

Project Name: LON
Project Code: LON **Site ID:** H88 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	21km SE of Evandale:
Date Desc.:	23/02/54	Elevation:	229 metres
Map Ref.:	Sheet No. : 8314 1:100000	Rainfall:	530
Northing/Long.:	147.416666666667	Runoff:	Rapid
Easting/Lat.:	-41.716666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.7 m deep,Dolerite

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plateau
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Kandosol		Principal Profile Form:	Dr3.51
ASC Confidence:		Great Soil Group:	Krasnozern
All necessary analytical data are available.			

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

Vegetation: Low Strata - Sod grass, 0.26-0.5m, Very sparse. *Species includes - Danthonia species

Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus ovata

Surface Coarse Fragments: 2-10%, bouldery, 600mm-2m, , Dolerite

Profile Morphology

A1	0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Weak grade of structure, Granular; Moderately moist; Very weak consistence; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
	0.08 - 0.16 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Weak grade of structure, Granular; Weak consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), ; Sharp, Irregular change to -
AB	0.18 - 0.33 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Many (20 - 50 %), Ferruginous, , ; Diffuse change to -
B	0.36 - 0.51 m	Dark red (2.5YR3/6-Moist); , 10YR56, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Few (2 - 10 %), Ferruginous, , ; Diffuse change to -
	0.51 - 0.69 m	Red (2.5YR4/7-Moist); ; Medium clay; Massive grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments; Few (2 - 10 %), , , ; Diffuse change to -
	0.71 - 0.81 m	Red (2.5YR4/7-Moist); , 10YR56; , 10YR66; Medium clay; Massive grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
	0.84 - 1.02 m	Reddish brown (2.5YR4/4-Moist); , 10YR81; , 10YR66; Medium clay; Massive grade of structure;
BC	1.17 - 1.27 m	Yellowish brown (10YR5/6-Moist); , 10YR53; , 2.5YR44; Heavy clay; Moist; Weak consistence;
C	1.37 - 1.52 m	Yellowish brown (10YR5/6-Moist); , 10YR53; , 10YR81; Firm consistence; 0-2%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

137-152CM MEALY W'D DR WITH <10% POCKETS OF MOIST PLASTIC CLAY:36-69CM AGGREGATES HAVE bG STAINING: CAMPBELTON SERIES:

Site Notes

LONGFORD

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Laboratory Test Results:

[illegible][illegible]

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 - 0.08										
0.08 - 0.16										
0.18 - 0.33										
0.36 - 0.51										
0.51 - 0.69										
0.71 - 0.81										
0.84 - 1.02										
1.17 - 1.27										
1.37 - 1.52										

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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 (%)
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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction