

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T119 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	G. Smith	<b>Locality:</b>	8.6KM north east of Laura along old railway line:
<b>Date Desc.:</b>	04/07/70	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7767 1:100000	<b>Rainfall:</b>	920
<b>Northing/Long.:</b>	144.5	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-15.05	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qs	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	24 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	<1 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Loose

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Ferric Magnesic Red Kandosol		<b>Principal Profile Form:</b>	Gn2.14
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red earth

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Panicum species, Heteropogon triticeus  
 Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus tetrodonta, Eucalyptus polycarpa

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.1 m	Reddish brown (5YR4/4-Moist); Brown (7.5YR5/4-Dry); ; Sand; Single grain grade of structure; Loose consistence; Gradual change to -
A2	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); Reddish yellow (5YR6/6-Dry); ; Sand; Single grain grade of structure; Loose consistence; Gradual change to -
B1	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); Red (2.5YR5/6-Dry); ; Sand; Single grain grade of structure; Firm consistence; Gradual change to -
B1	0.3 - 0.5 m	Dark red (2.5YR3/8-Moist); Red (2.5YR4/8-Dry); ; Sand (Heavy); Massive grade of structure; Firm consistence; Gradual change to -
B1	0.5 - 0.6 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Firm consistence; Gradual change to -
B21	0.6 - 0.7 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Firm consistence; Very few (0 - 2 %), Argillaceous, , Nodules; Gradual change to -
B21	0.7 - 0.8 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Firm consistence; Very few (0 - 2 %), Argillaceous, , Nodules; Gradual change to -
B21	0.8 - 0.9 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Strong consistence; Few (2 - 10 %), Argillaceous, , Nodules; Gradual change to -
B22	0.9 - 1.2 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Light clay; Massive grade of structure; Earthy fabric; Strong consistence; Common (10 - 20 %), Argillaceous, , Nodules; Gradual change to -
B22	1.2 - 1.5 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Light clay; Massive grade of structure; Earthy fabric; Strong consistence; Gradual change to -
B22	1.5 - 1.8 m	Red (10R4/8-Moist); Red (10R4/8-Dry); , 5YR66, 0-2% ; , 0-2% ; Light clay; Massive grade of structure; Earthy fabric; Very strong consistence; Gradual change to -
	1.8 - 2.1 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Clay loam (Heavy); Massive grade of structure; Earthy fabric; Very strong consistence; Gradual change to -

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2.1 - 2.4 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Clay loam (Heavy); Massive grade of structure; Earthy fabric; Very strong consistence; Gradual change to -
2.4 - 2.7 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Firm consistence; Very few (0 - 2 %), Argillaceous, , Nodules; Gradual change to -
2.7 - 3 m	Red (10R4/8-Moist); Red (10R4/8-Dry); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Weak consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Nodules; Clear change to -
3 - 3.3 m	Red (10R4/8-Moist); Red (10R4/8-Dry); , 5YR66, 10-20% , 5-15mm; , 10-20% , 5-15mm; Sandy clay loam; Massive grade of structure; Earthy fabric; Weak consistence; 2-10%, subrounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, , Nodules; Clear change to -
3.3 - 3.4 m	Red (10R4/6-Moist); , 5YR66, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Sandy clay loam; Massive grade of structure; Earthy fabric; Very strong consistence; Clear change to -

**Morphological Notes**

**Observation Notes**

LAYERS RENUMBERED 22-9-92

**Site Notes**

LAURA

**Observation ID: 1**

[illegible]

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0.8 - 0.9  
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 - 3  
3 - 3.3  
3.3 - 3.4

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
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 <sub>2</sub> SO <sub>4</sub> (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_Hm	Hematite - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_K2O	K <sub>2</sub> O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction