

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T374 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	M.G. Cannon	<b>Locality:</b>	
<b>Date Desc.:</b>	24/11/83	<b>Elevation:</b>	5 metres
<b>Map Ref.:</b>	Sheet No. : 8061 1:100000	<b>Rainfall:</b>	2250
<b>Northing/Long.:</b>	145.975	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-18.216666666667	<b>Drainage:</b>	Rapidly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Beach ridge plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	3 metres
<b>Elem. Type:</b>	Beach ridge	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Melanic Regolithic Chernic Tenosol		<b>Principal Profile Form:</b>	Uc5.11
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Siliceous sand
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:**

Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Panicum species, Acacia aulacocarpa  
Tall Strata - Tree, 20.01-35m, Mid-dense. \*Species includes - Acacia mangium, Eucalyptus pellita, Eucalyptus

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

**Profile Morphology**

A11	0 - 0.1 m	Black (10YR2/1-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Loose consistence; Few, very fine (0-1mm) roots;
A11	0.1 - 0.2 m	Black (10YR2/1-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Loose consistence; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
A12	0.2 - 0.3 m	Brown (7.5YR4/4-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Loose consistence; Few, very fine (0-1mm) roots;
A12	0.3 - 0.4 m	Brown (7.5YR4/4-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Loose consistence; Few, very fine (0-1mm) roots; Diffuse, Broken change to -
AB	0.4 - 0.6 m	Brown (7.5YR5/4-Moist); Mottles, 5YR46, 0-2% , 0-5mm, Distinct; Mottles, 0-2% , 0-5mm, Distinct; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Loose consistence; Few, very fine (0-1mm) roots; Diffuse, Broken change to -
B21	0.6 - 0.9 m	Yellowish red (5YR5/8-Moist); Mottles, 10YR78, 2-10% , 5-15mm, Distinct; Mottles, 2-10% , 5-15mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots;
B21	0.9 - 1.2 m	Yellowish red (5YR5/8-Moist); Mottles, 10YR78, 2-10% , 5-15mm, Distinct; Mottles, 2-10% , 5-15mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Diffuse, Broken change to -
B22	1.2 - 1.5 m	Yellowish red (5YR5/8-Moist); Mottles, 10YR78, 20-50% , 5-15mm, Distinct; Mottles, 20-50% , 5-15mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Diffuse, Broken change to -

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C      1.5 - 1.8 m      Yellow (10YR7/8-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO <sub>4</sub> Digest
12_HF_FE	Total element - Fe(%) - HF/HClO <sub>4</sub> Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO <sub>4</sub> Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO <sub>4</sub> Digest
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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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 salts
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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
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)
9H1	Phosphate retention
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 (%)