

Project Name: HEL
Project Code: HEL **Site ID:** H119 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	3 chains east of Waratah Highway A:6KM south of Yolla:
Date Desc.:	19/05/55	Elevation:	332 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1440
Northing/Long.:	145.7125	Runoff:	Moderately rapid
Easting/Lat.:	-41.1375	Drainage:	Moderately well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	2.4 m deep,Basalt

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plateau
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Humose-Acidic Dystrophic Red Ferrosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Gn3.11
		Great Soil Group:	Krasnozern

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark yellowish brown (10YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Weak consistence; Clear change to -
0.13 - 0.23 m	Brown (7.5YR4/4-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence;
0.23 - 0.38 m	Brown (7.5YR4/4-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions;
0.38 - 0.53 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions;
0.53 - 0.69 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions;
0.69 - 0.89 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Angular blocky; Weak consistence;
0.89 - 1.07 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Angular blocky; Weak consistence;
1.27 - 1.37 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Weak consistence; 0-2%, Charcoal, coarse fragments; Few (2 - 10 %), Unidentified, , Concretions;
1.83 - 1.96 m	Reddish brown (5YR4/4-Moist); ; Light clay; Weak consistence; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Concretions;
2.34 - 2.39 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Very weak consistence;
2.39 - 2.49 m	;

Morphological Notes

Parent material (probably basalt floater):

Observation Notes

0-46CM WORM ACTIVITY:

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WELLINGTON

Site Notes

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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
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction