

Project Name: HEL
Project Code: HEL **Site ID:** H144 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	West Ridgley
Date Desc.:	24/03/56	Elevation:	244 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1140
Northing/Long.:	145.775	Runoff:	Rapid
Easting/Lat.:	-41.15	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:	Undulating hills 90-300m 3-	Pattern Type:	Plateau
Morph. Type:	No Data	Relief:	152 metres
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	15.8 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Eutrophic Brown Ferrosol		Principal Profile Form:	Gn3.21
ASC Confidence:		Great Soil Group:	Prairie soil
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	Very dark brown (10YR2/2-Moist); ; Clay loam (Heavy); Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; Diffuse change to -
A	0.08 - 0.18 m	Very dark brown (10YR2/2-Moist); ; Clay loam (Heavy); Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; Clear change to -
B	0.22 - 0.33 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B	0.33 - 0.46 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Diffuse change to -
B	0.46 - 0.61 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Common (10 - 20 %), Unidentified, Medium (2 -6 mm), Soft segregations; Diffuse change to -
B	0.61 - 0.81 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Common (10 - 20 %), Unidentified, Medium (2 -6 mm), Soft segregations; Diffuse change to -
B	0.81 - 0.99 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Common (10 - 20 %), Unidentified, Medium (2 -6 mm), Soft segregations; Diffuse change to -
C	1.04 - 1.24 m	Greyish brown (2.5Y5/3-Moist); , 10YR56; Moist; Weak consistence; 2-10%, Basalt, coarse fragments;
	1.68 - 1.83 m	Yellowish brown (10YR5/6-Moist); , 10YR76; Weak consistence;

Morphological Notes

Observation Notes

104-124CM AND 168-183CM ARE MEALY DECOMPOSED BA WITH A FEW POCKETS OF DYG CLAY:33-99CM BL STAINING ON GV:

Site Notes

BURNIE

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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_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_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction