Project Name: TYE
Project Code: TYE **Site ID:** H215 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: 2.7KM W of Gretna on property "Clarendon":4.8M from Wilson boundary fence + 9.1M from Haffenden/Wilson boundary:
Date Desc.: 23/05/61
Elevation: 91 metres
Map Ref.:
Rainfall: 450
Northing/Long.: 146.902777777778
Runoff: Moderately rapid
Easting/Lat.: -42.6736111111111
Drainage: Very poorly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: B1b
Substrate Material: Soil pit, 0.32 m deep,Basalt

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Pattern Type: Plateau
Morph. Type: No Data
Relief: No Data
Elem. Type: No Data
Slope Category: Gently inclined
Slope: 3.5 %
Aspect: 45 degrees

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Epipedal Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.12
Great Soil Group: Black earth

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

Vegetation:

Surface Coarse Fragments: 20-50%, bouldery, 600mm-2m, , Basalt

Profile Morphology

A	0 - 0.08 m	Black (10YR2/1-Moist); ; Clay loam (Heavy); Moderate grade of structure, <2 mm, Granular; Extremely coarse, (50 - 100) mm crack; Moist; Very weak consistence; 0-2%, cobbly, 60-200mm, Basalt, coarse fragments; Many, fine (1-2mm) roots; Clear change to -
B	0.08 - 0.19 m	Black (10YR2/1-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Granular; Coarse, (10 - 20) mm crack; Moist; Weak consistence; CommonClear change to -
BC	0.19 - 0.32 m	Black (10YR2/1-Moist); ; Heavy clay; Weak grade of structure, 100-200 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, angular, Charcoal, coarse fragments; FewAbrupt, Irregular change to -

Morphological Notes

Observation Notes

8-19CM ODD EARTHWORMS:

Site Notes

ELLENDALE

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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 - 0.08	6.5A	0.071C	24.1H	15.2	0.84	1	8.3H 14.7E		55.8B	
0.08 - 0.19	6.6A	0.08C	28.8H	19.8	0.55	1.3	5.3H 11.4E		61.9B	
0.19 - 0.32	7.1A	0.077A	32H	25.3	0.22	1.9	8.6E		68B	

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 - 0.08		5.27D		0.036D	0.405A			0	4B	29	16	41
0.08 - 0.19		3.98D		0.028D	0.285A			0	3B	25	16	49
0.19 - 0.32		2.94D		0.021D	0.198A			0	7D	21	14	54

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 - 0.08										
0.08 - 0.19										
0.19 - 0.32										

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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)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
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