

Project Name: HEL
Project Code: HEL **Site ID:** H118 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	2KM south east of Tolla:
Date Desc.:	18/05/55	Elevation:	390 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1520
Northing/Long.:	145.730555555556	Runoff:	Very slow
Easting/Lat.:	-41.1458333333334	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	0.6 m deep,Basalt

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Humose Dystrophic Red Ferrosol		Principal Profile Form:	Gn3.11
ASC Confidence:		Great Soil Group:	Krasnozern

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Dark brown (7.5YR3/4-Moist); ; Loam (Heavy); Strong grade of structure, 2-5 mm, Subangular blocky; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
0.08 - 0.15 m	Brown (7.5YR4/4-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Strong grade of structure, <2 mm, Subangular blocky; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Many, fine (1-2mm) roots;
0.15 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Fine sandy medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Subangular blocky; Weak consistence;
0.3 - 0.38 m	Reddish brown (5YR4/4-Moist); ; Fine sandy medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Subangular blocky; Weak consistence;
0.43 - 0.56 m	Strong brown (7.5YR4/6-Moist); ; Clear, Wavy change to -
0.56 - 0.66 m	;

Morphological Notes

On parent material (basalt):

Observation Notes

0-15CM WORM ACTIVITY:43-56CM DECOMPOSED BASALT BLACK (MN) COATING ALONGALL FACES AND CRACKS:

Site Notes

WELLINGTON

Observation ID: 1

[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
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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette