name: Regional
Project Code: REG **Site ID:** T176 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

B2	1.5 - 1.8 m	Red (2.5YR5/8-Moist); , 10YR66, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy medium clay (Light); Massive grade of structure; Dry; Strong consistence; Gradual change to -
	1.8 - 2.1 m	Yellowish brown (10YR5/6-Moist); , 10YR66, 20-50% , 5-15mm, Distinct; , 10YR82, 20-50% , 5-15mm, Distinct; Sandy medium clay (Light); Massive grade of structure; Strong consistence; Gradual change to -
B3	2.1 - 2.4 m	Yellow (10YR7/5-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy medium clay (Light); Massive grade of structure; Dry; Strong consistence; Gradual change to -
	2.4 - 2.7 m	Light grey (10YR7/2-Moist); , 10YR56, 20-50% , 30-mm, Distinct; , 20-50% , 30-mm, Distinct; Sandy medium clay (Light); Massive grade of structure; Strong consistence; Gradual change to -
	2.7 - 2.85 m	Light grey (10YR7/2-Moist); , 10YR56, 20-50% , 30-mm, Distinct; , 20-50% , 30-mm, Distinct; Sandy medium clay (Light); Massive grade of structure; Strong consistence; 0-2%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

LAURA

Observation ID: 1

[illegible]

Project Name: Regional
Project Code: REG **Site ID:** T176 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

0.9 - 1.2
1.2 - 1.5
1.5 - 1.8
1.8 - 2.1
2.1 - 2.4
2.4 - 2.7
2.7 - 2.85

Project Name: Regional
Project Code: REG **Site ID:** T176 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
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_AL	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_CEC	Exchangeable bases- 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
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
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_II	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction