

**Project Name:** BOB  
**Project Code:** BOB      **Site ID:** B517      **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>	19/11/63	<b>Elevation:</b>	125 metres
<b>Map Ref.:</b>	Sheet No. : 9442 1:100000	<b>Rainfall:</b>	864
<b>Northing/Long.:</b>	152.527777777778	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-27.938333333333	<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>	Jw	<b>Substrate Material:</b>	Soil pit, 0.58 m deep, Sandstone

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	107 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Endocalcareous Epipedal Brown Vertosol		<b>Principal Profile Form:</b>	Ug5.37
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Prairie soil
All necessary analytical data are available.			

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

**Vegetation:**

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus tessellaris

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

**Profile Morphology**

A1	0 - 0.09 m	Very dark brown (10YR2/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 6.2 (pH meter); Common, fine (1-2mm) roots; Sharp change to -
B2	0.09 - 0.28 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 6.4 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.28 - 0.41 m	Brown (10YR4/3-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 7.4 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
BC	0.41 - 0.58 m	Dark greyish brown (10YR4/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.2 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
C	0.58 - 0.66 m	Light yellowish brown (2.5Y6/4-Moist); ; Fine sandy clay loam; Massive grade of structure; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.6 (pH meter); Few, fine (1-2mm) roots;

**Morphological Notes**

**Observation Notes**

**Site Notes**

ARATULA

**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				Cmol (+)/kg				%
0 - 0.09	6.2H	0.02B	13.3K	12.6	1.8	0.41	15.4D			
0.09 - 0.28	6.4H	0.02B								
0.28 - 0.41	7.4H	0.03B	26.9K	25	0.34	1.6	7.2D			
0.41 - 0.58	8.2H	0.05B								
0.58 - 0.66	8.6H	0.08B								

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 - 0.09		3.41A	22C	0.045F	0.295B				3C	13	27	48
0.09 - 0.28		1.58A							1C	8	18	66
0.28 - 0.41		0.93A		0.057F	0.095B			1	1C	14	21	59
0.41 - 0.58	0.1C	0.4A							1C	41	25	32
0.58 - 0.66	0.5C			0.126F				1	1C	58	18	18

[illegible]

**Project Name:** BOB  
**Project Code:** BOB      **Site ID:** B517      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**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
19B_NR	Calcium Carbonate (CaCO3) - 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