

Project Name: TAM
Project Code: TAM **Site ID:** H267 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock **Locality:** 2.4KM NW of Rowella P.O. on property "Blackwood Hills":44M on bearing 157.5degrees from fence (on 18degrees):
Date Desc.: 11/04/64 **Elevation:** 32 metres
Map Ref.: **Rainfall:** 830
Northing/Long.: 146.888888888889 **Runoff:** Slow
Easting/Lat.: -41.170833333333 **Drainage:** Moderately well drained

Geology

ExposureType: Soil pit **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: Upper-slope **Relief:** No Data
Elem. Type: No Data **Slope Category:** No Data
Slope: 4.5 % **Aspect:** 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Mottled Eutrophic Brown Chromosol **Principal Profile Form:** Dr2.12
ASC Confidence: **Great Soil Group:** Non-calcic brown soil
All necessary analytical data are available.

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

Vegetation: Low Strata - Fern, , Isolated clumps. *Species includes - None recorded
Tall Strata - Tree, , Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, , , Basalt

Profile Morphology

A11 0 - 0.05 m Very dark brown (7.5YR2/2-Moist); ; Fine sandy loam; Moderate grade of structure, <2 mm, Granular; Moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A12 0.05 - 0.1 m Very dark brown (7.5YR2/2-Moist); ; Fine sandy loam; Moderate grade of structure, <2 mm, Granular; Moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A13 0.1 - 0.19 m Very dark brown (7.5YR2/2-Moist); ; Fine sandy loam (Heavy); Moderate grade of structure, 2-5 mm, Subangular blocky; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, Basalt, coarse fragments; CommonAbrupt, Irregular change to -
B 0.22 - 0.3 m Brown (7.5YR4/4-Moist); , 5YR46; Heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 50-90%, cobbly, 60-200mm, Basalt, coarse fragments; FewGradual change to -
BC 0.3 - 0.43 m Yellowish red (5YR4/6-Moist); ; Heavy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 50-90%, Gravel, coarse fragments; Diffuse change to -
C 0.43 - 0.63 m ;

Morphological Notes

C Mealy w'd BA @ <90% (GV+stones) and a few pockets of clay

Observation Notes

30-43CM INCREASING MEALY W'D BA GV:22-43CM DARK SURFACES ON AGGREGATES:

Site Notes

QUAMBY

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.05	5.6A	0.259A					21.3E			
0.05 - 0.1	5.6A	0.161A					21.6E			
0.1 - 0.19	5.9A	0.095A								
0.22 - 0.3	6.3A	0.057A	21.2H	10.3	0.59	0.56	14.3E		47B	
0.3 - 0.43	6.5A	0.057A	20.5H	12.3	0.31	0.73	12.5E		46.3B	
0.43 - 0.63	6.9A	0.045A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		6.88D		0.071D	0.543A			<1	4B	42	19	21
0.05 - 0.1		5.4D		0.06D	0.421A			<1	5B	43	19	21
0.1 - 0.19		4.53D			0.298A							
0.22 - 0.3		2.41D		0.063D	0.192A			6	5B	32	16	44
0.3 - 0.43								7	7D	33	14	42
0.43 - 0.63				0.169D								

[illegible]

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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