

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T76 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	R.F. Isbell	<b>Locality:</b>	8.5KM north along Iron Range Road from Wenlock River:
<b>Date Desc.:</b>	23/07/68	<b>Elevation:</b>	152 metres
<b>Map Ref.:</b>	Sheet No. : 7471 1:100000	<b>Rainfall:</b>	1200
<b>Northing/Long.:</b>	142.9875	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-13.0833333333333	<b>Drainage:</b>	No Data

#### Geology

<b>Exposure Type:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	SDk	<b>Substrate Material:</b>	Auger boring, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Alluvial fan
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	15 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Parapanic Humic Aeris Podzol	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Uc2.32
		<b>Great Soil Group:</b>	Podzol

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

#### Vegetation:

Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Melaleuca species, Acacia species  
 Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus tetrodonta

**Surface Coarse Fragments:** 10-20%, fine gravelly, 2-6mm, , Quartz

#### Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewClear, Irregular change to -
A21	0.1 - 0.2 m	Grey (10YR6/1-Moist); Light grey (10YR7/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewGradual change to -
A22	0.2 - 0.3 m	Light grey (10YR7/1-Moist); White (10YR8/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Few
A22	0.3 - 0.6 m	Light grey (10YR7/1-Moist); White (10YR8/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Clear change to -
B	0.6 - 0.9 m	Brown (10YR4/3-Moist); , 7.5YR56, 0-2% ; , 0-2% ; Loamy sand; Massive grade of structure; Strong consistence; , Continuous, Nodular; Gradual change to -
BC	0.9 - 1.1 m	Pale brown (10YR6/3-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Other, , Nodules; Clear change to -
C	1.1 - 1.2 m	Very pale brown (10YR7/4-Moist); ; Sand; Single grain grade of structure; Weak consistence; 50-90%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Gradual change to -
C	1.2 - 1.5 m	Reddish yellow (7.5YR6/5-Moist); , 2.5YR58, 0-2% , 0-5mm; , 0-2% , 0-5mm; Coarse sand; Single grain grade of structure; Weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Gradual change to -
D	1.5 - 1.8 m	Reddish yellow (7.5YR6/5-Moist); , 2.5YR58, 2-10% ; , 2-10% ; Sandy loam (Heavy); Firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Gradual change to -
D	1.8 - 2 m	White (10YR8/2-Moist); , 2.5YR58; Light clay (Heavy); Very firm consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;

#### Morphological Notes

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**Observation Notes**

**Site Notes**

WENLOCK R.

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
12_NR_CU	Total element - Cu(mg/kg) - Not recorded
12_NR_ZN	Total element - Zn(mg/kg) - Not recorded
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
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO <sub>3</sub> extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES)
9H_NR	Posphate retention % - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction