Project Name: **Regional**
Project Code: **REG** **Site ID:** **T316** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: I. Lepsch
Date Desc.: 02/09/81
Map Ref.: Sheet No. : 8062 1:100000
Northing/Long.: 145.891666666667
Easting/Lat.: -19.5458333333333
Locality:
Elevation: 99 metres
Rainfall: 3500
Runoff: Rapid
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Hillslope
Slope: 7 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

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

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); Reddish brown (5YR4/4-Dry); ; Moderate grade of structure, 5-10 mm, Granular; Moderately moist; Weak consistence; 2-10%, Basalt, coarse fragments; Clear change to -
A3	0.2 - 0.4 m	Dark red (2.5YR3/5-Moist); Red (2.5YR4/6-Dry); ; Weak grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, Basalt, coarse fragments; Clear change to -
B1	0.4 - 0.6 m	Dark red (2.5YR3/5-Moist); Yellowish red (5YR4/6-Dry); ; Weak grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, Basalt, coarse fragments; Diffuse change to -
B1	0.6 - 0.8 m	Dark red (2.5YR3/5-Moist); Yellowish red (5YR4/6-Dry); ; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Weak consistence;
B1	0.8 - 1 m	Reddish brown (2.5YR4/4-Moist); Yellowish red (5YR4/6-Dry); ; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Firm consistence; Clear change to -
B21	1 - 1.3 m	Red (2.5YR4/5-Moist); Yellowish red (5YR4/6-Dry); ; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence;
B22	1.3 - 1.6 m	Red (2.5YR4/5-Moist); Yellowish red (5YR5/6-Dry); ; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence;
B22	1.6 - 1.8 m	Red (2.5YR4/5-Moist); Yellowish red (5YR5/6-Dry); ; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence;
B22	1.8 - 2 m	Red (2.5YR4/5-Moist); Yellowish red (5YR5/6-Dry); ; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -
B31	2 - 2.3 m	Reddish brown (5YR4/4-Moist); Yellowish red (5YR4/6-Dry); , 2.5YR45, 10-20% , 15-30mm, Faint; , 10-20% , 15-30mm, Faint; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Clear change to -
B32	2.3 - 2.6 m	Dark reddish brown (5YR3/4-Moist); Reddish brown (5YR4/4-Dry); , 2.5YR44, 10-20% , 15-30mm, Faint; , 10-20% , 15-30mm, Faint; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence;

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B3C	2.6 - 2.9 m	Dark reddish brown (5YR3/4-Moist); Reddish brown (5YR4/4-Dry); , 5YR44, 10-20% , 15-30mm, Faint; , 5YR82, 10-20% , 15-30mm, Faint; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence;

Morphological Notes

Observation Notes

FEW DIFFUSE WHITISH PATCHES 5-10MM SIZE FROM 180CM:

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 - 0.2	4.3D 4.8A		0.08H	0.08	0.13	0.04	1.7F	2.22A	2F	1.80
0.2 - 0.4	4.5D 4.8A		<0.02H	<0.01	0.51	0.03	1F		1.6F	
0.4 - 0.6	4.7D 5A		0.1H	0.05	0.03	0.04	0.4F		0.6F	
0.6 - 0.8	4.7D 4.9A									
0.8 - 1	4.5D 4.8A		0.41H	<0.01	0.03	0.03	0.7F	1.37A	1.2F	2.19
1 - 1.3	4.4D 4.9A									
1.3 - 1.6	4.3D 5A		<0.02H	0.49	0.03	0.06	2.8F	1.5A	3.4F	4.00
1.6 - 1.8	4.3D 4.9A									
1.8 - 2	4.2D 4.9A		<0.02H	0.7	0.03	0.05	3.9F		4.7F	
2 - 2.3	4.2D 4.9A		<0.02H	0.6	0.03	0.05	4.2F		4.9F	
2.3 - 2.6	4.2D 4.8A									
2.6 - 2.9	4.1D 4.7A		<0.02H	0.46	0.03	0.05	6.2F	<0.1A	6.8F	

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 - 0.2		2.13D							3A	8	22	67
0.2 - 0.4		0.84D							2A	8	18	72
0.4 - 0.6									2A	10	22	66
0.6 - 0.8									2A	12	27	59
0.8 - 1		0.31D							2A	14	30	54
1 - 1.3												
1.3 - 1.6		0.09D							1A	16	30	53
1.6 - 1.8												
1.8 - 2		0.08D							<1A	18	30	52
2 - 2.3									<1A	17	27	56
2.3 - 2.6												
2.6 - 2.9		0.05D							<1A	19	25	56

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 - 0.2									
0.2 - 0.4									
0.4 - 0.6									
0.6 - 0.8									
0.8 - 1									

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1 - 1.3
1.3 - 1.6
1.6 - 1.8
1.8 - 2
2 - 2.3
2.3 - 2.6
2.6 - 2.9

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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