

Project Name: MEA
Project Code: MEA **Site ID:** H246 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4.8KM W of Carrick on property "Quamby Plains":98 along paton's trial plots in "gravel pit paddock":
Date Desc.:	16/05/62	Elevation:	155 metres
Map Ref.:		Rainfall:	710
Northing/Long.:	146.956944444444	Runoff:	Moderately rapid
Easting/Lat.:	-41.5263888888889	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 2.5 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Ferric Mesotrophic Brown Chromosol	Mapping Unit:	N/A
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Principal Profile Form:	Dy4.41
		Great Soil Group:	Lateritic podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Mid Strata - Tree, , Isolated plants. *Species includes - Acacia species
 Tall Strata - Tree, , Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, stony, 200-600mm, , Coal

Profile Morphology

Ap	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Weak grade of structure, <2 mm, Granular; Moist; Weak consistence; 0-2%, Charcoal, coarse fragments; CommonDiffuse change to -
Ap	0.1 - 0.15 m	Greyish brown (10YR5/2-Moist); ; Sand (Heavy); Single grain grade of structure; Moist; Weak consistence; 0-2%, Charcoal, coarse fragments; CommonSharp change to -
A2	0.18 - 0.33 m	Pale brown (10YR6/3-Moist); , 7.5YR56; Sand; Single grain grade of structure; Moist; Very weak consistence; 20-50%, cobbly, 60-200mm, stratified, Quartz, coarse fragments; , Ferruginous, Extremely coarse (> 60 mm); , Sharp change to -
A2	0.33 - 0.38 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moist; Very weak consistence; 20-50%, cobbly, 60-200mm, rounded, stratified, Quartz, coarse fragments; , Ferruginous, Extremely coarse (> 60 mm); , Abrupt change to -
B1	0.39 - 0.53 m	Yellowish brown (10YR5/6-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Columnar; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Firm consistence; FewDiffuse change to -
B	0.53 - 0.71 m	Yellowish brown (10YR5/6-Moist); , 2.5Y54; , 2.5YR36; Medium heavy clay; Weak grade of structure, 50-100 mm, Columnar; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Firm consistence; FewDiffuse change to -
	0.71 - 0.86 m	Yellowish brown (10YR5/6-Moist); , 2.5Y54; , 5YR48; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Firm consistence; Diffuse change to -
	1.22 - 1.32 m	Strong brown (7.5YR5/6-Moist); , 5Y62; , 5YR48; Medium heavy clay; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
	1.68 - 1.78 m	Yellowish red (5YR4/8-Moist); , 5Y61; , 7.5YR56; Medium clay; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
	2.39 - 2.46 m	Dark red (2.5YR3/6-Moist); , 5Y71; , 10YR68; Heavy clay; Weak consistence; 0-2%, Gravel, coarse fragments;

Morphological Notes

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Observation Notes

71-86CM SOME SHEAR FACES:38-39CM BLEACHED DISCONTINUOUS A2:>246CM BRITTLE RED FERRUGINOUS
HARDENED CLAY:

Site Notes

WESTBURY

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[illegible]

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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)
17A_HCL	Total element - K(%) - By boiling HCl
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_Gt	Goethite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction