

Project Name: TYE
Project Code: TYE **Site ID:** H240 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	Small borrow pit on N side of Dobson H'way: 1.1KM E of sharp bend at Lady Barron Ck crossing:
Date Desc.:	20/12/61	Elevation:	823 metres
Map Ref.:		Rainfall:	1700
Northing/Long.:	146.645	Runoff:	Moderately rapid
Easting/Lat.:	-42.68333333	Drainage:	Imperfectly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 1.8 m deep, Dolerite

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): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Petroferric Orthic Tenosol	Principal Profile Form:	Um6.34
ASC Confidence:	Great Soil Group:	Brown podzolic soil
All necessary analytical data are available.		

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - Tree, , Closed or dense. *Species includes - None recorded
 Tall Strata - Tree, , . *Species includes - Eucalyptus delegatensis

Surface Coarse Fragments: 10-20%, bouldery, 600mm-2m, ,

Profile Morphology

O1	0 - 0.01 m	Organic Layer; Black (7.5YR2/1-Moist); ; Loam (Sapric); Moderate grade of structure, <2 mm, Granular; Wet; Loose consistence; 2-10%, cobbly, 60-200mm, Dolerite, coarse fragments; Diffuse change to -
A1	0.01 - 0.08 m	Black (7.5YR2/1-Moist); ; Loam (Sapric); Moderate grade of structure, <2 mm, Granular; Wet; Very weak consistence; 50-90%, cobbly, 60-200mm, Dolerite, coarse fragments; Abundant, coarse (>5mm) roots; Diffuse change to -
	0.08 - 0.15 m	Strong brown (7.5YR5/6-Moist); ; 7.5YR21; Loam (Heavy); Moderate grade of structure, <2 mm, Granular; Weak consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Abundant
	0.15 - 0.23 m	Strong brown (7.5YR5/6-Moist); ; Loam (Heavy); Moderate grade of structure, <2 mm, Granular; Very weak consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Common
	0.23 - 0.33 m	Strong brown (7.5YR5/6-Moist); ; Clay loam; Moderate grade of structure, <2 mm, Granular; Very weak consistence; 50-90%, cobbly, 60-200mm, Gravel, coarse fragments; Common
	0.33 - 0.43 m	Strong brown (7.5YR5/6-Moist); ; Clay loam; Moderate grade of structure, <2 mm, Granular; Very weak consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Common
	0.43 - 0.56 m	Strong brown (7.5YR5/8-Moist); ; Loam (Heavy); Moderate grade of structure, <2 mm, Granular; Very weak consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Few
	0.56 - 0.76 m	Yellowish brown (10YR5/8-Moist); ; 7.5YR56; Loam (Heavy); Moderate grade of structure, <2 mm, Granular; Very weak consistence; 50-90%, cobbly, 60-200mm, Gravel, coarse fragments; Few Clear change to -
	0.79 - 0.86 m	Strong brown (7.5YR5/6-Moist); ; 2.5YR48; Loam (Heavy); Massive grade of structure; Weak consistence; 50-90%, cobbly, 60-200mm, Gravel, coarse fragments; Ortstein, Strongly cemented, Continuous, Massive; Few
	0.86 - 1.07 m	Strong brown (7.5YR5/6-Moist); ; 2.5YR48; ; N20; Loam; Massive grade of structure; Weak consistence; 50-90%, cobbly, 60-200mm, Gravel, coarse fragments; Ortstein, Strongly cemented, Continuous, Massive; Few Gradual change to -

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- 1.07 - 1.27 m Dark yellowish brown (10YR4/6-Moist); , 7.5YR44; Coarse sandy loam; Massive grade of structure; Weak consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Ortstein, Moderately cemented, Continuous, Massive; FewClear change to -
- 1.27 - 1.37 m Yellowish brown (10YR5/6-Moist); , 10YR44; Coarse sandy loam; Massive grade of structure; Very weak consistence; 50-90%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Ortstein, Weakly cemented, Continuous, Massive; FewGradual change to -
- 1.37 - 1.52 m Dark yellowish brown (10YR4/6-Moist); , 10YR56; , 10YR21; 90-100%, Gravel, coarse fragments; FewClear change to -
- 1.52 - 1.65 m Yellowish brown (10YR5/4-Moist); , 10YR46; , 10YR21; 20-50%, Gravel, coarse fragments; FewGradual change to -
- 1.65 - 1.83 m ;

Morphological Notes

W'd DR stones @ much BL FE/MN faces+>60% <100MM DR fragment

Observation Notes

0-30CM CONCENTRATION OF BOULDERS 300MM-1500MM:137-165CM W'D DR STONES WITH MUCH BLACK FE/MN COATINGS:

Site Notes

ELLENDALE

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[illegible]

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0.56 - 0.76
0.79 - 0.86
0.86 - 1.07
1.07 - 1.27
1.27 - 1.37
1.37 - 1.52
1.52 - 1.65
1.65 - 1.83

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Laboratory Analyses Completed for this profile

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 (%)
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