

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T36 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	R.F. Isbell	<b>Locality:</b>	Woodstock paddock 1 chain south of road crossing and power line:
<b>Date Desc.:</b>	16/09/64	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8258 1:100000	<b>Rainfall:</b>	870
<b>Northing/Long.:</b>	146.825	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-19.6291666666667	<b>Drainage:</b>	No Data

#### Geology

<b>Exposure Type:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qa	<b>Substrate Material:</b>	Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	2 metres
<b>Elem. Type:</b>	Prior stream	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic 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:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded  
 Mid Strata - , , . \*Species includes - None recorded  
 Tall Strata - Tree, , Sparse. \*Species includes - Eucalyptus polycarpa, Eucalyptus drepanophylla, Eucalyptus

alba

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.06 m	Dark brown (7.5YR3/2-Moist); Brown (7.5YR5/2-Dry); , 0-0% ; , 0-0% ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Clear change to -
A2	0.06 - 0.18 m	Dark reddish brown (5YR3/4-Moist); Reddish brown (5YR5/3-Dry); , 0-0% ; , 0-0% ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Gradual change to -
B1	0.18 - 0.33 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); , 0-0% ; , 0-0% ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Gradual change to -
B2	0.33 - 0.53 m	Red (2.5YR4/6-Moist); , 0-0% ; , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (pH meter, 0.51); Gradual change to -
	0.53 - 0.71 m	Red (2.5YR4/6-Moist); , 10YR61, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Gradual change to -
	0.71 - 1.02 m	Dark red (10R3/6-Moist); , 10YR52, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 6 (pH meter, 0.97); Clear change to -
	1.02 - 1.12 m	;

#### Morphological Notes

Water worn gravel with some redish brown clay matrix:

#### Observation Notes

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LANDSDOWN

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.06	6.4A	0.059A	3.6B	0.9	0.41	0.19	2.4F	8C	7.5F	2.38
0.06 - 0.18	6.3A	0.029A								
0.18 - 0.33	6.1A	<0.03A	2B	0.7	0.23	0.15	2.7F	6C	5.8F	2.50
0.33 - 0.53	6.1A	0.029A								
0.53 - 0.71	6.3A	0.029A	3.8B	1.9	0.35	0.25	3.2F	10C	9.5F	2.50
0.71 - 1.02	6.4A	0.029A								

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**Laboratory Analyses Completed for this profile**

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
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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
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)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance