

Project Name: WQA
Project Code: WQA **Site ID:** B595 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	Completely bare of vegetation:claypan.
Date Desc.:	01/09/69	Elevation:	98 metres
Map Ref.:	Sheet No. : 6749 1:100000	Rainfall:	203
Northing/Long.:	139.466666666667	Runoff:	Rapid
Easting/Lat.:	-24.35	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	Auger boring, 2 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Dunefield
Morph. Type:	No Data	Relief:	15 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Sodic Eutrophic Grey Dermosol		Principal Profile Form:	Dy2.13
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Yellowish red (5YR5/6-Moist); ; Clayey sand; Massive grade of structure; Moderately moist; Very weak consistence;
A1	0.1 - 0.2 m	Yellowish red (5YR5/6-Moist); ; Clayey sand; Massive grade of structure; Moderately moist; Very weak consistence; Gradual change to -
A2	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Moderately moist; Weak consistence;
A2	0.3 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Moderately moist; Weak consistence;
A2	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Moderately moist; Weak consistence; Very few (0 - 2 %), Gypseous, , Crystals;
A2	0.9 - 1.05 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; Very few (0 - 2 %), Gypseous, , Crystals; Clear change
B2	1.05 - 1.2 m	Light brownish grey (2.5Y6/3-Moist); ; Sandy medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
B2	1.2 - 1.5 m	Light brownish grey (2.5Y6/3-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence;
B2	1.5 - 1.8 m	Light brownish grey (2.5Y6/3-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence;

Morphological Notes

Observation Notes

105-180CM:WITH SOME VEINS OF YR/SAND:PROFILE IN DEFLATION SCALD (CLAYPAN) FRINGING DUNE:

Site Notes

BEDOURIE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	8H	1.2B	2.1K	4.1	0.27	2.5	0D		
0.1 - 0.2	8.4H	1B							
0.2 - 0.3	8.8H	0.78B	3.1K	4.7	0.31	4.3	0D		
0.3 - 0.6	8.9H	0.58B							
0.6 - 0.9	8.6H	0.52B							
0.9 - 1.05	8.9H	0.58B							
1.05 - 1.2	9.1H	0.65B	3.9K	9.1	0.58	9.8	0D		
1.2 - 1.5	8.6H	0.74B							
1.5 - 1.8	8H	1.1B							

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
								GV	CS		Silt	Clay
0 - 0.1	0.04C	0.03E	16B	0.01F	0.016B	0.66B			41C	43	0	15
0.1 - 0.2	0.11C											
0.2 - 0.3	0.21C											
0.3 - 0.6	0.1C											
0.6 - 0.9	0.02C											
0.9 - 1.05	0.15C	0.02E	51B	0.022F	0.008B	0.88B			36C	42	0	22
1.05 - 1.2	0.11C	0.03E										
1.2 - 1.5	0.05C	0.03E										
1.5 - 1.8	0.03C	0.03E										
			35B		0.008B				18C	40	0	40
									20C	43	1	36

[illegible]

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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 (CaCO3) - 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 H2SO4 (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
XRD_C_Fd	Feldspar - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction