

Project Name: HEL
Project Code: HEL **Site ID:** H147 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: J. Loveday	Locality: 2KM south of Heybridge 4.8KM north of Cuprona:
Date Desc.: 24/03/56	Elevation: 152 metres
Map Ref.: Sheet No. : 8015 1:100000	Rainfall: 990
Northing/Long.: 145.980555555556	Runoff: Rapid
Easting/Lat.: -41.1	Drainage: 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: Gently undulating rises 9-30m 1-3%	Pattern Type: Plateau
Morph. Type: Simple-slope	Relief: 15 metres
Elem. Type: Hillslope	Slope Category: Gently inclined
Slope: 5.2 %	Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Eutrophic Red Ferrosol	Principal Profile Form: Gn4.11
ASC Confidence:	Great Soil Group: Krasnozem
All necessary analytical data are available.	

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; Diffuse change to -
A	0.08 - 0.18 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Clear change to -
B	0.2 - 0.28 m	Yellowish red (5YR3/5-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -
B	0.28 - 0.36 m	Yellowish red (5YR3/5-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -
B	0.36 - 0.48 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence; 0-2%, Basalt, coarse fragments; , Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.48 - 0.61 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Basalt, coarse fragments; , Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.61 - 0.76 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Basalt, coarse fragments; Diffuse change to -
	0.76 - 0.91 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Basalt, coarse fragments; Diffuse change to -
	0.91 - 1.19 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Basalt, coarse fragments;
	1.57 - 1.68 m	Yellowish red (5YR4/6-Moist); ; Light clay; 50-90%, Basalt, coarse fragments;
	2.44 - 2.54 m	Yellowish brown (10YR5/6-Moist); , 5YR54; Very strong consistence; 50-90%, Basalt, coarse fragments;

Morphological Notes

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Observation Notes

244-254CM COMPACT DECOMPOSED BA WITH SOME CLAY:36-254CM BL STAINING ON BA GRAVELS:

Site Notes

BURNIE

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[illegible]

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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
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