Project Name: **BOB**
Project Code: **BOB** **Site ID:** **B518** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: R. Paton
Date Desc.: 22/11/63
Map Ref.: Sheet No. : 9442 1:100000
Northing/Long.: 152.968333333333
Easting/Lat.: -27.975
Locality:
Elevation: 43 metres
Rainfall: 887
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: 0 %
Pattern Type: Terrace (alluvial)
Relief: 12 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous-Endohypersodic Epipedal Grey Vertosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Db1.13
Great Soil Group: Grey clay

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

Vegetation:

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Dark brown (7.5YR3/2-Moist); ; Loam; Moderate grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; Field pH 5.6 (pH meter); Many, fine (1-2mm) roots; Sharp change to -
B2	0.03 - 0.23 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong grade of structure, 5-10 mm, Polyhedral; Coarse, (10 - 20) mm crack; Moderately moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Gradual change to -
B2	0.23 - 0.38 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong grade of structure, 5-10 mm, Polyhedral; Coarse, (10 - 20) mm crack; Moderately moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 7.7 (pH meter); Gradual change to -
B2	0.38 - 0.53 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Coarse, (10 - 20) mm crack; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.53 - 0.76 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Gradual change to -
B2	0.76 - 1.22 m	Brown (10YR4/3-Moist); ; Light clay (Heavy); Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BEAUDESERT

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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 - 0.03	5.6H	0.07B	7.6K	6.6	1.2	0.15	24.9D			
0.03 - 0.23	6.6H	0.03B	13.5K	8.4	0.49	0.73	8.1D			
0.23 - 0.38	7.7H	0.07B								
0.38 - 0.53	8.6H	0.17B	22K	16.5	0.28	2.8	2.4D			
0.53 - 0.76	8.7H	0.33B								
0.76 - 1.22	8.7H	0.29B	17.9K	15.2	0.11	6.1	0D			

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 - 0.03			290C									
0.03 - 0.23		1.18A	36C	0.044F	0.104B				6C	30	16	43
0.23 - 0.38												
0.38 - 0.53	1.7C		103C									
0.53 - 0.76	1.8C											
0.76 - 1.22	0.8C		370C									

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 - 0.03									
0.03 - 0.23									
0.23 - 0.38									
0.38 - 0.53									
0.53 - 0.76									
0.76 - 1.22									

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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 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