TYE Project Name:

Project Code: Site ID: H240 Observation ID: 1 TYE

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 Rainfall:

Map Ref.: Northing/Long.: 1700 146.645 Runoff:

Moderately rapid Easting/Lat.: -42.68333333 Drainage: Imperfectly drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit 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 No Data Morph. Type: No Data Relief: Slope Category: Elem. Type: No Data No Data Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A Um6.34 Basic Petroferric Orthic Tenosol **Principal Profile Form:**

ASC Confidence: Great Soil Group: Brown podzolic soil

All necessary analytical data are available.

<u>Site Disturbance:</u> 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, ,

<u>Profile</u>	<u>Morphology</u>	
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; FewClear 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; FewGradual change to -

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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, 1.07 - 1.27 m

Moderately cemented, Continuous, Massive; FewClear change to

Yellowish brown (10YR5/6-Moist); , 10YR44; Coarse sandy loam; Massive grade of structure; 1.27 - 1.37 m

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

Observation ID: 1

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Laboratory	rest Re	esuits:										
Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	ı	ECEC	E	SP
m	dS/m		Ca Mg K		K	Na Acidity Cmol (+)/kg						%
0 - 0.01	4.4A	0.402A	22.1H	8.5	1.9	0.62	66H			99.1B		
0.01 - 0.08				2.3	0.84	0.35	26.2H 38.7E			46.4B		
0.08 - 0.15	4.9A	0.101A										
0.15 - 0.23	5.1A	0.068A		4.4	0.05	0.00	44.411			07.00		
0.23 - 0.33	5.6A	0.054A		1.1	0.35	0.32	11.1H 23.2E			27.2B		
0.33 - 0.43	5.8A 5.9A	0.048A		0.05	0.17	0.44	10.5			32.2B		
0.43 - 0.56	5.9A	0.048A	2.111	0.95	0.17	0.44	12.5H 28.5E			32.ZD		
0.56 - 0.76	5.8A	0.042A										
0.79 - 0.86	5.7A	0.024A										
0.86 - 1.07	5.8A	0.021A		0.16	0.13	0.27	6.7H 17E			18.8B		
1.07 - 1.27	6.1A	0.024A										
1.27 - 1.37	6.2A 6.3A	0.024A										
1.37 - 1.52 1.52 - 1.65	6.3A 6.2A	0.027A 0.03A										
1.65 - 1.83	6.4A	0.03A 0.021A	7.5H	2	0.49	1.1	5.6H			24B		
							12.9E					
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size A	Analysis	
		c	Р	Р	N	K	Density	GV	CS	FS	Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.01		41.1D		0.0391	D 0.6	15Δ		23	2B	8	11	12
0.01 - 0.08		13.5D		0.0231				44	12B	31	15	20
0.08 - 0.15		5.84D			0.1					•		
0.15 - 0.23		4.2D			0.09	91A						
0.23 - 0.33		3.19D			0.08			55	15B	30	17	27
0.33 - 0.43		2.69D			0.0	9A		25	200	22	24	20
0.43 - 0.56 0.56 - 0.76								25	20D	33	21	20
0.79 - 0.86												
0.86 - 1.07								47	23B	35	17	18
1.07 - 1.27												
1.27 - 1.37												
1.37 - 1.52												
1.52 - 1.65 1.65 - 1.83								38	37B	30	14	13
Depth	COLE		Gravimetric/Volumetric Water Contents						K sa	ıt	K unsat	
		Sat.	0.05 Bar	0.1 Bar 0.5 Bar		1 Bar 5 Bar		Bar		L	4	
m				g/	/g - m3/m	ა			mm/	n	mm/h	
0 - 0.01												
0.01 - 0.08 0.08 - 0.15												
0.15 - 0.23												

^{0.15 - 0.23} 0.23 - 0.33 0.33 - 0.43 0.43 - 0.56

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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 (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 15E1_K 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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

Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B 15G_C_H1 Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15G1_H 15J_H

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 HCI

P10_GRAV Gravel (%)

Clay (%) - Plummet balance P10_PB_C 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 Fine sand (%) - Pipette
Silt (%) - Pipette

P10A1_FS P10A1_Z