

Project Name: WQA
Project Code: WQA **Site ID:** B588 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	90 metres
Map Ref.:	Sheet No. : 6650 1:100000	Rainfall:	203
Northing/Long.:	138.825	Runoff:	Moderately rapid
Easting/Lat.:	-23.9333333333333	Drainage:	Moderately well drained

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czg	Substrate Material:	Auger boring, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Gypsic Pedaric Red Sodosol		Principal Profile Form:	Dr1.12
ASC Confidence:		Great Soil Group:	Desert loam
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Acacia cambagei

Surface Coarse Fragments: 90-100%, coarse gravelly, 20-60mm, , Gravel

Profile Morphology

A1	0 - 0.02 m	Brown (7.5YR5/4-Moist); ; Fine sandy loam; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Sharp
B2	0.02 - 0.1 m	Red (2.5YR4/6-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Gradual change to -
B2	0.1 - 0.2 m	Red (2.5YR4/6-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Gradual change to -
B2	0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Gradual change to -
B3	0.3 - 0.5 m	Reddish brown (5YR5/4-Moist); ; Fine sandy medium clay; Dry; Firm consistence; Common (10 - 20 %), Gypseous, , Crystals; Clear change to -
	0.5 - 0.6 m	;
	0.6 - 0.9 m	; Few (2 - 10 %), Calcareous, , ;

Morphological Notes

White crystalline gypsum with patches of rB soil:

Observation Notes

GYPSUM CONTINUES BELOW 195CM; SURFACE STRONGLY VESICULAR; WHITE GYPSUM WITH REDDISH BROWN PATCHES
BELOW 50CM:

Site Notes

MONTARA

Project Name: WQA
Project Code: WQA Site ID: B588 Observation ID: 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.02	8H	0.026B							
0.02 - 0.1	7H	1.2B	13.6K	5	1.8	8.3	0.08D		
0.1 - 0.2	7.8H	2.3B							
0.2 - 0.3	7.9H	2.3B							
0.3 - 0.5	7.9H	3.6B							
0.5 - 0.6	7.9H	48.3B							
0.6 - 0.9	7.9H	49.7B							

Depth m	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density Mg/m3	Particle Size		Analysis		
	%	%	mg/kg	%	%	%		GV	CS	FS %	Silt	Clay
0 - 0.02	0.02C	0.06E	34B	0.027F	0.015B	0.93B			13C	54	12	21
0.02 - 0.1	0.04C	0.04E	194B	0.05F	0.015B	1.15B			9C	42	13	35
0.1 - 0.2	0.04C	0.06E	19B						10C	45	4	36
0.2 - 0.3	0.13C	0.08E	28B						10C	45	5	35
0.3 - 0.5	0.38C	0.08E	34B	0.027F	0.013B	0.94B			1C	51	4	40
0.5 - 0.6	1C		36B									
0.6 - 0.9	0.42C	0.03E	26B	0.028F	0.014B	0.64B			2C	12	5	23

[illegible]

Project Name: WQA
Project Code: WQA **Site ID:** B588 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
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
17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
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