Project Name: MEA

Project Code: MEA Site ID: H198 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls Locality: 4KM west of Carrick property "Quamby Plains":1.46CH

NW of two joining fences:

 Date Desc.:
 14/05/60
 Elevation:
 165 metres

 Map Ref.:
 Rainfall:
 700

 Northing/Long.:
 146.965277777778
 Runoff:
 Slow

Easting/Lat.: -41.5208333333334 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:No DataPattern Type:Terrace (alluvial)Morph. Type:FlatRelief:No DataElem. Type:No DataSlope Category:Very gently slopedSlope:1.5 %Aspect:0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMottled Mesotrophic Brown ChromosolPrincipal Profile Form:Db3.41

ASC Confidence: Great Soil Group: Lateritic podzolic

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

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

Mid Strata - Tree, , . *Species includes - Acacia species

Tall Strata - Tree, 20.01-35m, . *Species includes - None Recorded

Surface Coarse Fragments:

Profile	Morphology	
A1	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Moist; Very weak consistence; Sharp, Wavy change to -
A1A2	0.04 - 0.1 m	Very dark grey (10YR3/1-Moist); , 10YR41; Sand (Heavy); Single grain grade of structure; Wet; Very weak consistence; Diffuse change to -
A2	0.1 - 0.22 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Wet; Very weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
A2A3	0.25 - 0.36 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Wet; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Coal, coarse fragments; Clear change to -
A3	0.36 - 0.46 m	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Single grain grade of structure; Wet; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Coal, coarse fragments; Sharp change to -
В	0.47 - 0.58 m	Dark yellowish brown (10YR4/6-Moist); ; Heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Clear change to -
В	0.58 - 0.74 m	Dark yellowish brown (10YR4/6-Moist); , 2.5YR48; Heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
ВС	0.74 - 0.89 m	Dark yellowish brown (10YR4/6-Moist); , 2.5YR48; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Firm consistence; Diffuse change to -
С	0.89 - 1.04 m	Yellowish brown (10YR5/6-Moist); , 10R36; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -
С	1.04 - 1.17 m	Yellowish brown (10YR5/6-Moist); , 10R36; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
	1.24 - 1.4 m	Brownish yellow (10YR6/8-Moist); , 5Y71; Clayey sand; Weak consistence;

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1.96 - 2.11 m White (5Y8/2-Moist); , 10YR68; , 7.5YR58; Fine sandy medium clay; Weak consistence;

Light grey (5Y7/1-Moist); , 10YR56; , 5YR46; Clayey sand; Weak consistence; 3.3 - 3.4 m

Morphological Notes

Observation Notes

74-89CM 10YR44 COATINGS TO FACES:89-117CM 2.5Y62 COATINGS TO FACES:>89CM NOTE COARSE SAND WITH

Site Notes

QUAMBY

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<u>Laboratory Test Results:</u>													
Depth	рН	1:5 EC		hangeable Mg	Cations K	E Na	xchangeable Acidity	CEC	E	CEC	E	SP	
m		dS/m	ou .	9		Cmol (+)					9	6	
0 - 0.04	5.6A	0.06A	5.4H	0.56	0.28	0.89	10.1E			16.4B			
0.04 - 0.1	5.5A	0.027A	2.1H	0.32	0.12	0.08							
0.1 - 0.22	5.6A	0.006A	0.35H	0.05	0.03	0.03							
0.25 - 0.36	5.6A	0.006A											
0.36 - 0.46	5.3A	0.006A											
0.47 - 0.58	5.5A	0.021A	4.6H	3.4		0.24							
0.58 - 0.74	5.5A	0.068A	4.5H	4.2		0.8							
0.74 - 0.89	6A	0.021A											
0.89 - 1.04	5.8A	0.039A		2.7		0.28							
1.04 - 1.17	5.4A	0.015A				0.20							
1.24 - 1.4	5.3A	0.012A											
1.96 - 2.11	4.9A	0.03A											
3.3 - 3.4	4.6A	0.179A											
3.5 - 3.4	4.0/	0.1757											
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle :	Size Ar	nalysis		
Бории	ouooo	C	P	P	N	K	Density	GV	CS	FS	Silt (
m	%	%	mg/kg	%	%	%	Mg/m3			%		•	
0 - 0.04		3.3D		0.01D	0.15			0	33B	48	0	4	
0.04 - 0.1		1.2D		0.010				0	44B	42	9 9	4 4	
0.04 - 0.1		0.23D		0.004L	0.00			1	44D 43D	42 44	9	4	
0.1 - 0.22		0.23D			0.01	3A		- 1	430	44	9	4	
		0.23D			0.01	E A							
0.36 - 0.46						-		0	11D	11	2	76	
0.47 - 0.58		0.94D			0.07			-			2	_	
0.58 - 0.74		0.76D			0.04	H/A		1	8D	5	2	86	
0.74 - 0.89								•	000	•		40	
0.89 - 1.04								0	38D	9	4	49	
1.04 - 1.17													
1.24 - 1.4													
1.96 - 2.11													
3.3 - 3.4													
Depth	COLE		Grav	/imetric/Vo	Jumetric V	Vater Cont	ante		K sa	+ K	unsat		
Бериі	COLL	Sat.	0.05 Bar		0.5 Bar	1 Bar		Bar	IX Su		unsat		
m				g/	g - m3/m	3			mm/l	h I	mm/h		
0 - 0.04													
0.04 - 0.1													
0.0 1 0.1													
01-022													
0.1 - 0.22 0.25 - 0.36													
0.1 - 0.22 0.25 - 0.36 0.36 - 0.46													

0.36 - 0.46 0.47 - 0.58 0.58 - 0.74 0.74 - 0.89 0.89 - 1.04 1.04 - 1.17 1.24 - 1.4 1.96 - 2.11 3.3 - 3.4

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Laboratory Analyses Completed for this profile

15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 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

Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 15G1_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15J_H

2_LOI Loss on Ignition (%) Air-dry moisture content 2A1 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 HCI

P10_GRAV Gravel (%)

P10_PB_C P10_PB_CS Clay (%) - Plummet balance 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 P10A1_Z Fine sand (%) - Pipette Silt (%) - Pipette

XRD_C_Gt Geothite - X-Ray Diffraction

XRD_C_Is Interstratified clay minerals - X-Ray Diffraction

Kaolin - X-Ray Diffraction XRD_C_Ka Quartz - X-Ray Diffraction XRD_C_Qz