

Project Name: BAC
Project Code: BAC **Site ID:** T484 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	On highway just north of Maitland Road turnoff.
Date Desc.:	09/12/87	Elevation:	20 metres
Map Ref.:	Sheet No. : 8063 1:100000	Rainfall:	0
Northing/Long.:	145.766666666667	Runoff:	Moderately rapid
Easting/Lat.:	-17.0569444444444	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial fan
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Very gently sloped
Slope:	0.8 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Magnesic Yellow Dermosol		Principal Profile Form:	Gn3.71
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.11 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very firm consistence; Common, fine (1-2mm) roots; Gradual change to -
B1	0.11 - 0.28 m	Yellowish brown (10YR5/4-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common, fine (1-2mm) roots; Diffuse change to -
B21	0.28 - 0.46 m	Brownish yellow (10YR6/6-Moist); , 5YR68, 0-2% , 0-5mm, Faint; , 0-2% , 0-5mm, Faint; Medium heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots; Diffuse change to -
B22	0.46 - 0.66 m	Reddish yellow (7.5YR6/6-Moist); , 5YR68, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Medium heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Few, fine (1-2mm) roots; Diffuse change to -
B23	0.66 - 0.84 m	Light yellowish brown (10YR6/4-Moist); , 5YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Few, fine (1-2mm) roots;
B23	0.84 - 1.15 m	Light yellowish brown (10YR6/4-Moist); , 5YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Few, fine (1-2mm) roots; Diffuse change to -
B3	1.15 - 1.44 m	White (10YR8/1-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Firm consistence; Diffuse change to -
BC	1.44 - 1.8 m	Yellowish brown (10YR5/6-Moist); , 10YR82, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy light clay; Massive grade of structure; Moderately moist; Firm consistence;
BC	1.8 - 2 m	Yellowish brown (10YR5/6-Moist); , 10YR82, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy light clay; Massive grade of structure; Moderately moist; Firm consistence;

Morphological Notes

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Observation Notes

Site Notes

MERINGA

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_XRF_CU	Total element - Cu(mg/kg) - X-Ray Fluorescence
12_XRF_FE	Total element - Fe(%) - X-Ray Fluorescence
12_XRF_MN	Total element - Mn(mg/kg) - X-Ray Fluorescence
12_XRF_ZN	Total element - Zn(mg/kg) - X-Ray Fluorescence
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
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
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
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)
9H1	Phosphate retention
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 (%)