

Project Name: TYE
Project Code: TYE **Site ID:** H227 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	1.2KM NE of Hamilton on property "Uralla":
Date Desc.:	13/09/61	Elevation:	140 metres
Map Ref.:		Rainfall:	510
Northing/Long.:	146.845833333333	Runoff:	Rapid
Easting/Lat.:	-42.5458333333333	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Bms	Substrate Material:	Soil pit, 0.89 m deep, Sandstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	17.6 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion: Severe (gully)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Eutrophic Brown Chromosol	Principal Profile Form:	Dy3.23
ASC Confidence:	Great Soil Group:	Solodic soil
All necessary analytical data are available.		

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - Danthonia species
Tall Strata - Tree, , . *Species includes - Eucalyptus ovata, Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Sandy loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; ManyGradual change to -
A1A2	0.1 - 0.2 m	Dark brown (10YR3/3-Moist); ; Sandy loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; CommonDiffuse change to -
A2	0.2 - 0.25 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; FewClear, Irregular change to -
A2B	0.25 - 0.3 m	; Sandy loam; 2-10%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; Diffuse change to -
B21	0.3 - 0.44 m	Dark yellowish brown (10YR4/4-Moist); , 2.5Y53; , 10YR32; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; FewClear change to -
B22	0.44 - 0.6 m	Greyish brown (2.5Y5/3-Moist); , 2.5Y42; , 10YR44; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 2-10%, angular platy, Sandstone, coarse fragments; FewGradual change to -
	0.6 - 0.76 m	Yellowish brown (10YR5/4-Moist); , 2.5Y53; , 10YR42; Sandy medium clay; Massive grade of structure; Very strong consistence; 10-20%, medium gravelly, 6-20mm, angular platy, Sandstone, coarse fragments; Gradual change to -
	0.81 - 0.89 m	Greyish brown (2.5Y5/3-Moist); , 5YR48; Sandy medium clay; Massive grade of structure; Very strong consistence; 50-90%, angular platy, Sandstone, coarse fragments; Abrupt, Irregular change to -

Morphological Notes

Observation Notes

81-89CM UPPER PART OF W'D SA IS HIGHLY FERRUGINOUS:30-60CM 10YR32 SURFACE STAINING:PM MIX OF MICACEOUS/SILICEOUS SA:

Site Notes

ELLENDALE

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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 - 0.1										
0.1 - 0.2										
0.2 - 0.25										
0.25 - 0.3										
0.3 - 0.44										
0.44 - 0.6										
0.6 - 0.76										
0.81 - 0.89										

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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
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
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