

Project Name: ESK
Project Code: ESK **Site ID:** H203 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	2.4KM SE of Evandale on property "Andora":2.95CH NE from Evandale/NileRoad:
Date Desc.:	09/06/60	Elevation:	169 metres
Map Ref.:		Rainfall:	640
Northing/Long.:	147.263888888889	Runoff:	Slow
Easting/Lat.:	-41.5861111111111	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Bench	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Ferric Chomolosic Redoxic Hydrosol		Principal Profile Form:	Dy3.41
ASC Confidence:		Great Soil Group:	Lateritic podzolic soil
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse Fragments: 2-10%, stony, 200-600mm, , Coal

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Weak grade of structure, Granular; Wet; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; ManyDiffuse change to -
A1	0.1 - 0.15 m	Brown (7.5YR4/2-Moist); ; Sandy loam (Light); Wet; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; ManySharp change to -
A2	0.18 - 0.3 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Wet; Loose consistence; 20-50%, coarse gravelly, 20-60mm, rounded, stratified, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Diffuse change to -
A2	0.3 - 0.53 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Wet; Loose consistence; 20-50%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Sharp change to -
B	0.57 - 0.69 m	Light olive brown (2.5Y5/4-Moist); , 7.5YR56; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; CommonDiffuse change to -
B	0.69 - 0.84 m	Greyish brown (2.5Y5/3-Moist); , 7.5YR56; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, Quartz, coarse fragments;
B	0.84 - 1.04 m	Yellowish brown (10YR5/6-Moist); , 2.5Y51; , 2.5YR46; Heavy clay; Massive grade of structure; Moist; Firm consistence; Slightly plastic; Normal plasticity; 10-20%, coarse gravelly, 20-60mm, Quartz, coarse fragments;
B	1.04 - 1.22 m	Grey (2.5Y6/1-Moist); , 7.5YR56; , 5YR46; Heavy clay; Massive grade of structure; Moist; Moderately plastic; Normal plasticity; 2-10%, coarse gravelly, 20-60mm, Quartz, coarse fragments;
	1.52 - 1.6 m	Grey (2.5Y6/1-Moist); , 10YR56; Heavy clay; Firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few
	2.29 - 2.36 m	Olive (5Y5/3-Moist); , 10YR56; , 2.5YR58; Sandy medium clay; Firm consistence;

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3.38 - 3.48 m Brownish yellow (10YR6/6-Moist); , 2.5Y72; Clayey sand; Weak consistence;

5.44 - 5.59 m Pale olive (5Y6/4-Moist); , 7.5YR58; , 10YR56; Silty medium clay; Very plastic; Normal

Morphological Notes

Observation Notes

30-69CM SAMPLE TAKEN AROUND 230MM PUDDINGSTONE (QZ+FE CONGLOMERATE):MAJOR STRATIGRAPHIC BREAK AT 348CM:

Site Notes

LONGFORD

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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
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_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gt	Goethite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction