Project Name: FLI
Project Code: FLI **Site ID:** H104 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: Near site 467:1.5ML south south west of Mt Killie Crankie:
Date Desc.: 26/03/54
Elevation: 128 metres
Map Ref.: Sheet No. : 8418 1:100000
Rainfall: 711
Northing/Long.: 147.866666666667
Runoff: Moderately rapid
Easting/Lat.: -39.8333333333333
Drainage: Moderately well drained

Geology

ExposureType: No Data
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Limestone

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Pattern Type: Dunefield
Morph. Type: Simple-slope
Relief: No Data
Elem. Type: Dune
Slope Category: Gently inclined
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Kandosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr2.53
Great Soil Group: Terra rossa soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Dark reddish brown (2.5YR3/3-Moist); ; Sandy loam; Moderately moist; Weak consistence; ManyDiffuse change to -
AB	0.05 - 0.1 m	Dark reddish brown (2.5YR3/3-Moist); ; Sandy loam; Single grain grade of structure; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Charcoal, coarse fragments; ManyDiffuse change to -
B	0.13 - 0.23 m	Dark red (2.5YR3/6-Moist); , 5YR58, 2-10% ; , 2-10% ; Sandy clay loam; Single grain grade of structure; Moderately moist; Very weak consistence; 2-10%, Charcoal, coarse fragments; CommonDiffuse change to -
B	0.23 - 0.38 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Massive grade of structure; Moderately moist; Strong consistence; 0-2%, rounded, Quartz, coarse fragments; Few
B	0.38 - 0.53 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Massive grade of structure; Moderately moist; Strong consistence; Sharp change to -
BC	0.66 - 0.76 m	Yellowish red (5YR5/8-Moist); ; Sandy medium clay; Massive grade of structure; Moderately moist; Strong consistence; 20-50%, coarse gravelly, 20-60mm, stratified, Limestone, coarse fragments;

Morphological Notes

Observation Notes

66-76CM LIMESTONE OCCURRING IN VIENS AND SMALLER LUMPS <50MM:

Site Notes

LIAPOTA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6A		14.5H	4.4	0.44	0.03	7.4H 12.5E		32B	
0.05 - 0.1	6.4A							13C		
0.13 - 0.23	6.9A		8.1H	1.5	0.22	0.22	1H 3.6E		14B	
0.23 - 0.38	6A							13C		
0.38 - 0.53	6.7A		11H	2.3	0.32	0.32	1.3H 5.1E		19.5B	
0.66 - 0.76	8.7A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt	Clay
										%		
0 - 0.05		4.2D		0.058D	0.412A			0	27B	46	4	15
0.05 - 0.1		1.7D		0.027D	0.126A							
0.13 - 0.23		0.7D		0.028D	0.058A			0	28D	51	2	18
0.23 - 0.38		0.4D										
0.38 - 0.53		0.4D		0.048D				0	22D	41	0	39
0.66 - 0.76	11A			0.065D								

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 - 0.05									
0.05 - 0.1									
0.13 - 0.23									
0.23 - 0.38									
0.38 - 0.53									
0.66 - 0.76									

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
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)
19A1	Carbonates - rapid titration
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 (%)
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