

Project Name: Regional
Project Code: REG **Site ID:** T315 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	I. Lepsch	Locality:	
Date Desc.:	03/09/81	Elevation:	69 metres
Map Ref.:	Sheet No. : 8062 1:100000	Rainfall:	3500
Northing/Long.:	145.966666666667	Runoff:	Rapid
Easting/Lat.:	-17.6375	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:	No Data	Pattern Type:	Lava plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

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

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.2 m	Dusky red (10R3/3-Moist); Dark red (2.5YR3/6-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Granular; Moderately moist; Very weak consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Clear change to -
B1	0.2 - 0.4 m	Dusky red (10R3/4-Moist); Dusky red (10R3/4-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very weak consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B21	0.4 - 0.7 m	Dusky red (10R3/4-Moist); Dark red (2.5YR3/5-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Moderately moist; Very weak consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B21	0.7 - 1 m	Dusky red (10R3/4-Moist); Dark red (2.5YR3/6-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Moderately moist; Weak consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B21	1 - 1.1 m	Dusky red (10R3/4-Moist); Red (2.5YR4/6-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Massive grade of structure; Moderately moist; Weak consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
B22	1.1 - 1.35 m	Dark red (10R3/6-Moist); Red (2.5YR4/6-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Firm consistence; Clear change to -
B22	1.35 - 1.7 m	Dark red (10R3/6-Moist); Red (2.5YR4/7-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very firm consistence; 2-10%, Basalt, coarse fragments; Diffuse change to -
B23	1.75 - 2.05 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/7-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very firm consistence; 2-10%, Basalt, coarse fragments; Diffuse change to -
B23	2.05 - 2.35 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/7-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very firm consistence; Clear change to -
B23	2.35 - 2.65 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/8-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very firm consistence; Diffuse change to -

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B3	2.65 - 2.9 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/8-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -
B3	2.9 - 3.1 m	Yellowish red (5YR3/6-Moist); Red (2.5YR4/8-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -
B3	3.1 - 3.3 m	Reddish brown (5YR4/4-Moist); Yellowish red (5YR5/6-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Diffuse change to -
B3	3.3 - 3.6 m	Reddish brown (5YR4/4-Moist); Yellowish red (5YR5/6-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence;

Morphological Notes

Observation Notes

STRONG VERMIFORM STRUCTURE FROM 290CM:

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
						Cmol	(+)/kg			
0 - 0.2	4.6D 4.6A		0.22H	0.02	0.05	0.04	0.4F	1.2A	0.7F	3.33
0.2 - 0.4	4.7D 4.6A		<0.02H	<0.01	0.03	0.02	0.3F		0.4F	
0.4 - 0.7	5.4D 5.1A		<0.02H	<0.01	0.04	0.02	0.3F		0.4F	
0.7 - 1	5.8D 4.7A		<0.02H	<0.01	0.03	0.02	0.1F		0.2F	
1 - 1.1										
1.1 - 1.35	6.2D 5.3A							<0.1A		
1.35 - 1.7	6.2D 5.4A		<0.02H	<0.01	0.03	0.02	0.1F	0.64A	0.2F	3.13
1.75 - 2.05	6D 5.3A									
2.05 - 2.35	6D 5.3A		0.03H	<0.01	0.03	0.02	0.01F		0.1F	
2.35 - 2.65	6D 5.3A									
2.65 - 2.9	6D 5.3A		0.25H	<0.01	0.03	0.02	0.1F	0.45A	0.4F	4.44
2.9 - 3.1	5.8D 5.2A									
3.1 - 3.3	5.6D 5.3A									
3.3 - 3.6	5.4D 5.3A		1.3H	0.1	0.14	0.03	0.1F	<0.1A	1.7F	

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
								GV	CS		Silt	Clay
0 - 0.2		1.78D							15A	18	13	54
0.2 - 0.4		0.88D							17A	14	12	57
0.4 - 0.7		0.47D							25A	14	9	52
0.7 - 1		0.39D							25A	16	9	50
1 - 1.1												
1.1 - 1.35									11A	13	18	58
1.35 - 1.7		0.18D							7A	15	23	55
1.75 - 2.05		<0.05D							9A	16	24	51
2.05 - 2.35		0.2D							7A	17	27	49
2.35 - 2.65									8A	16	26	50
2.65 - 2.9									5A	17	25	53
2.9 - 3.1		<0.05D							6A	19	28	47
3.1 - 3.3									4A	15	25	56
3.3 - 3.6		<0.05D							3A	13	25	59

[illegible]

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0.2 - 0.4
0.4 - 0.7
0.7 - 1
1 - 1.1
1.1 - 1.35
1.35 - 1.7
1.75 - 2.05
2.05 - 2.35
2.35 - 2.65
2.65 - 2.9
2.9 - 3.1
3.1 - 3.3
3.3 - 3.6

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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 ²⁺ ,Mg ²⁺ ,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