Project Name: **TYE**
Project Code: **TYE** **Site ID:** **H153** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

Site Information

Desc. By: G.M. Dimmock
Locality: On National Park Rd .4KM SW of intersection with Hyell H`way:Road cutting centre of prominent bend:
Date Desc.: 23/01/57
Elevation: 49 metres
Map Ref.:
Rainfall: 570
Northing/Long.: 146.9333333
Runoff: Rapid
Easting/Lat.: -42.695
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Sand

Land Form

Rel/Slope Class: Rolling rises 9-30m 10-32%
Pattern Type: Dunefield
Morph. Type: Hillock
Relief: No Data
Elem. Type: Cutface
Slope Category: Gently inclined
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Black Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Db1.12
Great Soil Group: Non-calcic brown soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.09 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; Moderate grade of structure, 2-5 mm, Granular; Dry; Weak consistence; AbundantDiffuse change to -
	0.09 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; Weak grade of structure, 5-10 mm, Granular; Strong consistence; Sharp, Irregular change to -
B	0.15 - 0.25 m	Very dark brown (10YR2/2-Moist); , 10YR34; Fine sandy medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very strong consistence;
	0.25 - 0.33 m	Very dark brown (10YR2/2-Moist); , 10YR34; Fine sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Strong consistence;
	0.33 - 0.38 m	Dark yellowish brown (10YR3/4-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence;
	0.38 - 0.61 m	Light olive brown (2.5Y5/4-Moist); ; Clayey sand; Weak grade of structure, 50-100 mm, Prismatic; Very weak consistence;
	0.61 - 0.84 m	Light olive brown (2.5Y5/4-Moist); ; Sand; Weak grade of structure, 50-100 mm, Prismatic; Very weak consistence;
	0.84 - 1.07 m	Light olive brown (2.5Y5/4-Moist); ; Sand; Massive grade of structure; Very weak consistence;
	1.37 - 1.52 m	Light olive brown (2.5Y5/4-Moist); ; Clayey sand; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), , , ; Common (10 - 20 %), Calcareous, , Veins;
	2.34 - 2.49 m	Light olive brown (2.5Y5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments; Common (10 - 20 %), Calcareous, , Veins;

Morphological Notes

Observation Notes

0-25CM WORM ACTIVITY:>249CM SC GRADING TO CLAY WITH <30% <20MM CARBONATE CONC AND <30% <60MM ROUNDED DOLERITE GV:

Site Notes

MONMOUTH

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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 - 0.09	6.6A	0.063A	9.7H	5.6	0.27	0.24	2H		21.1B	
0.09 - 0.15	6.6A	0.03A	8.9H	6.6	0.1	0.12	5.3E 1.9H		20.7B	
0.15 - 0.25	7A	0.024A	13.1H	11.7	0.1	0.24	5E 4.7E		29.8B	
0.25 - 0.33	7.1A	0.018A								
0.33 - 0.38	7.3A	0.015A	8.4H	9.9	0.04	0.22	2E		20.6B	
0.38 - 0.61	7.3A	0.015A								
0.61 - 0.84	7.7A	0.018A								
0.84 - 1.07	8.5A	0.018A	5.2H	7.9	0.1	0.16			13.4B	
1.37 - 1.52	9.3A	0.11A								
2.34 - 2.49	9.4A	0.176A								

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 - 0.09		2.4D		0.026D	0.204A			0	2B	65	12	18
0.09 - 0.15		1.5D		0.016D	0.124A			0	1D	66	11	22
0.15 - 0.25		1.1D			0.101A			0	<1D	61	<1	39
0.25 - 0.33		0.59D			0.06A							
0.33 - 0.38		0.38D			0.036A			0	<1D	78	3	20
0.38 - 0.61												
0.61 - 0.84												
0.84 - 1.07								0	12B	71	4	13
1.37 - 1.52	2A											
2.34 - 2.49	2A											

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 - 0.09									
0.09 - 0.15									
0.15 - 0.25									
0.25 - 0.33									
0.33 - 0.38									
0.38 - 0.61									
0.61 - 0.84									
0.84 - 1.07									
1.37 - 1.52									
2.34 - 2.49									

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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
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)
19A1	Carbonates - rapid titration
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