Project Name: **Regional**
Project Code: **REG** **Site ID:** **T185** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Date Desc.: 23/11/70
Map Ref.: Sheet No. : 8259 1:100000
Northing/Long.: 146.659722222222
Easting/Lat.: -19.2388888888889
Locality: 1.2KM north of Stony Creek on Bruce Highway:
Elevation: 15 metres
Rainfall: 1140
Runoff: Slow
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: 0 metres
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Yellow Kandosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Gn2.64
Great Soil Group: Yellow earth

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Melaleuca viridiflora

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus papuana, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Massive grade of structure; Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Clear change to -
A2	0.04 - 0.1 m	Yellowish brown (10YR5/6-Moist); , 10YR52, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Clay loam; Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Gradual change to -
B2	0.1 - 0.2 m	Brownish yellow (10YR6/8-Moist); , 10YR54, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
B2	0.2 - 0.3 m	Brownish yellow (10YR6/8-Moist); , 10YR54, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Gradual change to -
B2	0.3 - 0.45 m	Brownish yellow (10YR6/8-Moist); , 10YR52, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light medium clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Clear change to -
D	0.45 - 0.6 m	Light brownish grey (10YR6/2-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
	0.6 - 0.9 m	Light brownish grey (10YR6/2-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Strong consistence; 2-10%, medium gravelly, 6-20mm, Granite, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
	0.9 - 1.05 m	Light brownish grey (10YR6/2-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very strong consistence;

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W`kly cemented SC pan to v.strong cemented SC pan at 170CM:

Observation Notes

90-105CM MUCH FINE GRANITIC GRIT FROM 100CM:

Site Notes

BLUEWATER

Morphological Notes

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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 - 0.04	6.4A	0.041A								
0.04 - 0.1	6.3A	0.023A								
0.1 - 0.2	6.1A	0.032A								
0.2 - 0.3	6A	0.026A								
0.3 - 0.45	6A	0.029A								
0.45 - 0.6	6.1A	0.035A								
0.6 - 0.9	6.3A	0.047A								
0.9 - 1.05	6.7A	0.086A								

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 - 0.04		1.76D	6A 6B		0.13A							
0.04 - 0.1												
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.45												
0.45 - 0.6												
0.6 - 0.9												
0.9 - 1.05												

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 - 0.04									
0.04 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.45									
0.45 - 0.6									
0.6 - 0.9									
0.9 - 1.05									

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Laboratory Analyses Completed for this profile

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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M $NaHCO_3$ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H_2SO_4 (BSES)