

Project Name: WQR
Project Code: WQR **Site ID:** B137 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	09/08/51	Elevation:	73 metres
Map Ref.:	Sheet No. : 7059 1:100000	Rainfall:	500
Northing/Long.:	140.725	Runoff:	Very slow
Easting/Lat.:	-19.4666666666667	Drainage:	Imperfectly 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:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Brown Vertosol	Principal Profile Form:	Ug5.28

ASC Confidence:

No analytical data are available but confidence is fair.

Great Soil Group: Grey clay

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

Vegetation:

Low Strata - Tussock grass, , Closed or dense. *Species includes - *Astrebla* species
Mid Strata - Shrub, , Isolated plants. *Species includes - None recorded
Tall Strata - Tree, , Isolated plants. *Species includes - *Atalaya hemiglauca*, *Acacia farnesiana*

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.15 m	Greyish brown (2.5Y5/3-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Granular; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; Field pH 7.5 (pH meter); Clear change to -
B2	0.15 - 0.61 m	Greyish brown (2.5Y5/3-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
B2	0.61 - 1.22 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.7 (pH meter); Gradual change to -
B2	1.22 - 1.83 m	Light olive brown (2.5Y5/5-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.6 (pH meter);

Morphological Notes

Observation Notes

SLIGHT SKIN ON SURFACE:0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

CANOBIE

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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	7.5H	0.02B								
0.15 - 0.61	8.8H	0.06B								
0.61 - 1.22	7.7H	21.3B								
1.22 - 1.83	7.6H	1.3B								

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Laboratory Analyses Completed for this profile

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 recorded
9_NR	Available P (mg/kg) - Not recorded