

Project Name: MAR
Project Code: MAR **Site ID:** B313 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	06/06/57	Elevation:	412 metres
Map Ref.:	Sheet No. : 7963 1:100000	Rainfall:	914
Northing/Long.:	145.466388888889	Runoff:	Slow
Easting/Lat.:	-17.0161111111111	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, 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
Bleached-Magnesian Chromosolic Redoxic Hydrosol		Principal Profile Form:	Dy3.81
ASC Confidence:		Great Soil Group:	Gleyed podzolic soil
Analytical data are incomplete but reasonable confidence.			

Site Disturbance:

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Mid Strata - Tree, , . *Species includes - Petalostigma pubescens, Erthrophleum chlorostachys
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus polycarpa, Eucalyptus leptophleba

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.09 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.3 (pH meter); Clear change to -
A21	0.09 - 0.2 m	Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); ; Loamy sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.2 (pH meter); Gradual change to -
A22	0.2 - 0.38 m	Light yellowish brown (2.5Y6/4-Moist); ; Sandy loam; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.1 (pH meter); Clear change to -
B1	0.38 - 0.58 m	Light yellowish brown (2.5Y6/4-Moist); , 10YR78; , 2.5YR48; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.3 (pH meter); Gradual change to -
B2	0.61 - 0.97 m	Light yellowish brown (2.5Y6/4-Moist); , 2.5Y71; Sandy medium clay; Massive grade of structure; Dry; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.8 (pH meter); Gradual change to -
B3	0.97 - 1.14 m	Light grey (5Y7/1-Moist); , 2.5YR53; Massive grade of structure; Dry; Rigid consistence; 50-90%, fine gravelly, 2-6mm, Quartz, coarse fragments; Other pans; Field pH 5.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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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				+	(+)/kg			%
0 - 0.09	5.3H	0.01B	0.2K	0.1	0.06	0		2.7J		0.00
0.09 - 0.2	5.2H	0.01B								
0.2 - 0.38	5.1H	0.01B	0.31K	0.34	0.08	0.01		3.5J		0.29
0.38 - 0.58	5.3H	0.01B	0.1K	1.1	0.08	0.01		3.9J		0.26
0.61 - 0.97	5.8H	0.01B	0.05K	1.5	0.08	0.13		3.3J		3.94
0.97 - 1.14	5.8H	0.01B								

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 - 0.09		0.42E	2C	0.006F	0.03B			3	52C	40	4	5
0.09 - 0.2		0.19E						3	41C	48	4	7
0.2 - 0.38				0.011F				4	39C	41	4	16
0.38 - 0.58		0.19E		0.019F				9	40C	29	3	28
		0.16E										
0.61 - 0.97		0.08E	2C	0.005F				46	45C	26	4	26
0.97 - 1.14								59	38C	17	4	42

[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
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
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