Project Name: **BOB**
Project Code: **BOB** **Site ID:** **B503** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.D. Hubble
Date Desc.: 22/10/63
Map Ref.: Sheet No. : 9442 1:100000
Northing/Long.: 152.736666666667
Easting/Lat.: -27.7916666666667
Locality:
Elevation: 67 metres
Rainfall: 914
Runoff: Rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Jw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.53 m deep,Siltstone

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 0 %
Pattern Type: Low hills
Relief: 30 metres
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Epipedal Red Vertosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dr2.12
Great Soil Group: Prairie soil

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.09 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Clear change to -
B21	0.09 - 0.18 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Field pH 5.9 (pH meter); Common, fine (1-2mm) roots; Clear change to -
B22	0.18 - 0.41 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Field pH 5.9 (pH meter); CommonGradual change to -
B3	0.41 - 0.53 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Field pH 6.8 (pH meter); FewGradual change to -
C	0.53 - 0.74 m	Brown (7.5YR5/4-Moist); ; Light clay; Massive grade of structure; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Silcrete, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 7.1 (pH meter); Few

Morphological Notes

Observation Notes

53-74M STRONG PALE YELLOW AND RED SPECKLING OF WEATHERED MINERALS AND SOME ROCK FABRIC:

Site Notes

BOONAH

Project Name: BOB
Project Code: BOB **Site ID:** B503 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.09	6H	0.02B								
0.09 - 0.18	5.9H	0.02B								
0.18 - 0.41	5.9H	0.04B								
0.41 - 0.53	6.8H	0.09B								
0.53 - 0.74	7.1H	0.13B								

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 - 0.09		2.71A	22C	0.089F	0.234B		1.30		15C	21	19	38
0.09 - 0.18							1.20					
0.18 - 0.41							1.30					
0.41 - 0.53							1.40					
0.53 - 0.74							1.50					

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.09				0.31C				0.21C	
0.09 - 0.18				0.44C				0.3C	
0.18 - 0.41				0.52C				0.39C	
0.41 - 0.53				0.5C				0.41C	
0.53 - 0.74				0.37C				0.31C	

Project Name: **BOB**
Project Code: **BOB** **Site ID:** **B503** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Laboratory Analyses Completed for this profile

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 recordede
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_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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m3/m3 - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m3/m3 - Volumetric using pressure plate