

Project Name: HEL
Project Code: HEL **Site ID:** H141 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	2KM north of Preolenna:
Date Desc.:	22/03/56	Elevation:	213 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1640
Northing/Long.:	145.555555555556	Runoff:	Moderately rapid
Easting/Lat.:	-41.066666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 1.1 m deep,Schist

Land Form

Rel/Slope Class:	Steep low hills 30-90m 32-56%	Pattern Type:	Low hills
Morph. Type:	Upper-slope	Relief:	61 metres
Elem. Type:	Hillslope	Slope Category:	Steep
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Mesotrophic Brown Kandosol		Principal Profile Form:	Gn3.54
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus obliqua

Surface Coarse Fragments:

Profile Morphology

O1	0.05 - 0.02 m	Organic Layer; ; ManyDiffuse change to -
O2	0.02 - 0 m	Organic Layer; Very dark greyish brown (10YR3/2-Moist); ; CommonDiffuse change to -
A1	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 10-20%, angular, Quartz, coarse fragments; CommonDiffuse change to -
A2	0.05 - 0.1 m	Dark grey (10YR4/1-Moist); ; Fine sandy loam; Moist; Weak consistence; 10-20%, angular, Quartz, coarse fragments; CommonDiffuse change to -
B1	0.18 - 0.25 m	Dark yellowish brown (10YR4/6-Moist); ; Sandy clay loam (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 10-20%, angular, Quartz, coarse fragments; CommonDiffuse change to -
	0.25 - 0.41 m	Dark yellowish brown (10YR4/6-Moist); ; Sandy clay loam (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Weak consistence; 10-20%, angular, Quartz, coarse fragments; FewDiffuse change to -
	0.41 - 0.56 m	Yellowish brown (10YR5/7-Moist); ; Fine sandy medium clay; Massive grade of structure; Weak consistence; 10-20%, angular, Quartz, coarse fragments; Diffuse change to -
	0.64 - 0.76 m	Yellowish brown (10YR5/7-Moist); ; Silty medium clay; Massive grade of structure; Weak consistence; Slightly plastic; Normal plasticity; 10-20%, angular, Quartz, coarse fragments;
BC	0.76 - 0.89 m	Yellowish brown (10YR5/7-Moist); ; Heavy clay; Moderately moist; Very firm consistence; 10-20%, angular, Quartz, coarse fragments; Sharp change to -
C	0.89 - 1.07 m	Yellowish brown (10YR5/6-Moist); , 2.5YR35; Moderately moist; Very strong consistence;
	1.07 - 1.17 m	;

Morphological Notes

On parent material (schists):

Observation Notes

0-46CM WORM ACTIVITY:94-112CM COMPACT DECOMPOSED SCHIST:23-94CM DECOMPOSED SCHIST FRACTION

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Site Notes

BURNIE

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[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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
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
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Ill	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_Vm	Vermiculite - X-Ray Diffraction