

Project Name: MEA
Project Code: MEA **Site ID:** H180 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4.1KM south east of Deloraine: pit is 111M from west fence and 76M from south fence of paddock:
Date Desc.:	04/10/58	Elevation:	305 metres
Map Ref.:		Rainfall:	990
Northing/Long.:	146.679166666667	Runoff:	Rapid
Easting/Lat.:	-41.555555555556	Drainage:	Well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Basalt

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Humose-Acidic Mesotrophic Red Ferrosol	Principal Profile Form:	Gn3.11
ASC Confidence:	Great Soil Group:	Krasnozern
All necessary analytical data are available.		

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - Tree, , Very sparse. *Species includes - Acacia species
Tall Strata - Tree, 20.01-35m, . *Species includes - Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A1	0.01 - 0.08 m	Dark reddish brown (2.5YR2/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
	0.08 - 0.16 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Clear change to -
	0.16 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Light clay; Moderate grade of structure, <2 mm, Granular; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
	0.3 - 0.46 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive grade of structure; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
	0.46 - 0.61 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive grade of structure; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
	0.61 - 0.74 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive grade of structure; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
	0.74 - 0.94 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive grade of structure; Weak consistence; 10-20%, cobbly, 60-200mm, subangular, Gravel, coarse fragments; Diffuse change to -
	0.94 - 1.27 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive grade of structure; Weak consistence; 20-50%, subangular, Gravel, coarse fragments; Diffuse change to -

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1.78 - 1.83 m Yellowish red (5YR4/8-Moist); ; Silty clay loam; Very strong consistence; 20-50%, subangular, Gravel, coarse fragments;

1.83 - 1.93 m ;

Morphological Notes

On moderately hard highly decomposed basalt:

Observation Notes

74-127CM CLAY WITH POCKETS OF VERY W'D BA OR SOFT LATERITE:178-183CM ZCL GROUND UP FROM HARD W'D ROCK:

Site Notes

QUAMBY

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[illegible]

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction