Project Name: BOB
Project Code: BOB **Site ID:** B515 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R. Paton
Date Desc.: 08/11/63
Map Ref.: Sheet No. : 9442 1:100000
Northing/Long.: 152.810555555556
Easting/Lat.: -27.9277777777778
Locality:
Elevation: 67 metres
Rainfall: 864
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Jm
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.8 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: Footslope
Slope: 0.87 %
Pattern Type: Pediment
Relief: 76 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Hypernatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.43
Great Soil Group: Solodic 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 - 0.08 m	Brown (7.5YR5/2-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Platy; Dry; Weak consistence; Field pH 5.8 (pH meter); Many, fine (1-2mm) roots; Abrupt change to -
A21	0.08 - 0.3 m	Very pale brown (10YR7/3-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
A22	0.3 - 0.41 m	White (10YR8/1-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Abrupt change to -
B2	0.41 - 0.69 m	Strong brown (7.5YR5/6-Moist); , 10YR63; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.2 (pH meter); Few, fine (1-2mm) roots; Gradual change
B2	0.69 - 1.09 m	Yellowish brown (10YR5/4-Moist); , 2.5Y72; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.6 (pH meter); Gradual change to -
B3	1.09 - 1.37 m	Brownish yellow (10YR6/6-Moist); , 10YR82; , 10YR63; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Field pH 8.1 (pH meter); Gradual change to -
B3	1.37 - 1.83 m	Very pale brown (10YR7/4-Moist); , 10YR54; , 2.5Y82; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Field pH 8.4 (pH meter); Gradual change to -
C	1.83 - 2.28 m	Brownish yellow (10YR6/6-Moist); , 10YR61; , 10YR81; Sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; Field pH 8.7 (pH meter); Gradual change to -
C	2.28 - 2.43 m	Yellowish brown (10YR5/8-Moist); , 10YR81; Sandy clay loam (Light); Massive grade of structure; Moderately moist; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

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0-8CM POROUS GRANULAR STRUCTURE.

Site Notes

WYARALONG

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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 - 0.08	5.8H	0.02B	2.2K	1.1	0.22	0.12	6.2D			
0.08 - 0.3	6H	0.01B								
0.3 - 0.41	7H	0.02B								
0.41 - 0.69	7.2H	0.11B	4.1K	6.4	0.18	6.7	2.4D			
0.69 - 1.09	7.6H	0.17B								
1.09 - 1.37	8.1H	0.16B	2.6K	6.5	0.12	7	0D			
1.37 - 1.83	8.4H	0.15B								
1.83 - 2.28	8.7H	0.11B								
2.28 - 2.43	8.6H	0.11B								

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 - 0.08		1.45A	6C	0.017F	0.126B				39C	26	22	9
0.08 - 0.3												
0.3 - 0.41		0.08A						15	48C	23	18	10
0.41 - 0.69				0.006F				13	36C	13	9	44
0.69 - 1.09												
1.09 - 1.37	0.1C								38C	28	10	25
1.37 - 1.83												
1.83 - 2.28	0.1C											
2.28 - 2.43												

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 - 0.08										
0.08 - 0.3										
0.3 - 0.41										
0.41 - 0.69										
0.69 - 1.09										
1.09 - 1.37										
1.37 - 1.83										
1.83 - 2.28										
2.28 - 2.43										

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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
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 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