

**Project Name:** ESK  
**Project Code:** ESK      **Site ID:** H202      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	5.7KM N of Evandale on property "Talisker":bank 5CH from site and 1.1CHN of road/bridge join:
<b>Date Desc.:</b>	08/06/60	<b>Elevation:</b>	38 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	700
<b>Northing/Long.:</b>	147.243055555556	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.521666666667	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Clay

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Self-Mulching Black Vertosol		<b>Principal Profile Form:</b>	Ug5.16
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Wiesenboden
All necessary analytical data are available.			

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.1 m	Black (10YR2/1-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Wet; Weak consistence; Slightly plastic; Normal plasticity; Many, fine (1-2mm) roots; Diffuse change to -
	0.1 - 0.2 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Weak consistence; Slightly plastic; Normal plasticity; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; CommonDiffuse change to -
	0.2 - 0.3 m	Black (10YR2/1-Moist); , 10YR46; Heavy clay; Weak grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately plastic; Normal plasticity; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; FewDiffuse change to -
	0.3 - 0.51 m	Black (10YR2/1-Moist); ; Heavy clay; Massive grade of structure; Very few (0 - 2 %), Ferruginous, , Concretions; FewDiffuse change to -
	0.51 - 0.63 m	Black (10YR2/1-Moist); ; Heavy clay; Massive grade of structure; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; FewDiffuse change to -
	0.63 - 0.79 m	Black (2.5Y2/1-Moist); ; Heavy clay; Massive grade of structure; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
	0.79 - 0.94 m	Black (2.5Y2/1-Moist); ; Heavy clay; Massive grade of structure; Slightly plastic; Normal plasticity; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions;
	0.94 - 1.19 m	Black (2.5Y2/1-Moist); ; Heavy clay; Medium, (5 - 10) mm crack; Slightly plastic; Normal plasticity; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions;
	1.19 - 1.29 m	Black (2.5Y2/1-Moist); , 10YR56; Heavy clay; Firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Soft segregations;
	1.29 - 1.5 m	Black (2.5Y2/1-Moist); , 2.5Y44; , 10YR56; Heavy clay; Firm consistence;
	1.5 - 1.68 m	Olive brown (2.5Y4/4-Moist); , 2.5Y21; , 10YR56; Heavy clay; Very firm consistence;
	1.8 - 2.06 m	Olive brown (2.5Y4/4-Moist); , N80, 20-50% ; , 2.5YR58, 20-50% ; Heavy clay; Weak consistence;

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2.41 - 2.54 m    Olive brown (2.5Y4/4-Moist); , N80, 20-50% ; , 2.5YR58, 20-50% ; Heavy clay; Weak consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments;

**Morphological Notes**

**Observation Notes**

30-63CM SLICKENSIDES PROMINENT:CRACKS CONTINUE BEYOND BOTTOM:>180CM R+BL IS SOFT MUDSTONE + FERRUGINOUS MATERIAL:

**Site Notes**

LONGFORD

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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
3A1	EC of 1:5 soil/water extract
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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_St	Smectite - X-Ray Diffraction