

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T319 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	I. Lepsch	<b>Locality:</b>	
<b>Date Desc.:</b>	15/09/81	<b>Elevation:</b>	66 metres
<b>Map Ref.:</b>	Sheet No. : 8062 1:10000	<b>Rainfall:</b>	3500
<b>Northing/Long.:</b>	145.958333333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-17.65	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	Existing vertical exposure	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Cza	<b>Substrate Material:</b>	No Data

**Land Form**

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

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Acidic Dystrophic Red Kandosol		<b>Principal Profile Form:</b>	Uf6.31
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Krasnozern
All necessary analytical data are available.			

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

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

**Profile Morphology**

Ap	0 - 0.2 m	Dusky red (10R3/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Granular; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Diffuse change to -
B1	0.2 - 0.5 m	Dark red (10R3/5-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Diffuse change to -
B21	0.5 - 1 m	Dark red (10R3/5-Moist); ; Medium clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Diffuse change to -
B22	1 - 1.4 m	Dark red (10R3/6-Moist); ; Medium clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Diffuse change to -
B23	1.4 - 1.8 m	Dark red (10R3/6-Moist); ; Medium clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Clear change to -
B31	1.8 - 2.2 m	Dark red (10R3/6-Moist); ; Medium clay; Massive grade of structure; Moist; Weak consistence; Diffuse change to -
B32	2.2 - 2.5 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Firm consistence;

**Morphological Notes**

**Observation Notes**

SOME TABULAR YELLOW CONCRETIONS FROM 180CM:

**Site Notes**

INNISFAIL

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP	
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%	
0 - 0.2	4.7D 5A		0.02H	<0.01	0.05	0.02	0.4F	1.34A	0.5F	1.49
0.2 - 0.5	5D 5.2A		0.02H	<0.01	0.04	0.02	0.2F		0.3F	
0.5 - 1	5.4D 5.4A		0.04H	0.1	0.05	0.03	0.2F		0.4F	
1 - 1.4	5.5D 5.4A									
1.4 - 1.8	5.6D 5.3A		0.02H	<0.01	0.04	0.03	0.2F	0.79A	0.3F	3.80
1.8 - 2.2	5.7D 5.4A							0.06A		
2.2 - 2.5	5.7D 5.4A		0.3H	0.22	0.08	0.03	0.1F	<0.1A	0.7F	

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		Silt	Clay
0 - 0.2		1.45D							8A	14	13	65
0.2 - 0.5		0.83D							8A	14	12	66
0.5 - 1		0.43D							8A	15	10	67
1 - 1.4												
1.4 - 1.8		0.29D							7A	13	13	67
1.8 - 2.2												
2.2 - 2.5		0.03D							8A	12	15	65

[illegible]

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**Laboratory Analyses Completed for this profile**

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
4A1	pH of 1:5 soil/water suspension
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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