

Project Name: FLI
Project Code: FLI **Site ID:** H60 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	1.6km S of Killiecrankie t'off:
Date Desc.:	19/04/53	Elevation:	91 metres
Map Ref.:	Sheet No. : 8418 1:100000	Rainfall:	710
Northing/Long.:	147.866666666667	Runoff:	Rapid
Easting/Lat.:	-39.866666666667	Drainage:	Very poorly drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Silpanic Bleached-Leptic Tenosol	Principal Profile Form:	Dg3.81
ASC Confidence:	Great Soil Group:	Gleyed podzolic soil

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, <0.25m, Sparse. *Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, angular, Quartz

Profile Morphology

A1/A2	0 - 0.04 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; CommonDiffuse change to -
A2	0.04 - 0.15 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moist; Very weak consistence; 50-90%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; CommonDiffuse change to -
A2	0.15 - 0.3 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 50-90%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; FewDiffuse change to -
A2	0.3 - 0.51 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 50-90%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Sharp change to -
	0.51 - 0.79 m	White (10YR8/1-Moist); ; Clayey sand; Massive grade of structure; Fine, (0 - 5) mm crack; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Duripan, Strongly cemented, Massive; Few

Morphological Notes

Observation Notes

COARSE FRACTION IS OF A GRITTY NATURE:BOYES SERIES:

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Na	Acidity			%
						Cmol	(+)/kg			
0 - 0.04	4.7A		1H	0.6	0.14	0.05	4.8H 6.9E		8.7B	
0.04 - 0.15	4.6A							4C		
0.15 - 0.3	4.6A		0.11H							
0.3 - 0.51	4.8A						2E			
0.51 - 0.79	4.4A			0.3	0.04	0.03	1H 1.65E		1.12B	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04		1.94D		0.001D	0.064A			32	52B	35	6	3
0.04 - 0.15		0.92D			0.031A			43	62B	30	4	3
0.15 - 0.3		0.38D			0.013A							
0.3 - 0.51												
0.51 - 0.79				0.002D				19	45B	26	17	13

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette