FLI **Project Name:**

Project Code: FLI Site ID: H61 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock Locality: 50m W of main ed. at a point 725m S of Killiecrankie

t`off:

30 metres Date Desc.: 18/04/53 Elevation: Map Ref.: Northing/Long.: Rainfall: Sheet No.: 8418 1:100000 710 147.883333333333 Runoff: Slow

Easting/Lat.: -39.866666666667 Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Pediment Morph. Type: Relief: No Data Lower-slope Gently inclined Elem. Type: Slope Category: No Data Aspect: No Data Slope:

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Uc4.33 Silpanic Kurosolic Redoxic Hydrosol **Principal Profile Form: ASC Confidence: Great Soil Group:** Humus podzol

No analytical data are available but confidence is fair. **<u>Site Disturbance:</u>** No effective disturbance. Natural

Vegetation: Low Strata - Sedge, 0.26-0.5m, Sparse. *Species includes - None recorded

Mid Strata - , , . *Species includes - Unknown species, Unknown species

Tall Strata - Heath shrub, 1.01-3m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile	Morphology
A1	0 - 0.1 m

I TOTTIC	MOIPHOIOGY	
A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sandy loam (Fibric); Massive grade of structure; Moist; Firm consistence; Abundant
A1	0.1 - 0.22 m	Very dark grey (10YR3/1-Moist); ; Sandy loam (Light); Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Sand, coarse fragments; AbundantDiffuse change to
A2	0.27 - 0.36 m	Greyish brown (10YR5/2-Moist); , 10YR62; Sand; Single grain grade of structure; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; ManyDiffuse change to -
A2	0.36 - 0.41 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many
	0.41 - 0.48 m	White (10YR8/1-Moist); , 10YR72; Clayey sand; Massive grade of structure; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Duripan, Moderately cemented, Massive; CommonDiffuse change to -
B1	0.48 - 0.53 m	Very dark greyish brown (10YR3/2-Moist); , 10YR52; Clayey sand; Massive grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Duripan, Strongly cemented; CommonDiffuse change to -
	0.58 - 0.72 m	Greyish brown (10YR5/2-Moist); , 10YR56; Sandy clay loam; Massive grade of structure; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
	0.72 - 0.84 m	Brownish yellow (10YR6/6-Moist); , 10YR62; Heavy clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few
	1.07 - 1.22 m	Light grey (5Y7/2-Moist); , 10YR66; Heavy clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Gravel, coarse fragments;
	1.83 - 1.98 m	Light grey (5Y7/2-Moist); , 10YR56; Sandy clay loam; Very weak consistence; 20-50%, fine gravelly, 2-6mm, Gravel, coarse fragments;
		graveny, z-onim, Graver, coarse fragments;

Morphological Notes

Observation Notes

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72-84CM THE YELLOW MOTTLE IS CLAY (SANDY) AND THE GREY MOTTLE IS SCL:KILLIECRANKIE SERIES:

Site Notes

KILLIECRANKIE

Project Name: FLI
Project Code: FLI Site ID: H6
Agency Name: CSIRO Division of Soils (TAS) Site ID: H61 Observation ID: 1

Laboratory	1621 16	suits.										
Depth	рН	1:5 EC		angeable g	Cations K	Na	xchangeable Acidity	CEC	E	ECEC		ESP
m		dS/m				Cmol (+)	/kg					%
0 - 0.1	4.3A		2.7H	3	0.27	0.79	20.4H 26.8E		3	33.6B		
0.1 - 0.22	4.3A						_0.0_	9.60	;			
0.27 - 0.36	4.6A											
0.36 - 0.41	4.9A							1C				
0.41 - 0.48	5.3A							1.7C				
0.48 - 0.53	5.1A		0.11H	0.5	0.03	0.24	3.5H 4.8E			5.7B		
0.58 - 0.72	5A											
0.72 - 0.84	5A											
1.07 - 1.22	4.8A		0.2H	1.08	0.08	0.38	4.4H 6E			7.7B		
1.83 - 1.98	4.9A											
Depth	CaCO3	Organic	Avail. P	Total P	Total	Total	Bulk				Analysi	
m	%	C %	mg/kg	%	N %	К %	Density Mg/m3	GV	cs	FS %	SIII	Clay
0 - 0.1 0.1 - 0.22 0.27 - 0.36		6.09D 3.31D 0.84D		0.001E 0.001E		1A		0	28B	52	5	7
0.36 - 0.41 0.41 - 0.48		0.6D 0.19D			0.02			8 10	46B 38B	46 39		3 8
0.48 - 0.53 0.58 - 0.72		0.49D		0.001)			9	37B	40		11
0.72 - 0.84 1.07 - 1.22								18	41A	15	7	38
1.83 - 1.98												
Depth COLE Sat.				Gravimetric/Volumetric Water Contents 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar				K s	K sa	t	K unsa	t
m		Jai.	0.03 Bai		g - m3/m3		3 Bai 13 i	Dai	mm/l	1	mm/h	
0 - 0.1 0.1 - 0.22 0.27 - 0.36 0.36 - 0.41 0.41 - 0.48 0.48 - 0.53 0.58 - 0.72 0.72 - 0.84 1.07 - 1.22 1.83 - 1.98												

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Laboratory Analyses Completed for this profile

15D1_CEC CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 15E1_CA 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 Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA

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

2_LOI Loss on Ignition (%) 2A1 Air-dry moisture content 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_CF_C Clay (%) - Coventry and Fett pipette method P10_CF_CS Coarse sand (%) - Coventry and Fett pipette method P10_CF_FS Fine sand (%) - Coventry and Fett pipette method

Silt (%) - Coventry and Fett pipette method Gravel (%) P10_CF_Z

P10_GRAV Clay (%) - Pipette P10A1_C

P10A1_CS P10A1_FS Coarse sand (%) - Pipette Fine sand (%) - Pipette P10A1_Z Silt (%) - Pipette