Project Name: BOB

Project Code: BOB Site ID: B506 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R. Paton Locality:

 Date Desc.:
 25/10/63
 Elevation:
 67 metres

 Map Ref.:
 Sheet No.: 9342
 1:100000
 Rainfall:
 914

 Northing/Long.:
 152.755277777778
 Runoff:
 Very rapid

Easting/Lat.: -27.821666666667 Drainage: Moderately well drained

<u>Geology</u>

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Jw Substrate Material: Soil pit, 0.81 m deep,Sandstone

Land Form

 Rel/Slope Class:
 No Data
 Pattern Type:
 Hills

 Morph. Type:
 Mid-slope
 Relief:
 No Data

 Elem. Type:
 Hillslope
 Slope Category:
 No Data

 Slope:
 8.7 %
 Aspect:
 No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMagnesic Mottled-Mesonatric Yellow SodosolPrincipal Profile Form:Dr3.41ASC Confidence:Great Soil Group:Soloth

All necessary analytical data are available.

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

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.09 m Brown (10YR4/3-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; Dry; Very weak consistence; Field pH 5.5 (pH meter); Many, fine (1-2mm) roots; Clear change to
A2 0.09 - 0.28 m Very pale brown (10YR7/3-Moist); White (10YR8/2-Dry); ; Sandy loam; Massive grade of

structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Sharp change to -

prio (primeter), many, mie († 2mm) 100to, charp change to

B2 0.28 - 0.38 m Light brown (7.5YR6/4-Moist); , 10R58, 20-50% , 5-15mm, Distinct; , 10YR83, 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry;

Strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.6 (pH

meter); Few, fine (1-2mm) roots; Gradual change to -

B22 0.38 - 0.66 m Red (2.5YR4/6-Moist); , 2.5YR61, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct;

Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Few, fine (1-2mm)

roots; Gradual change to -

B3 0.66 - 0.81 m Yellowish red (5YR5/6-Moist); , 10YR61, 10-20% , 30-mm, Distinct; , 10-20% , 30-mm, Distinct;

Medium clay; Weak grade of structure, 20-50 mm, Polyhedral; Dry; Strong consistence; Field pH

4.9 (pH meter); Few, fine (1-2mm) roots; Gradual change to -

C 0.81 - 1.19 m ;

Morphological Notes

B(7.5YR5/8) & pgY; heavy clay loam;massive moist very firm:

Observation Notes

.81-1.19M IS ALTERED FINELY-BEDDED SANDSTONE AND SHALE:

Site Notes

FLINDERS

Project Name: BOB
Project Code: BOB Site ID: B50
Agency Name: CSIRO Division of Soils (QLD) B506 Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Evo	hangeable	Cations		Exchangeable	CEC		ECEC	_	SP
Depth	рп			nangeable Mg	K	Na	Acidity	CEC		ECEC		31
m		dS/m	ou .	9		Cmol (+					9,	6
0 - 0.09	5.5H	0.03B	2.2K	1.8	0.61	0.04	9.4D					
0.09 - 0.28	6H	0.01B										
0.28 - 0.38	5.6H	0.02B	0.47K	4.8	0.46	1.1	10.2D					
0.38 - 0.66	5.2H	0.04B	0.071/	4.4	0.40	2.5	45.00					
0.66 - 0.81	4.9H	0.11B	0.37K	4.4	0.18	3.5	15.2D					
0.81 - 1.19	4.7H	0.19B	0.24K	7.8	0.15	5.7	14D					
Depth	CaCO3	Organic	Avail.	Total	Total	Total				Size A	-	
	0.4	C	P	P	N	K	Density	G۷	CS	FS	Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.09		2.41A	26C	0.03F	0.19	9B	1.50	1	29C	46	11	10
0.09 - 0.28		0.57A					1.70	1	30C	46	13	8
0.28 - 0.38		0.32A		0.014F			1.50	2	21C	28	10	41
0.38 - 0.66							1.60		16C	30	12	41
0.66 - 0.81									11C	36	14	41
0.81 - 1.19				0.015F				0	2C	44	18	38
Depth	COLE	Gravimetric/Volumetric Water Conten					itents		K sa	ıt I	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/g	g - m3/m3	3			mm/	h	mm/h	
0 - 0.09				0.24C			0	.07C				
0.09 - 0.28				0.2C			0	.04C				
0.28 - 0.38				0.35C			().2C				
0.38 - 0.66				0.37C			0	.23C				
0.66 - 0.81												
0.81 - 1.19												

Project Name: BOB

Project Code: BOB Site ID: B506 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 Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Max.) meg per 100g of soil - Not recorded

15_NR_NG Exch. basic cations (Ng++) - med per 100g of soil - Not recorded 15_NR_NA Exch. basic cations (Ng++) - med per 100g of soil - Not recorded Exch. basic cations (Na++) - med 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
P10_NR_C
Clay (%) - Not recorded
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