

Project Name: BOB
Project Code: BOB **Site ID:** B502 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	22/10/63	Elevation:	113 metres
Map Ref.:	Sheet No. : 9442 1:100000	Rainfall:	914
Northing/Long.:	152.709444444444	Runoff:	Rapid
Easting/Lat.:	-27.8011111111111	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Td	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	61 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8.7 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic-Mottled Eutrophic Black Dermosol		Principal Profile Form:	Uf6.42
ASC Confidence:		Great Soil Group:	Prairie soil
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Tall Strata - Tree, , Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Very dark brown (10YR2/2-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Strong grade of structure, 2-5 mm, Polyhedral; Moderately moist; Firm consistence; 0-2%, Quartz, coarse fragments; Field pH 6.4 (pH meter); Clear change to -
B2	0.15 - 0.3 m	Very dark brown (10YR2/2-Moist); , 5YR33; Medium heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Strong grade of structure, 5-10 mm, Polyhedral; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Field pH 6.8 (pH meter); Clear change to -
B3	0.3 - 0.46 m	Very dark brown (10YR2/2-Moist); , 5YR43; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Field pH 6.4 (pH meter); Gradual change to -
C1	0.46 - 0.66 m	Brownish yellow (10YR6/6-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; Field pH 7.6 (pH meter); Gradual change to -
C2	0.66 - 0.84 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Moist; Weak consistence; Field pH 7.9 (pH meter); Gradual change to -
C3	0.84 - 1.12 m	Yellow (10YR7/6-Moist); ; Clayey sand; Massive grade of structure; Moist; Weak consistence; Field pH 8 (pH meter);

Morphological Notes

Observation Notes

CRACKS DO NOT MEET Ug SPECIFICATION:BELOW 46CM INCREASING PINK TO WHITESPLECKLING OF DECOMPOSING MINERALS:ROCK FABRIC EVIDENT:

Site Notes

BOONAH

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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 - 0.15	6.4H	0.02B	14.4K	3.9	0.82	0.26	8.9D			
0.15 - 0.3	6.8H	0.03B								
0.3 - 0.46	6.4H	0.02B	22K	3.6	0.06	0.47	6.9D			
0.46 - 0.66	7.6H	0.02B								
0.66 - 0.84	7.9H	0.02B								
0.84 - 1.12	8H	0.01B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size FS	Analysis	
								GV	CS		Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15		2.28A	454C	0.112F	0.198B		1.40		16C	30	9	38
0.15 - 0.3		1.03A					1.40		10C	18	10	57
0.3 - 0.46		0.56A		0.133F			1.60		17C	25	14	40
0.46 - 0.66		0.24A						0	30C	42	15	14
0.66 - 0.84												
0.84 - 1.12	0.1C			0.14F								

[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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
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