Project Name: MEA
Project Code: MEA **Site ID:** H219 **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":14.6M from boundary fence and 36M from boundary corner:
Date Desc.: 20/07/61
Elevation: 155 metres
Map Ref.:
Rainfall: 710
Northing/Long.: 146.954166666667
Runoff: Very slow
Easting/Lat.: -41.5333333333333
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Pattern Type: Terrace (alluvial)
Morph. Type: Flat
Relief: No Data
Elem. Type: No Data
Slope Category: Very gently sloped
Slope: 1.5 %
Aspect: 225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy5.42
Great Soil Group: Lateritic podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.1 m	Brown (7.5YR4/2-Moist); ; Loamy sand; Massive grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse, Wavy change to -
Ap	0.1 - 0.15 m	Brown (7.5YR4/2-Moist); ; Loamy sand; Massive grade of structure; Weak consistence; Abrupt change to -
A2	0.16 - 0.3 m	Brown (10YR5/3-Moist); ; Sand; Single grain grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
A2	0.3 - 0.48 m	Brown (10YR5/3-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Diffuse change to -
A2	0.48 - 0.61 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Very many (50 - 100 %), Ferruginous, , Concretions; Sharp, Wavy change to -
B	0.66 - 0.79 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
B	0.79 - 0.96 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Diffuse change to -

Morphological Notes

Observation Notes

16-48CM SLIGHT POCKETS OF A1 MATERIAL:ALONG FENCE LINES IS FE+QZ CONGLOMERATE LATERITE:

Site Notes

WESTBURY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.3A	0.027A	1.8H	0.34	0.09	0.04	2.9H 4.6E		6.9B	
0.1 - 0.15	5.2A	0.018A	1.7H	0.2	0.05	0.02	2.3H 4.4E		6.4B	
0.16 - 0.3	5.5A	0.015A								
0.3 - 0.48	6A	0.015A	0.74H	0.04		0.03	0.5H 1.3E		2.2B	
0.48 - 0.61	6.2A	0.012A			0.04					
0.66 - 0.79	5.5A	0.06A	7.6H	2.8		0.1	2.5H 6.8E		17.5B	
0.79 - 0.96	6.5A	0.054A	8.2H	4.2	0.22	0.16	2.8H 7.6E		20.4B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.22D		0.009D	0.066A			1	23B	59	9	5
0.1 - 0.15		1.07D			0.058A			0	25D	57	12	5
0.16 - 0.3		0.38D										
0.3 - 0.48								11	26D	56	11	8
0.48 - 0.61												
0.66 - 0.79								1	8D	20	4	69
0.79 - 0.96								9	6D	16	2	77

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.15										
0.16 - 0.3										
0.3 - 0.48										
0.48 - 0.61										
0.66 - 0.79										
0.79 - 0.96										

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Laboratory Analyses Completed for this profile

15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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