

**Project Name:** BOB  
**Project Code:** BOB      **Site ID:** B511      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	R. Paton	<b>Locality:</b>	
<b>Date Desc.:</b>	06/11/63	<b>Elevation:</b>	238 metres
<b>Map Ref.:</b>	Sheet No. : 9442    1:100000	<b>Rainfall:</b>	864
<b>Northing/Long.:</b>	152.749444444444	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	-27.91	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Jm	<b>Substrate Material:</b>	Soil pit, 1 m deep,Sandstone

**Land Form**

<b>Rel/Slope Class:</b>	Steep hills 90-300m 32-56%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	213 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	15.7 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Melanic Natric Brown Kurosol		<b>Principal Profile Form:</b>	Db4.11
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:**

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Acacia harpophylla

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A11	0 - 0.11 m	Dark brown (7.5YR3/3-Moist); ; Loam (Heavy); Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, angular, Sandstone, coarse fragments; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Clear change to -
A12	0.11 - 0.25 m	Dark brown (7.5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Sandstone, coarse fragments; Field pH 7 (pH meter); Many, fine (1-2mm) roots; Clear, Irregular change to -
B2	0.25 - 0.51 m	Strong brown (7.5YR5/6-Moist); , 10YR53; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Sandstone, coarse fragments; Field pH 5.3 (pH meter); Many, fine (1-2mm) roots; Gradual
B2	0.51 - 1.02 m	Pale yellow (2.5Y7/3-Moist); , 10YR66; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; 0-2%, Quartz, coarse fragments; Field pH 4.9 (pH meter); Common, fine (1-2mm) roots; Clear change to -
C	1.02 - 1.09 m	; 50-90%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; Field pH 5.5 (pH meter);

**Morphological Notes**

C Yellowish brown weathered sandstone.

**Observation Notes**

AFFINITIES WITH PRAIRIE SOIL G.S.G.:BRIGALOW - SOFTWOOD SCRUB:

**Site Notes**

MILLBONG

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.11	6H	0.07B	29.2K	3	2.7	0.26	15.3D			
0.11 - 0.25	7H	0.03B								
0.25 - 0.51	5.3H	0.07B	11.3K	11.4	0.25	2	8.1D			
0.51 - 1.02	4.9H	0.14B								
1.02 - 1.09	5.5H	0.13B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.11		6.29A	43C	0.078F	0.695B			3	22C	22	8	29
0.11 - 0.25		2.28A						1	23C	25	10	34
0.25 - 0.51		0.49A		0.011F				1	8C	36	13	41
0.51 - 1.02		0.3A							2C	39	16	43
1.02 - 1.09		0.18A		0.017F								

[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded