Project Name: LAR
Project Code: LAR **Site ID:** H32 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: J. Loveday
Locality: 4.8km N of Campbell Town and 7.2km SSE of Conara Junction:
Date Desc.: 24/01/52
Elevation: 203 metres
Map Ref.: Sheet No. : 8314 1:100000
Rainfall: 560
Northing/Long.: 147.466666666667
Runoff: Slow
Easting/Lat.: -41.8666666666667
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Pattern Type: Alluvial plain
Morph. Type: No Data
Relief: No Data
Elem. Type: Plain
Slope Category: No Data
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry): Self-mulching, Loose

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous Self-Mulching Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.13
Great Soil Group: Grey clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus pauciflora, Eucalyptus ovata

Surface Coarse Fragments: 2-10%, , rounded, Calcarenite

Profile Morphology

0 - 0.2 m	Very dark greyish brown (2.5Y3/2-Moist); , 2.5Y42; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Diffuse change to -
0.2 - 0.41 m	Dark olive grey (5Y3/2-Moist); , 5Y52; Heavy clay; Weak grade of structure, Prismatic; Weak consistence; Slightly plastic; Normal plasticity; Diffuse change to -
0.46 - 0.71 m	Olive (5Y4/4-Moist); , 5Y42; , 10YR56; Heavy clay; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
0.74 - 0.86 m	Olive (5Y4/4-Moist); , 10YR56; Heavy clay; Massive grade of structure; Weak consistence; Diffuse change to -
0.96 - 1.14 m	Olive (5Y4/4-Moist); , 10YR56; Heavy clay; Massive grade of structure; Weak consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
0 - 0.04 m	Very dark grey (5Y3/1-Moist); , 5Y21; Heavy clay; Strong grade of structure, 5-10 mm, Granular; Strong grade of structure, <2 mm, Granular; Very strong consistence; Few (2 - 10 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

CALCIUM CA POWDER THROUGHOUT PROFILE PARTICULARLY 20-114CM HAS MUCH POWDER:WANSTEAD SERIES:

Site Notes

SOMERSET

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.2	8.8A		33H	34	0.7	1.6		67C		2.39
0.2 - 0.41	9A							56G		
0.46 - 0.71	9.1A		18H	39	0.34	4.4				
0.74 - 0.86	8.8A									
0.96 - 1.14	8.9A		21.4H	46	0.34	5.7		65C		8.77
0 - 0.04	8.1A									

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 - 0.2	27A	0.9D		0.014D	0.116A			0	2B	12	9	73
0.2 - 0.41	8.32A	0.6D			0.072A			0	1B	12	9	69
0.46 - 0.71	14.5A	0.3D		0.007D	0.039A			1	4B	12	5	68
0.74 - 0.86	5.7A	0.3D			0.033A							
0.96 - 1.14	4.4A	0.2D			0.023A			2	1B	17	6	71
0 - 0.04	1.7A	1.5D			0.171A							

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 - 0.2									
0.2 - 0.41									
0.46 - 0.71									
0.74 - 0.86									
0.96 - 1.14									
0 - 0.04									

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Laboratory Analyses Completed for this profile

15_HSK_CEC	CEC - meq per 100g of soil - HOSK
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
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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette