Project Name: **Regional**
Project Code: **REG** **Site ID:** **T171** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By:	G.G. Murtha	**Locality:**	1.3KM north of Pretty Plains turnoff on Hann Highway:
Date Desc.:	14/05/71	**Elevation:**	875 metres
Map Ref.:	Sheet No. : 7757 1:100000	**Rainfall:**	560
Northing/Long.:	144.319444444444	**Runoff:**	Rapid
Easting/Lat.:	-20.0791666666667	**Drainage:**	Well drained

Geology

ExposureType:	Undisturbed soil core	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Czm	**Substrate Material:**	Undisturbed soil core, 0.7 m deep,Basalt

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Plain
Morph. Type:	Simple-slope	**Relief:**	0 metres
Elem. Type:	Plain	**Slope Category:**	Very gently sloped
Slope:	2 %	**Aspect:**	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Brown Ferrosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn3.2
Great Soil Group: No suitable group

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

Surface Coarse Fragments: 0-2%, , subrounded, Basalt

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Loam; Weak grade of structure, 2-5 mm, Angular blocky; Dry; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
B1	0.1 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
	0.2 - 0.3 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules;
B2	0.3 - 0.45 m	Strong brown (7.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
BC	0.45 - 0.6 m	Strong brown (7.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
	0.6 - 0.75 m	;

Morphological Notes

Weathered basalt with some pockets of B MC:

Observation Notes

OCCASIONAL BASALT FLOATER ON SURFACE AND THROUGH PROFILE:

Site Notes

PRETTY PLAINS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.9A	0.047A	10.7B	4.5	0.96	0.03				
0.1 - 0.2	6.9A	0.044A	10.7B	3.7	0.85	0.03				
0.2 - 0.3	6.9A	0.041A	10B	3.8	0.73	0.03				
0.3 - 0.45	6.9A	0.05A	8.3B	3.9	0.59	0.05				
0.45 - 0.6	6.2A	0.059A								
0.6 - 0.75		0.059A								

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 - 0.1		1.48D	53B		0.09A			0	27A	17	23	35
0.1 - 0.2		0.89D	9B		0.08A			0	25A	14	22	39
0.2 - 0.3		0.78D	6B		0.07A			0	25A	14	19	45
0.3 - 0.45		0.45D	4B		0.05A			0	21A	11	18	53
0.45 - 0.6		0.34D						0	25A	9	10	56
0.6 - 0.75								0	37A	37	17	9

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.45										
0.45 - 0.6										
0.6 - 0.75										

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Laboratory Analyses Completed for this profile

12_HF_CU	Total element - Cu(mg/kg) - HF/HClO4 Digest
12_HF_FE	Total element - Fe(%) - HF/HClO4 Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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
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	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction