

Project Name: Regional
Project Code: REG **Site ID:** T204 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Near TV transmitter on south peak of Bellenden Ker near crest:
Date Desc.:	14/09/72	Elevation:	1550 metres
Map Ref.:	Sheet No. : 8063 1:100000	Rainfall:	0
Northing/Long.:	145.871111111111	Runoff:	Rapid
Easting/Lat.:	-17.465555555556	Drainage:	Moderately well drained

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pgm	Substrate Material:	Auger boring, 1 m deep, Granite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Mountains
Morph. Type:	Upper-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	17.6 %	Aspect:	90 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic-Mottled Dystrophic Brown Kandosol		Principal Profile Form:	Gn3
ASC Confidence:		Great Soil Group:	Xanthozem
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: 20-50%, bouldery, 600mm-2m, subrounded, Granite

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam (Heavy); Weak grade of structure, 2-5 mm, Granular; Weak consistence; Abundant, fine (1-2mm) roots; Gradual change to -
A11	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam (Heavy); Weak grade of structure, 2-5 mm, Granular; Weak consistence; Many, fine (1-2mm) roots; Diffuse change to -
A21	0.2 - 0.3 m	Brown (10YR4/3-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Granular; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots; Gradual change to -
A22	0.3 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots; Gradual change to -
B1	0.4 - 0.6 m	Yellowish brown (10YR5/5-Moist); ; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Subangular blocky; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B2	0.6 - 0.9 m	Yellowish brown (10YR5/6-Moist); ; 7.5YR5/6, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy light clay (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Few, fine (1-2mm) roots;
BC	0.9 - 1 m	Yellowish brown (10YR5/6-Moist); ; Sandy light clay;

Morphological Notes

BC Parent material:

Observation Notes

BC (90-100CM) GRITTY LC WITH MANY AREAS OF SOFT WEATHERED MEDIUM GRAINED GRANITE:

Site Notes

BELLENDEEN KER

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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 - 0.1	4.3A	0.065A	0.26B	0.3	0.07	0.05			
0.1 - 0.2	4.5A	<0.05A							
0.2 - 0.3	4.7A	<0.05A	0.08B	0.13	0.08	0.07			
0.3 - 0.4	4.8A	<0.05A							
0.4 - 0.6	4.9A	<0.05A	0.08B	0.05	0.06	0.05			
0.6 - 0.9	5A	<0.05A	0.08B	0.05	0.03	0.05			
0.9 - 1	5A	<0.05A							

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (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 (%)