

Project Name: MEA
Project Code: MEA **Site ID:** H179 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4.1KM SW of Meander: on a wide flat bench in a series of prominent benches (steep rises between):
Date Desc.:	03/10/58	Elevation:	472 metres
Map Ref.:		Rainfall:	1040
Northing/Long.:	146.594444444445	Runoff:	Moderately rapid
Easting/Lat.:	-41.680555555556	Drainage:	Moderately well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 0.71 m deep, Mudstone

Land Form

Rel/Slope Class:	Rolling mountains >300m 10-32%	Pattern Type:	Mountains
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Bench	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic Dystrophic Brown Dermosol		Principal Profile Form:	Gn3.41
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Acacia species

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.08 m	Organic Layer; Black (5YR2/1-Moist); ; Loam (Sapric); <2 mm, Granular; 2-10%, Gravel, coarse fragments; Abundant Sharp change to -
A1	0.1 - 0.16 m	Dark brown (7.5YR3/2-Moist); ; Silty loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
	0.16 - 0.23 m	Dark brown (7.5YR3/2-Moist); ; Silty clay loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Very weak consistence; 2-10%, Mudstone, coarse fragments; Diffuse change to -
	0.24 - 0.33 m	Dark brown (7.5YR3/2-Moist); ; Silty medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; 20-50%, Mudstone, coarse fragments; Diffuse change to -
	0.33 - 0.48 m	Dark yellowish brown (10YR3/4-Moist); ; Silty clay loam (Heavy); Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; 10-20%, Mudstone, coarse fragments; Diffuse change to -
	0.48 - 0.69 m	Dark yellowish brown (10YR3/4-Moist); ; Silty medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Weak consistence; 20-50%, Mudstone, coarse fragments; Sharp change to -
C	0.69 - 0.71 m	Light grey (5Y7/2-Moist); ; 20-50%, Mudstone, coarse fragments;

Morphological Notes

Observation Notes

69-71CM HARD MUDSTONE:

Site Notes

QUAMBY

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol	(+)/kg		
0 - 0.08	3.8A	0.205A	7H	1.5	1.1	0.08	61.3H		91.7B
							82E		
0.1 - 0.16	4A	0.086A	0.61H	0.42	0.58	0.07	32.5H		39.2B
							37.6E		
0.16 - 0.23	4.2A	0.074A							
0.24 - 0.33	4.3A	0.065A	0.36H	0.25	0.51	0.07	28.6H		39.3B
0.33 - 0.48	4.5A	0.054A					38.1E		
0.48 - 0.69	4.6A	0.054A	0.26H	0.26	0.33	0.07	29.8H		44.5B
0.69 - 0.71	4.6A	0.054A					43.6E		

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette