Project Name: **FOR**
Project Code: **FOR** **Site ID:** **H272** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

Site Information

Desc. By: K.D. Nicholls
Locality: .8KM SE of Sassafras:site T8 of national soil fertility project:97M S of N boundary + 13M E of W fence:
Date Desc.: 19/05/67
Elevation: No Data
Map Ref.:
Rainfall: 0
Northing/Long.: 146.498611111111
Runoff: Moderately rapid
Easting/Lat.: -41.2958333333333
Drainage: Moderately well drained

Geology

ExposureType: Undisturbed soil core
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: No Data
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Ferrosol
ASC Confidence:
No analytical data and little or no knowledge of this soil.
Mapping Unit: N/A
Principal Profile Form: Gn4.12
Great Soil Group: Krasnozem

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.05 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Massive grade of structure; Moderately moist; Very weak consistence; Non-plastic; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
Ap	0.05 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Massive grade of structure; Moderately moist; Very weak consistence; Non-plastic; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
A1	0.1 - 0.15 m	Dark reddish brown (5YR3/3-Moist); Dark reddish brown (5YR3/4-Dry); ; Clay loam; Massive grade of structure; Dry; Strong consistence; Non-plastic; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
AB	0.15 - 0.2 m	Dark reddish brown (5YR3/3-Moist); Dark reddish brown (5YR3/4-Dry); ; Clay loam (Heavy); Weak grade of structure, 2-5 mm, Subangular blocky; Dry; Strong consistence; Non-plastic; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
B1	0.2 - 0.3 m	Dark reddish brown (5YR3/3-Moist); Dark reddish brown (5YR3/4-Dry); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Dry; Firm consistence; Non-plastic; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to -
B1	0.3 - 0.4 m	Yellowish red (5YR3/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Firm consistence; Non-plastic; 2-10%, Substrate material, coarse fragments; Diffuse change to -
	0.4 - 0.5 m	Yellowish red (5YR3/6-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Weak consistence; Non-plastic; 2-10%, Substrate material, coarse fragments; Diffuse change to -
	0.5 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Massive grade of structure; Weak consistence; Non-plastic; 10-20%, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Diffuse change to -
	0.6 - 0.7 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Firm consistence; Non-plastic; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Diffuse change to -

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0.7 - 0.8 m	Yellowish red (5YR4/6-Moist); , N20; Heavy clay; Massive grade of structure; Firm consistence; Non-plastic; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Diffuse change to -
0.8 - 0.9 m	Yellowish red (5YR4/6-Moist); , 7.5YR56; , N20; Heavy clay; Massive grade of structure; Firm consistence; Non-plastic; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Diffuse change to -
0.9 - 1 m	Yellowish red (5YR4/6-Moist); , 7.5YR56; , N20; Silty medium clay; Massive grade of structure; Firm consistence; Non-plastic; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Diffuse change to -
1 - 1.2 m	Yellowish red (5YR4/6-Moist); , 7.5YR56; , N20; Heavy clay; Massive grade of structure; Firm consistence; Non-plastic; Few (2 - 10 %), Ferromanganiferous, , ; Diffuse change to -
1.2 - 1.4 m	Yellowish red (5YR4/6-Moist); , 2.5YR34; , 2.5Y63; Medium clay; Massive grade of structure; Very firm consistence; Slightly plastic; Normal plasticity; 2-10%, Gravel, coarse fragments; Diffuse change to -
1.4 - 1.6 m	Light brownish grey (2.5Y6/3-Moist); , 7.5YR56; , 5YR46; Medium clay; Massive grade of structure; Very firm consistence; Slightly plastic; Normal plasticity; 2-10%, Gravel, coarse fragments; Diffuse change to -
1.6 - 1.8 m	Light brownish grey (2.5Y6/3-Moist); , 7.5YR56; , 5YR46; Light clay; Massive grade of structure; Very firm consistence; Slightly plastic; Normal plasticity; 0-2%, Gravel, coarse fragments; Diffuse change to -
1.8 - 2 m	Light brownish grey (2.5Y6/3-Moist); , 5YR46; , 7.5YR56; Light clay; Massive grade of structure; Very firm consistence; Moderately plastic; Normal plasticity; 0-2%, Gravel, coarse fragments; Diffuse change to -
2.2 - 2.3 m	Grey (5Y6/1-Moist); , 5YR46; , 7.5YR56; Light clay; Massive grade of structure; Very firm consistence; Moderately plastic; Normal plasticity; 0-2%, Gravel, coarse fragments; Diffuse change to -

Morphological Notes

Observation Notes

180-230CM 7.5YR56 IS ANGULAR PIECES OF HARD W`D BASALT:>230CM AUGER STOPPED BY BA ROCK:

Site Notes

MERSEY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.05	5.5A	0.152A								
0.05 - 0.1	5.4A	0.205A								
0.1 - 0.15	5.6A	0.19A								
0.15 - 0.2	5.7A	0.116A								
0.2 - 0.3	5.9A	0.083A								
0.3 - 0.4	6A	0.054A								
0.4 - 0.5	6.1A	0.042A								
0.5 - 0.6	6.6A	0.095A								
0.6 - 0.7	6.5A	0.042A								
0.7 - 0.8	6.5A	0.036A								
0.8 - 0.9	6.2A	0.048A								
0.9 - 1	6.1A	0.048A								
1 - 1.2	5.9A	0.036A								
1.2 - 1.4	5.9A	0.042A								
1.4 - 1.6	5.9A	0.048A								
1.6 - 1.8	5.9A	0.048A								
1.8 - 2	5.8A	0.048A								
2.2 - 2.3	5.9A	0.042A								

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 - 0.05												
0.05 - 0.1												
0.1 - 0.15												
0.15 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												
0.6 - 0.7												
0.7 - 0.8												
0.8 - 0.9												
0.9 - 1												
1 - 1.2												
1.2 - 1.4												
1.4 - 1.6												
1.6 - 1.8												
1.8 - 2												
2.2 - 2.3												

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 - 0.05										
0.05 - 0.1										
0.1 - 0.15										
0.15 - 0.2										
0.2 - 0.3										

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0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1
1 - 1.2
1.2 - 1.4
1.4 - 1.6
1.6 - 1.8
1.8 - 2
2.2 - 2.3

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Laboratory Analyses Completed for this profile

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