Project Name: LAR
Project Code: LAR **Site ID:** H31 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: J.K. Taylor
Locality: 4.8km N of Campbell Town and 7.2km SSE of Conara Junction:
Date Desc.: 23/01/52
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: Auger boring, 1.8 m deep,Basalt

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: 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Mapping Unit: N/A
Principal Profile Form: Dd1.33
Great Soil Group: Black earth

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

Surface Coarse Fragments:

Profile Morphology

Asb	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Clay loam; Weak grade of structure, Granular; Dry; Very strong consistence; 10-20%, Gravel, coarse fragments; Sharp, Irregular change to -
	0.08 - 0.3 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, Granular; Very firm consistence; Diffuse change to -
	0.3 - 0.53 m	Very dark grey (10YR3/1-Moist); , 10YR52; Heavy clay; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Ferruginous, , Concretions; Diffuse change to -
	0.53 - 0.81 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; Diffuse change to -
	0.91 - 1.02 m	Olive (5Y4/3-Moist); , 10YR43; , 5Y21; Heavy clay; Massive grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
	1.07 - 1.29 m	Olive (5Y4/3-Moist); ; Heavy clay; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
	1.83 - 1.93 m	;

Morphological Notes

Max np on basalt

Observation Notes

107-129CM CALCIUM CA POWDER (<30%): 152-183CM <10% CALCIUM CARBONATES +W'D BA STONES:WANSTEAD SERIES:

Site Notes

SOMERSET

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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	6.6A		10.2H	7.4	1.1	0.74	2.8H 6.8E		26.3B	
0.08 - 0.3	6.8A		18.2H	25	0.88	4.1	3.8H 9.8E		58B	
0.3 - 0.53	6.8A									
0.53 - 0.81	8.2A		20.2K	18.8	0.34	0.62			45.5B	
0.91 - 1.02	8.6A									
1.07 - 1.29	9A									

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		2D		0.021D	0.204A			18	13D	27	28	28
0.08 - 0.3		1D			0.141A			0	1D	12	12	71
0.3 - 0.53		0.92D			0.104A							
0.53 - 0.81	0.002A	0.94D		0.013D	0.104A			0	2D	18	20	59
0.91 - 1.02	1.95A	0.2D			0.027A							
1.07 - 1.29	4A	0.2D			0.008A							

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									
0.08 - 0.3									
0.3 - 0.53									
0.53 - 0.81									
0.91 - 1.02									
1.07 - 1.29									

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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