

Project Name: WQR
Project Code: WQR **Site ID:** B142 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	17/08/51	Elevation:	107 metres
Map Ref.:	Sheet No. : 7258 1:100000	Rainfall:	500
Northing/Long.:	141.532222222222	Runoff:	Moderately rapid
Easting/Lat.:	-19.9180555555556	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	Ridge	Relief:	6 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting, Trampled

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Hypernatric Brown Sodosol		Principal Profile Form:	Dy3.73
ASC Confidence:		Great Soil Group:	Solodized solonetz
All necessary analytical data are available.			

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

Vegetation:

Low Strata - Tussock grass, , . *Species includes - Aristida species
Mid Strata - Shrub, , . *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Grevillea striata, Bassia species, Atalaya

hemiglaucia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Yellowish brown (10YR5/8-Moist); ; Coarse sand; Massive grade of structure; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.1 (pH meter); Gradual change to -
A2	0.15 - 0.76 m	Brownish yellow (10YR6/6-Moist); ; Coarse sand; Single grain grade of structure; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.4 (pH meter); Gradual change to -
A3	0.76 - 1.22 m	Brownish yellow (10YR6/6-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 7.9 (pH meter); Clear change to -
B1	1.22 - 1.45 m	Yellowish brown (10YR5/5-Moist); ; Coarse sandy clay loam; Weak grade of structure, Columnar; Weak grade of structure, Angular blocky; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Clear change to -
B21	1.45 - 1.73 m	Yellowish brown (10YR5/4-Moist); , 7.5YR66; , 2.5Y52; Coarse sandy medium clay; Weak grade of structure, Columnar; Weak grade of structure, Angular blocky; Dry; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.2 (pH meter); Gradual
B22	1.73 - 1.98 m	Yellowish brown (10YR5/4-Moist); , 2.5Y52; , 5YR54; Coarse sandy medium clay; Weak grade of structure, Columnar; Weak grade of structure, Angular blocky; Dry; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

MILLUNGERA

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.15	5.1H	0.01B								
0.15 - 0.76	5.4H	<0.01B				0.45				
0.76 - 1.22	7.9H	0.03B	1.7K	1.1	0.12	0.87	0.62D		4.4E	
1.22 - 1.45	8.7H	0.13B								
1.45 - 1.73	9.2H	0.21B	4.5K	4.6	0.15	4.5			14E	
1.73 - 1.98	8.6H	0.52B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.15		0.19E	11C	0.009F	0.014B				74C	17	2	7
0.15 - 0.76								1	70C	20	2	9
0.76 - 1.22	0.01C			0.005F				3	66C	20	1	13
1.22 - 1.45	0.02C								57C	15	3	26
1.45 - 1.73	0.88C			0.008F				4	51C	13	4	32
1.73 - 1.98	2.96C							9	50C	14	4	22

[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - 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
19B_NR	Calcium Carbonate (CaCO ₃) - 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
6Z	Organic carbon (%) - Not recorded
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