Project Name: **FLI**
Project Code: **FLI** **Site ID:** **H37** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

Site Information

Desc. By: K.D. Nicholls
Date Desc.: 26/05/52
Map Ref.: Sheet No. : 8517 1:100000
Northing/Long.: 148.083333333333
Easting/Lat.: -40.1666666666667
Locality: 1.2km SW of Ranga:
Elevation: 99 metres
Rainfall: 840
Runoff: Very rapid
Drainage: Rapidly drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Calcareous Petroclcic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc6.13
Great Soil Group: Terra rossa soil

Site Disturbance:

No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , Very sparse. *Species includes - Bursaria spinosa, Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Dark brown (7.5YR3/4-Dry); ; Sandy loam; Single grain grade of structure; Moist; Very weak consistence; 2-10%, Limestone, coarse fragments; Sharp change to -
AB	0.05 - 0.15 m	Dark brown (7.5YR3/4-Dry); , 5YR45; Sandy loam (Light); Single grain grade of structure; Moist; Very weak consistence; 10-20%, Limestone, coarse fragments; Diffuse change to -
B	0.15 - 0.38 m	Yellowish red (5YR4/5-Dry); ; Clay loam, sandy; Moist; Very weak consistence; 50-90%, Limestone, coarse fragments; Diffuse change to -

Morphological Notes

B rB CLS occurs in crevices of limestone

Observation Notes

RANGA SERIES:

Site Notes

CARENA

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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	8.2A		16.2H	2.4	0.99	0.97	0E		20.6B	
0.05 - 0.15	8.3A		4.9H	0.72	0.29	0.11	0E		6B	
0.15 - 0.38	8.4A									

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 - 0.05	1.1A	4.1C		0.074D	0.39A			0	42B	36	4	12
0.05 - 0.15	0.68A	1.6C		0.054D	0.153A			1	25B	56	5	10
0.15 - 0.38	12A	1.6C		0.054D	0.134A							

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 - 0.15									
0.15 - 0.38									

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
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
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
6B3	Total organic carbon - high frequency induction furnace, infrared
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