

Project Name: HEL
Project Code: HEL **Site ID:** H150 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	Midway between Natone and upper Natone: upslope about 4 chains west of road:
Date Desc.:	04/07/56	Elevation:	274 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1500
Northing/Long.:	145.909722222222	Runoff:	Rapid
Easting/Lat.:	-41.1958333333333	Drainage:	Well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Granite

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	Pattern Type:	Hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Acidic Dystrophic Red Kandosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Gn2.14
		Great Soil Group:	Red podzolic soil

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus obliqua

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.01 m	Organic Layer; Black (10YR2/1-Moist); ; Sandy clay loam (Light); Massive grade of structure; Moist; Very weak consistence; 50-90%, fine gravelly, 2-6mm, Quartz, coarse fragments; AbundantDiffuse change to -
A1	0.01 - 0.06 m	Dark brown (7.5YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Very weak consistence; 50-90%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abundant
	0.06 - 0.13 m	Brown (7.5YR4/2-Moist); ; Sandy medium clay; Massive grade of structure; Very weak consistence; 50-90%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abundant
B	0.13 - 0.23 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Massive grade of structure; Moist; Very weak consistence; 50-90%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common
B	0.23 - 0.34 m	Reddish brown (5YR4/4-Moist); , 5YR46, 2-10% ; , 2-10% ; Heavy clay; Massive grade of structure; Moist; Very weak consistence; 50-90%, Gravel, coarse fragments; Common
B	0.34 - 0.46 m	Reddish brown (5YR4/4-Moist); , 5YR46; Heavy clay; Massive grade of structure; Moist; Very weak consistence; 50-90%, Gravel, coarse fragments; Common, coarse (>5mm) roots;
	0.48 - 0.64 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; 20-50%, Gravel, coarse fragments;
	0.64 - 0.76 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; 20-50%, Gravel, coarse fragments;
C	0.81 - 0.97 m	Yellowish red (5YR4/6-Moist); , 10YR56; , 10YR81; Heavy clay; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Granite, coarse fragments;
	1.6 - 1.7 m	Yellowish brown (10YR5/6-Moist); , 10YR81; , 5YR64; Heavy clay; Massive grade of structure; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Granite, coarse fragments;

Morphological Notes

Observation Notes

81-170CM CLAY WITH DECOMPOSING GRANITE:48-170CM MICA FLAKES INCREASING DOWN PROFILE:

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DEVON

Site Notes

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[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
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