

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T338 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	R.J. Coventry	<b>Locality:</b>	High terrace of Torrens Ck .6 Km W of creek.
<b>Date Desc.:</b>	30/10/73	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7956 1:100000	<b>Rainfall:</b>	600
<b>Northing/Long.:</b>	145.022222222222	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-20.7680555555556	<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>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** N/A

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Mesotrophic 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:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Heteropogon contortus

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

**Profile Morphology**

A1	0 - 0.1 m	Dark reddish brown (2.5YR2/4-Moist); Yellowish red (5YR4/6-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence;
A1	0.1 - 0.2 m	Dark red (10R3/6-Moist); Dark red (2.5YR3/6-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; Gradual change to -
A3	0.2 - 0.3 m	Dark red (10R3/6-Moist); Dark red (2.5YR3/5-Dry); ; Loamy sand (Heavy); Massive grade of structure; Dry; Very weak consistence; 0-2%, Charcoal, coarse fragments; Gradual change to -
B1	0.3 - 0.6 m	Dark red (10R3/6-Moist); Dark red (10R3/6-Dry); ; Sandy clay loam; Massive grade of structure; Dry; Strong consistence; Diffuse change to -
B21	0.6 - 0.9 m	Dark red (10R3/6-Moist); Dark red (10R3/6-Dry); ; Sandy light clay; Massive grade of structure; Dry; Strong consistence; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B22	0.9 - 1.2 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules;
B22	1.2 - 1.5 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules;
B22	1.5 - 1.8 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules;
B22	1.8 - 2.1 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules;
B22	2.1 - 2.4 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules;
B22	2.4 - 2.7 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules; Diffuse change to -
C1	2.7 - 3 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Nodules;

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C1	3 - 3.5 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Nodules;
C1	3.5 - 4 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Nodules; Gradual change to -
C2	4 - 4.5 m	Dark red (10R3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; , Argillaceous, Medium (2 -6 mm), Nodules;
C2	4.5 - 5 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very strong consistence; , Argillaceous, Medium (2 -6 mm), Nodules;

**Morphological Notes**

**Observation Notes**

SOME PEDOTURBATION IN A1, A3, AND B1.

**Site Notes**

TORRENS CK

**Observation ID: 1**

[illegible]

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2.1 - 2.4  
2.4 - 2.7  
2.7 - 3  
3 - 3.5  
3.5 - 4  
4 - 4.5  
4.5 - 5

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no 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
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
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES)
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 (%)