

Project Name: MAR
Project Code: MAR **Site ID:** B312 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	06/06/57	Elevation:	415 metres
Map Ref.:	Sheet No. : 7963 1:100000	Rainfall:	914
Northing/Long.:	145.4675	Runoff:	Moderately rapid
Easting/Lat.:	-17.0202777777778	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:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Eutrophic Red Chromosol		Principal Profile Form:	Dr2.62
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.18 m	Light brown (7.5YR6/4-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Clear change to -
B1	0.33 - 0.41 m	Dark red (2.5YR3/8-Moist); ; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 6.5 (pH meter); Gradual change to -
B21	0.41 - 0.81 m	Dark red (10R3/8-Moist); ; Light clay; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.3 (pH meter); Diffuse change to -
B22	0.86 - 1.24 m	Dark red (10R3/8-Moist); ; Light clay; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Diffuse change to -
B23	1.24 - 1.73 m	Red (10R4/8-Moist); ; Light clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Diffuse change to -
B3	1.73 - 2.34 m	Red (2.5YR4/8-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Very coarse (20 - 60 mm), Nodules; Field pH 6 (pH meter);

Morphological Notes

Observation Notes

BROAD LOW BANK ON UNDULATING PLAIN:

Site Notes

MAREEBA

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[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - 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
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
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
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