Project Name: **BOB**
Project Code: **BOB** **Site ID:** **B494** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: R. Paton
Date Desc.: 10/04/62
Map Ref.: Sheet No. : 9442 1:100000
Northing/Long.: 152.985
Easting/Lat.: -27.875
Locality:
Elevation: 69 metres
Rainfall: 864
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Jw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.99 m deep,Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: No Data
Elem. Type: No Data
Slope: 0 %
Pattern Type: Rises
Relief: 15 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Magnesic-Natric Red Kurosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr3.41
Great Soil Group: Soloth

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Bothriochloa decipiens

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Sandstone, coarse fragments; Field pH 5.6 (pH meter); Many, fine (1-2mm) roots; Clear change to -
A2	0.04 - 0.15 m	Brown (10YR5/3-Moist); , 5YR56; Sandy clay loam; Massive grade of structure; Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Sandstone, coarse fragments; Field pH 5.8 (pH meter); Common, fine (1-2mm) roots; Clear, Irregular change to -
B2	0.15 - 0.33 m	Red (2.5YR4/6-Moist); , 10YR53; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Wet; Moderately plastic; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Field pH 5.3 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.33 - 0.64 m	Red (2.5YR4/6-Moist); , 10YR62; Heavy clay; Wet; Moderately plastic; Field pH 4.9 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B3	0.64 - 0.99 m	Light yellowish brown (10YR6/4-Moist); , 10YR53; Heavy clay; Wet; Moderately plastic; Field pH 4.4 (pH meter); Gradual change to -
C	0.99 - 1.17 m	; Field pH 4.7 (pH meter);

Morphological Notes

C Mottled YR(7.5YR5/8) & PY(2.5Y7/4) sandy clay

Observation Notes

SUBSOIL TOO WET TO DETERMINE STRUCTURE.

Site Notes

BOONAH

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.04	5.6H	0.01B	1.4K	1.1	0.32	0.06	5.4D			
0.04 - 0.15	5.8H	0.01B	0.72K	1.4	0.14	0.32	3.9D			
0.15 - 0.33	5.3H	0.04B	1.1K	9.8	0.29	2.3	12.2D			
0.33 - 0.64	4.9H	0.09B	0.62K	11.6	0.25	4.1	13.3D			
0.64 - 0.99	4.4H	0.29B	0.19K	15.1	0.32	6.7	14.2D			
0.99 - 1.17	4.7H	0.16B	0.05K	8.9	0.14	9.2	9.2D			

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 - 0.04		1.13A	9C	0.023F	0.11B				34C	37	16	10
0.04 - 0.15								13	38C	31	16	13
0.15 - 0.33								2	20C	18	11	51
0.33 - 0.64				0.015F				0	16C	19	12	53
0.64 - 0.99								0	9C	22	11	57
0.99 - 1.17				0.024F				0	23C	33	16	28

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 - 0.04									
0.04 - 0.15									
0.15 - 0.33									
0.33 - 0.64									
0.64 - 0.99									
0.99 - 1.17									

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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
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_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