Project Name: Regional

Project Code: REG Site ID: T325 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Locality: G.G. Murtha

Desc. By: Date Desc.: Elevation: 01/12/81 10 metres

Sheet No.: 7965 1:100000 Map Ref.: Rainfall: 0 Northing/Long.: 145.383333333333 Runoff: No Data Easting/Lat.: -16.28333333333333 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Alluvial plain Morph. Type: Elem. Type: No Data Relief: No Data Plain **Slope Category:** No Data No Data Slope: 0 % Aspect:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Acidic Dystrophic Brown Dermosol **Principal Profile Form:** Uf6.34

No suitable group **ASC Confidence: Great Soil Group:**

All necessary analytical data are available. Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1p	0 - 0.1 m	Brown (10YR5/3-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, , Nodules; Diffuse change to -
A2p	0.1 - 0.2 m	Brown (10YR5/3-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Very firm consistence; Few (2 - 10 %), Ferruginous, , Nodules; Clear change to -
B21	0.2 - 0.3 m	Yellowish brown (10YR5/5-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence;
B21	0.3 - 0.6 m	Yellowish brown (10YR5/5-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence; Diffuse change to -
B22	0.6 - 0.9 m	Brown (7.5YR5/4-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence;
B22	0.9 - 1.2 m	Brown (7.5YR5/4-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Very firm consistence; Gradual change to -
D1	1.2 - 1.5 m	Brown (10YR5/3-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence;
D1	1.5 - 1.8 m	Brown (10YR5/3-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Gradual change to -
D2	1.8 - 2 m	Yellowish brown (10YR5/6-Moist); , 10YR63, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence;

Morphological Notes

Observation Notes

SOME MACHINERY COMPACTION BETWEEN 0-30CM:

Site Notes

DAINTREE

Regional REG Site ID: T325 CSIRO Division of Soils (QLD) Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:													
Depth	рН	1:5 EC		hangeable Mg	Cations K	E Na	xchangeable Acidity	CEC		ECEC	E	SP	
m		dS/m		9		Cmol (+)					%	D.	
0 - 0.1	4.9A	0.068A	0.24H	0.29	0.46	0.07	2.2F	2.85 <i>F</i> 5C	Ą	3.3F		46 40	
0.1 - 0.2 0.2 - 0.3	4.7A 4.8A	0.041A 0.032A	0.04H	0.13	0.05	0.06 2.1F		2.52A 4C		2.4F	.4F 2.38 1.50		
0.3 - 0.6 0.6 - 0.9	5A 5.2A	0.02A 0.02A	0.14H	0.13	0.07	0.08	2.6F	2.59A 4C		3F	3.09 2.00		
0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2	5A 4.8A 4.8A	0.026A 0.017A 0.02A						.0					
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pai GV	rticle CS	Size A	Analysis Silt (lay	
	70						•						
0 - 0.1 0.1 - 0.2		1.43D	27B 10B	0.037 <i>A</i>	0.1	3A 1.8	A	0	4A	48	26	23	
0.2 - 0.3 0.3 - 0.6		0.47D	5B		0.0	6A		0	1A 1A	52 53	23	23	
0.5 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2			4B 5B	0.029A	\	2A		0	1A 1A	39	26 35	20 25	
Depth	COLE					Vater Cont			K sa	at	K unsat		
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15 I	Bar	mm/	'h	mm/h		
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6													

0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8

Project Name: Regional

REG T325 Observation ID: 1 **Project Code:** Site ID:

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

13C1_FE Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon

15A2_CEC 15D1_CEC Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach

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

Effective CEC 15J1

17A1 Total potassium - X-ray fluorescence

2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water suspension

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method

Total nitrogen - semimicro Kjeldahl , automated colour 7A2

Total phosphorus - X-ray fluorescence 9A1

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_CF_C Clay (%) - Coventry and Fett pipette method

P10 CF CS Coarse sand (%) - Coventry and Fett pipette method P10_CF_FS P10_CF_Z Fine sand (%) - Coventry and Fett pipette method

Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)