Project Name: **Regional**
Project Code: **REG** **Site ID:** **T313** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: I. Lepsch
Locality: Palmerston Highway about 700M east of Crawfords Lookout:
Date Desc.: 31/08/81
Elevation: 336 metres
Map Ref.: Sheet No. : 8062 1:100000
Rainfall: 3500
Northing/Long.: 145.804166666667
Runoff: Slow
Easting/Lat.: -17.6208333333333
Drainage: Well drained

Geology

ExposureType: Undisturbed soil core
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Cza
Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Pattern Type: Lava plain
Morph. Type: No Data
Relief: No Data
Elem. Type: Plain
Slope Category: No Data
Slope: 2 %
Aspect: No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Dystrophic Brown Ferrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Uf6.31
Great Soil Group: Krasnozem

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.15 m	Dark reddish brown (5YR3/3-Moist); Reddish brown (5YR4/4-Dry); ; Medium clay; Strong grade of structure, 5-10 mm, Granular; Moist; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Clear change to -
A3	0.15 - 0.4 m	Dark red (2.5YR3/5-Moist); Yellowish red (5YR4/6-Dry); ; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B11	0.4 - 0.65 m	Dark red (2.5YR3/6-Moist); Yellowish red (5YR4/6-Dry); ; Medium clay; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B12	0.65 - 0.85 m	Yellowish red (5YR3/6-Moist); Yellowish red (5YR5/6-Dry); ; Medium clay; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Clear change to -
B2	0.85 - 1.15 m	Strong brown (7.5YR4/6-Moist); Strong brown (7.5YR5/6-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, subangular, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Diffuse change to -
B2	1.15 - 1.4 m	Strong brown (7.5YR4/6-Moist); Strong brown (7.5YR5/6-Dry); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Diffuse change to -
B2	1.4 - 1.65 m	Strong brown (7.5YR4/6-Moist); Strong brown (7.5YR5/6-Dry); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
	1.65 - 2 m	Dark brown (7.5YR3/4-Moist); Strong brown (7.5YR4/6-Dry); ; Medium clay;
	2 - 2.5 m	Dark brown (7.5YR3/4-Moist); Strong brown (7.5YR4/6-Dry); ; Medium clay;
	2.5 - 3 m	Dark brown (7.5YR3/4-Moist); Strong brown (7.5YR4/6-Dry); ; Medium clay;
	3 - 3.5 m	Dark brown (7.5YR3/4-Moist); Strong brown (7.5YR4/6-Dry); ; Medium clay;

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3.5 - 4 m	Dark brown (7.5YR3/4-Moist); Strong brown (7.5YR4/6-Dry); ; Medium clay;

Morphological Notes

Observation Notes

NOT A GOOD FIT IN Uf6:

Site Notes

INNISFAIL

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.15	4.9D 5.6A		2.99H	1.6	0.26	0.04	0.3F	4.75A	5.2F	0.84
0.15 - 0.4	5.5D 5.7A		0.39H	0.19	0.04	0.03	0.3F	1.72A	1F	1.74
0.4 - 0.65	5.3D 5.4A		0.03H	<0.01	0.03	0.02	0.2F		0.3F	
0.65 - 0.85	5.5D 5.4A		<0.02H	<0.01	0.03	0.02	0.02F		0.1F	
0.85 - 1.15	5.8D 5.4A							<0.1A		
1.15 - 1.4	5.8D 5.3A		<0.02H	<0.01	0.03	0.02	0.2F	0.34A	0.3F	5.88
1.4 - 1.65	5.8D 5.2A									
1.65 - 2	5.8D 5.2A		<0.02H	<0.01	0.02	0.02	0.2F	0.25A	0.3F	8.00
2 - 2.5	5.7D 5.1A									
2.5 - 3	5.7D 5.1A		<0.02H	<0.01	0.03	0.03	0.2F	0.35A	0.3F	8.57
3 - 3.5	5.6D 5A									
3.5 - 4	5.6D 4.9A		<0.02H	<0.01	0.03	0.02	0.2F	0.34A	0.3F	5.88

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15		4.43D							9A	8	19	64
0.15 - 0.4		1.58D							7A	8	19	66
0.4 - 0.65		1.15D							15A	8	16	61
0.65 - 0.85		0.76D							11A	8	21	60
0.85 - 1.15									9A	5	21	65
1.15 - 1.4		0.31D							8A	5	16	71
1.4 - 1.65									7A	8	16	69
1.65 - 2		0.2D							6A	8	18	68
2 - 2.5												
2.5 - 3									7A	12	20	61
3 - 3.5												
3.5 - 4		0.07D							7A	16	25	52

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.15									
0.15 - 0.4									
0.4 - 0.65									
0.65 - 0.85									
0.85 - 1.15									

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1.15 - 1.4
1.4 - 1.65
1.65 - 2
2 - 2.5
2.5 - 3
3 - 3.5
3.5 - 4

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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 (Ca2+,Mg2+,Na+,K+) 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