Project Name: FSK

Observation ID: 1 **Project Code: ESK** Site ID: H194

CSIRO Division of Soils (TAS) Agency Name:

Site Information

Desc. By: K.D. Nicholls Locality: 'Blenheim Farm' 4.85KM south of Longford (H.Smith

owner):

Date Desc.: 29/01/60 Elevation: 161 metres Map Ref.: Rainfall: 630 Northing/Long.:

147.12027777778 Runoff: Moderately rapid Easting/Lat.: -41.64444444445 Drainage: Moderately well drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Soil pit Geol. Ref.: No Data **Substrate Material:**

Land Form

Rel/Slope Class: No Data Pattern Type: No Data No Data Morph. Type: No Data Relief: Elem. Type: No Data Slope Category: No Data Aspect: 45 degrees Slope: 2 %

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Ferric Eutrophic Brown Chromosol **Principal Profile Form:** Dy3.41

ASC Confidence: Lateritic podzolic **Great Soil Group:**

All necessary analytical data are available.

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

mm), Concretions; Clear change to -

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); ; Loam (Heavy); Weak grade of structure, $0 - 0.1 \, \text{m}$ Granular; Dry; Very weak consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Concretions: Α1 0.1 - 0.16 m Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); , 10YR56; Loam (Heavy); Weak grade of structure, Granular; Dry; Very weak consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6

Brown (10YR5/3-Moist); Very pale brown (10YR7/3-Dry); ; Heavy clay; Weak grade of structure, 0.16 - 0.19 m A1A2b <2 mm, Subangular blocky; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous,

Medium (2 -6 mm), Concretions; Sharp change to -

В 0.2 - 0.33 m Strong brown (7.5YR5/8-Moist); , 10R48; Heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Moderately moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm),

: Diffuse change to -

В 0.33 - 0.46 m Strong brown (7.5YR5/6-Moist); , 10R48; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), ;

Diffuse change to -

Strong brown (7.5YR5/6-Moist); , 10R48; Heavy clay; Weak grade of structure, 20-50 mm, В 0.46 - 0.66 m Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), ;

Diffuse change to -

R 0.61 - 0.76 m Strong brown (7.5YR5/6-Moist); , 10R48; Heavy clay; Weak grade of structure, 20-50 mm,

Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), ;

Diffuse change to -

R Strong brown (7.5YR5/6-Moist); , 10R48; Heavy clay; Weak grade of structure, 20-50 mm, 0.76 - 0.91 m

Angular blocky; Moist; Weak consistence; 2-10%, Gravel, coarse fragments;

Strong brown (7.5YR5/6-Moist); , 10R36; , 2.5Y62; Heavy clay; Weak consistence; 2-10%, 1.12 - 1.22 m

Gravel, coarse fragments;

1.52 - 1.63 m Dark red (10R3/6-Moist); , 2.5Y62; , 7.5YR56; Heavy clay; Common (10 - 20 %), Ferruginous,

Very coarse (20 - 60 mm), Laminae;

Project Name: ESK

Project Code: ESK Site ID: H19
Agency Name: CSIRO Division of Soils (TAS) Site ID: H194 Observation ID: 1

2.54 - 2.64 m White (5Y8/1-Moist); , 10R36; , 7.5YR68; Heavy clay;

Morphological Notes

Observation Notes

10-16CM MANY WORM CASTS:122-163CM R MOTTLE IS SOFT IRONSTONE:20-33CM 7.5YR44 COATING TO PEDS:

Site Notes

LONGFORD

Site ID: H194 Observation ID: 1

Project Name: ESK
Project Code: ESK Site ID: H19
Agency Name: CSIRO Division of Soils (TAS)

Depth	рН	1:5 EC		changeable			Exchangeable	CEC	E	CEC	E	SP
m		dS/m	a	Mg	K	Na Cmol (+	Acidity)/kg				%	.
0 - 0.1	6.1A	0.074A	7.1H	1.4	0.16	0.27	9.7E 4.9E		1	8.6B		
0.1 - 0.16	6A	0.036A	6.9H	0.91	0.07	0.12	10.2E 5.3E		1	8.2B		
0.16 - 0.19	5.9A	0.036A	6.4H	1	0.09	0.12	10.6E 5.8E		1	8.2B		
0.2 - 0.33	6.2A	0.027A	8.4H	4.6	0.09	0.23	11.5E 4.5E		2	4.8B		
0.33 - 0.46	6.4A	0.024A										
0.46 - 0.61	6.5A	0.027A	5.3H	7.9	0.1	0.39	10.3E 3.7E		2	24B		
0.61 - 0.76	6.3A	0.03A		_					_			
0.76 - 0.91	6.1A	0.042A	6H	7	0.1	0.53	10E 3.7E		2	3.6B		
1.12 - 1.22	5.6A	0.048A										
1.52 - 1.63 2.54 - 2.64	5.4A 5.2A	0.045A 0.048A										
2.54 - 2.64	5.ZA	0.046A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total			rticle S		-	
	0.4	C	P	P	N	K	Density	G۷	CS	FS	Silt C	lay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.8D			0.042D 0.19			22	27B	25	21	19
0.1 - 0.16		2.25D		0.037				36	25B	25	23	19
0.16 - 0.19		2.3D		0.038				23	22D	27	24	20
0.2 - 0.33		1.5D 1.1D		0.019				0	3D	6	11	80
0.33 - 0.46 0.46 - 0.61		0.83D			0.0			3	1D	2	9	89
0.61 - 0.76		0.65D			0.00	JJA		3	טו	2	9	09
0.76 - 0.91								3	1D	3	8	88
1.12 - 1.22								Ū		Ū	Ū	00
1.52 - 1.63												
2.54 - 2.64												
Depth	COLE								K sat	к	unsat	
m		Sat.	0.05 Bar		0.5 Bar g - m3/m	1 Bar 3	5 Bar 15 I	sar	mm/h		mm/h	

0 - 0.1 0.1 - 0.16 0.16 - 0.19 0.2 - 0.33 0.33 - 0.46 0.46 - 0.61 0.61 - 0.76 0.76 - 0.91

1.12 - 1.22 1.52 - 1.63 2.54 - 2.64

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Laboratory Analyses Completed for this profile

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

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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15G1_H Hydrogen Cation - meq per 100g of soil - 1M KCI Exch. Acidity By titration to pH 8.0 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