

Project Name: HEL
Project Code: HEL **Site ID:** H135 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	Tewlnesbury Potato Seed Station:
Date Desc.:	08/02/56	Elevation:	549 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1550
Northing/Long.:	145.697222222222	Runoff:	Rapid
Easting/Lat.:	-41.2458333333334	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, Basalt

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-	Pattern Type:	Plateau
Morph. Type:	Simple-slope	Relief:	61 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	15.8 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Brown Ferrosol		Principal Profile Form:	Gn4.11
ASC Confidence:		Great Soil Group:	Krasnozern

Analytical data are incomplete but reasonable confidence.

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Brown (10YR4/3-Moist); ; Clay loam; Weak grade of structure, <2 mm, Subangular blocky; Dry; Firm consistence; Diffuse change to -
A	0.08 - 0.15 m	Brown (10YR4/3-Moist); ; Clay loam; Weak grade of structure, <2 mm, Subangular blocky; Moderately moist; Firm consistence; Sharp change to -
B	0.17 - 0.28 m	Dark brown (10YR3/3-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; Diffuse change to -
B	0.28 - 0.43 m	Dark brown (10YR3/3-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; 0-2%, Basalt, coarse fragments; Diffuse change to -
B	0.46 - 0.61 m	Dark brown (10YR3/3-Moist); ; Medium clay; Strong grade of structure, <2 mm, Angular blocky; Moderately moist; Weak consistence; Diffuse change to -
B	0.61 - 0.74 m	Dark brown (10YR3/3-Moist); ; Medium clay; Strong grade of structure, <2 mm, Angular blocky; Moderately moist; Weak consistence; Diffuse change to -
BC	0.81 - 0.94 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, Other, coarse fragments; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Concretions;
C	1.04 - 1.22 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, Other, coarse fragments; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Concretions;
	2.77 - 2.87 m	;

Morphological Notes

10YR56(M) mealy decomposed basalt + occasional BL staining:

Observation Notes

81-122CM OCCASIONAL WHITE INCLUSIONS HALLOYSITE:

Site Notes

BURNIE

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Laboratory Test Results:

[illegible][illegible][illegible]

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