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 DataPattern Type:Terrace (alluvial)Morph. Type:FlatRelief:No DataElem. Type:No DataSlope Category:Gently inclinedSlope:2 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AFerric Mesotrophic Brown ChromosolPrincipal Profile Form:Dy4.41

ASC Confidence: Great Soil Group: Lateritic podzolic

Analytical data are incomplete but reasonable confidence. 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

FIOIIIE	HIOI PHOIOGY	
Ар	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 -
Ар	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 -
В	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

Project Name: MEA
Project Code: MEA Site ID: H2
Agency Name: CSIRO Division of Soils (TAS) Site ID: H246 Observation ID: 1

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

Site Notes

WESTBURY

Site ID: H246 Observation ID: 1

Project Name: MEA
Project Code: MEA Site ID: H2
Agency Name: CSIRO Division of Soils (TAS)

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	E	CEC	E	SP
m		dS/m			Mg K		Na Acidity Cmol (+)/kg				%	, 0
0 - 0.1	5.5A	0.051A	2H	0.41	0.1	0.18	3.4H 5.4E		8	3.1B		
0.1 - 0.15	5.5A	0.03A	1.5H	0.21	0.05	0.06	3.1H 4.6E		6	6.4B		
0.18 - 0.33	6A	0.015A	0.59H	0.22	0.04	0.08	1.4H 2.5E		3.3B			
0.33 - 0.38	6.1A	0.015A										
0.39 - 0.53	5.8A	0.03A	4.7H	6.1	0.18	0.25	5.6H 11.3E	22.5B				
0.53 - 0.71	5.8A	0.027A	3.9H	6.8	0.18	0.37	6.7H 12.7E	24B				
0.71 - 0.86	5.8A	0.024A										
1.22 - 1.32	5.6A	0.03A	2.7H	5.1	0.15	0.49	8.8H 13.3E		21.7B			
1.68 - 1.78	5.3A	0.024A										
2.39 - 2.46	5.1A	0.027A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle S	ize A FS	nalysis Silt C	Nov
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	г э %	SIII C	iay
0 - 0.1		1.77D		0.012	-	22A 0.01		12	22B	59	13	4
0.1 - 0.15 0.18 - 0.33		1.24D 0.39D				75A 0.01 26A 0.01	-	41 43	16D 23D	66 58	13 13	4 6
0.33 - 0.38 0.39 - 0.53		0.75D			0.06	63A 0.32		0	6D	15	3	76
0.53 - 0.71 0.71 - 0.86						0.41	10	0	4D	11	2	83
1.22 - 1.32						0.30)4C	1	4D	12	3	80
1.68 - 1.78 2.39 - 2.46												
Depth	COLE	LE 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/m	3			mm/h		mm/h	

0 - 0.1 0.1 - 0.15 0.18 - 0.33 0.33 - 0.38 0.39 - 0.53 0.53 - 0.71 0.71 - 0.86 1.22 - 1.32 1.68 - 1.78 2.39 - 2.46

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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 15E1_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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
Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
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 Total nitrogen - semimicro Kjeldahl , automated colour

9A_HCL Total element - P(%) - By boiling HCl

P10_GRAV Gravel (%)

P10_PB_C
P10_PB_CS
Clay (%) - Plummet balance
Coarse sand (%) - Plummet balance
P10_PB_FS
P10_PB_Z
Fine sand (%) - Plummet balance
Silt (%) - 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 Geothite - X-Ray Diffraction

XRD_C_ls Interstratified clay minerals - X-Ray Diffraction

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