

Project Name: HEL
Project Code: HEL **Site ID:** H139 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	3.2KM north of Oldina:
Date Desc.:	22/03/56	Elevation:	177 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1220
Northing/Long.:	145.675	Runoff:	Rapid
Easting/Lat.:	-41.0555555555556	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Mudstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	21.3 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Mesotrophic Brown Dermosol	Principal Profile Form:	Gn3.74
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, Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.04 m	Very dark brown (10YR2/2-Moist); ; Silty loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; ManyDiffuse change to -
A1A2	0.04 - 0.09 m	Dark grey (10YR4/1-Moist); ; Silty loam; Weak grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; CommonDiffuse change to -
A2	0.09 - 0.18 m	Greyish brown (10YR5/2-Moist); , 10YR56; Silty clay loam; Massive grade of structure; Moderately moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Diffuse change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/6-Moist); , 2.5Y64; Silty medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Diffuse change to -
	0.3 - 0.43 m	Yellowish brown (10YR5/6-Moist); ; Heavy clay (Light); 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Few, coarse (>5mm) roots; Diffuse change to -
	0.43 - 0.56 m	Yellowish brown (10YR5/6-Moist); ; Heavy clay; Massive grade of structure; 2-10%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Diffuse change to -
BC	0.64 - 0.76 m	Brownish yellow (10YR6/6-Moist); ; Heavy clay; Massive grade of structure; Moist; Very firm consistence; Diffuse change to -
BC	0.89 - 1.07 m	Brownish yellow (10YR6/6-Moist); ; Silty medium clay; Massive grade of structure; Moist; Very firm consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments;

Morphological Notes

Observation Notes

89-107CM ZC WITH MODERATELY W'D TILLITE (GRAVELS ARE TILLITE);64-76CM CLAY WITH LIGHTLY W'D TILLITE:

Site Notes

BURNIE

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Laboratory Analyses Completed for this profile

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