Project Name: **FLI**
Project Code: **FLI** **Site ID:** **H73** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

Site Information

Desc. By:	C.G. Stephens	**Locality:**	2.4km NW of Ranga
Date Desc.:	25/01/54	**Elevation:**	65 metres
Map Ref.:	Sheet No. : 8517 1:100000	**Rainfall:**	820
Northing/Long.:	148.066666666667	**Runoff:**	Rapid
Easting/Lat.:	-40.15	**Drainage:**	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	**Pattern Type:**	Hills
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Subnatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy5.61
Great Soil Group: Yellow podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.11 m	Dark grey (10YR4/1-Moist); ; Sand; Single grain grade of structure; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; ManySharp change to -
A2	0.14 - 0.29 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Sharp, Irregular change to -
B	0.33 - 0.53 m	Yellowish brown (10YR5/6-Moist); , 10YR51; Heavy clay; Massive grade of structure; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
C1	0.53 - 0.69 m	Yellowish brown (10YR5/6-Moist); , 2.5Y72; , 10YR51; Heavy clay; Massive grade of structure; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
C2	0.91 - 1.14 m	;

Morphological Notes

C2 Massive compact speckled weathered granite

Observation Notes

Site Notes

METTA

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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 - 0.11	5.4A		4.1H	2.3	0.36	0.52	6.7H 8.7E		16B	
0.14 - 0.29	5.7A							3C		
0.33 - 0.53	5.7A		2.7H	2.8	0.28	0.38	2.4H 4.3E		10.4B	
0.53 - 0.69	5.2A									
0.91 - 1.14	5.1A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.11		2.5D		0.013D	0.2A			23	58D	28	5	2
0.14 - 0.29		0.4D		0.005D	0.029A							
0.33 - 0.53		0.3D		0.007D				30	42D	18	7	32
0.53 - 0.69												
0.91 - 1.14												

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 - 0.11									
0.14 - 0.29									
0.33 - 0.53									
0.53 - 0.69									
0.91 - 1.14									

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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
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 (%)
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