

Project Name: RR
Project Code: RR **Site ID:** B552 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	02/09/66	Elevation:	335 metres
Map Ref.:	Sheet No. : 9143 1:100000	Rainfall:	635
Northing/Long.:	151.216666666667	Runoff:	Slow
Easting/Lat.:	-27.15	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qs	Substrate Material:	Undisturbed soil core, 2 m deep, Unconsolidated material

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	15 metres
Elem. Type:	Fan	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Endocalcareous-Endohypersodic Crusty Grey Vertosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Ug5.4
		Great Soil Group:	Grey clay

Site Disturbance:

Vegetation: Low Strata - Tussock grass, , Sparse. *Species includes - None recorded
 Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus populnea

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.01 m	Dark grey (10YR4/1-Moist); ; Light medium clay; Massive grade of structure; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Sharp change to -
A12	0.01 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moist; Slightly plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
A13	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moist; Moderately plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules;
A13	0.2 - 0.3 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moist; Moderately plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules;
B2	0.3 - 0.41 m	Dark grey (10YR4/1-Moist); ; Heavy clay; , Lenticular; Strong grade of structure, Angular blocky; Moist; Moderately plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
B2	0.41 - 0.61 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; , Lenticular; Strong grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Nodules;
B2	0.61 - 0.91 m	Dark grey (10YR4/1-Moist); ; Heavy clay; , Lenticular; Strong grade of structure, Lenticular; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Nodules; Diffuse change to -
B2	0.91 - 1.22 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Nodules;

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B2	1.22 - 1.52 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; 2-10%, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Nodules;
B2	1.52 - 1.83 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; 0-2%, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Nodules;
B2	1.83 - 2.13 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated; Diffuse change to -
B2	2.13 - 2.44 m	Grey (10YR5/1-Moist); , 7.5YR54, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated;

Morphological Notes

Observation Notes

Site Notes

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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
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
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
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_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