

Project Name: HEL
Project Code: HEL **Site ID:** H122 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	1.6KM STH OF DOCTORS ROCKS:PROPERTY OF PAT BUSBY:ON SLOPE FALLING SEAWARDS:
Date Desc.:	20/05/55	Elevation:	110 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1000
Northing/Long.:	145.780555555556	Runoff:	Moderately rapid
Easting/Lat.:	-41.029166666667	Drainage:	Moderately well drained

Geology

Exposure Type:	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:	Simple-slope	Relief:	152 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	5.2 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Weak consistence; Many
0.08 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Weak consistence; Common
0.15 - 0.23 m	Dark reddish brown (5YR3/3-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Weak consistence; Very few (0 - 2 %), Unidentified, , ; CommonDiffuse change to -
0.23 - 0.38 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Unidentified, , ; FewDiffuse change to -
0.46 - 0.61 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Very weak consistence; Very few (0 - 2 %), Unidentified, , ; Diffuse change to -
0.61 - 0.84 m	Dark red (2.5YR3/6-Moist); , 10YR64; Heavy clay; Weak grade of structure, <2 mm, Angular blocky; Very weak consistence; Diffuse change to -
0.84 - 1.02 m	Red (2.5YR4/6-Moist); , 10YR64; Heavy clay; Weak grade of structure, <2 mm, Angular blocky; Very weak consistence;
1.12 - 1.27 m	Red (2.5YR4/6-Moist); , 10YR64; Heavy clay; Weak consistence;
1.7 - 1.88 m	Red (2.5YR4/8-Moist); ; Heavy clay (Light); Weak consistence; , Unidentified, Coarse (6 - 20 mm), ;
2.34 - 2.59 m	Strong brown (7.5YR5/8-Moist); ; Silty medium clay; Weak consistence; , Unidentified, Coarse (6 - 20 mm), ;

Morphological Notes

Observation Notes

0-38CM WORM ACTIVITY:170-188CM COATINGS OF BLACK MATERIAL+ODD POCKETS OF HALLOYSITE:234-259CM BLACK INCLUSIONS PROMINENT

Site Notes

WELLINGTON

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Laboratory Analyses Completed for this profile

15_NR_K	Exch. basic cations (K++) - 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
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