

Project Name: LAR
Project Code: LAR Site ID: H29 Observation ID: 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J.K. Taylor	Locality:	1.6km NW of Campbell Town:
Date Desc.:	23/01/52	Elevation:	No Data
Map Ref.:	Sheet No. : 8314 1:100000	Rainfall:	560
Northing/Long.:	147.466666666667	Runoff:	Slow
Easting/Lat.:	-41.9	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
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: Minor or present (wind);

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Eutrophic Grey Chromosol	Principal Profile Form:	Dy5.12
ASC Confidence:	Great Soil Group:	No suitable group

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

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

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

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Brown (7.5YR4/2-Moist); ; Loamy sand; Single grain grade of structure; Weak consistence; Diffuse change to -
0.1 - 0.28 m	Brown (7.5YR4/2-Moist); ; Sand; Single grain grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
0.36 - 0.41 m	Dark greyish brown (10YR4/2-Moist); , 2.5YR36; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Strong consistence; Diffuse, Irregular change to -

Morphological Notes

Observation Notes

>41CM POCKETS OF 10YR42/2.5YR36/5Y52 CLAY BETWEEN BA FLOATERS (<100MM) AND POCKETS OF LIME:

Site Notes

SOMERSET

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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				Comol (+)/kg				%
0 - 0.1	5.8A		1.9H	1.3	0.8	0.06	3.9H 6.7E		10.9B	
0.1 - 0.28	6.1A									
0.36 - 0.41	6.8A		12.1H	15.4	0.39	1.2	3.6H 10.2E		39.4B	

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 - 0.1		1.3D		0.012D	0.13A				8B	71	10	10
0.1 - 0.28		0.04D			0.05A			1	16B	67	8	8
0.36 - 0.41		1.1D			0.13A				5B	28	3	62

[illegible]

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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