ESK Project Name:

Project Code: ESK Site ID: H244 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

4.5KM SW of Cressy in "shed paddock" of property "Bronte":91M north + 122M west of boundary fences: Desc. By: K.D. Nicholls Locality:

Date Desc.: 18/04/62 Elevation: 171 metres

Map Ref.: Northing/Long.: Rainfall: 660

147.036111111111 Moderately rapid Runoff: Easting/Lat.: -41.715277777778 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: Undulating hills 90-300m 3-Pattern Type: Hills Morph. Type: Relief: No Data No Data Elem. Type: Slope Category: Gently inclined No Data Aspect: 225 degrees Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Mottled Mesotrophic Red Kurosol Dr2.11 Principal Profile Form:

ASC Confidence: Great Soil Group: Red podzolic soil

All necessary analytical data are available.

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

Vegetation:

Surface Coarse Fragments:

Profile	Morp	hol	oav
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A1	0 - 0.1 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/4-Dry); ; Clay loam; Massive grade of structure; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
A1B	0.1 - 0.18 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/4-Dry); ; Clay loam (Heavy); Massive grade of structure; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
B1	0.18 - 0.28 m	Reddish brown (5YR4/3-Moist); ; Medium heavy clay; Weak grade of structure, 2-5 mm, Subangular blocky; Dry; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; CommonDiffuse change to -
	0.28 - 0.43 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; CommonDiffuse change to -
	0.43 - 0.61 m	Reddish brown (5YR4/4-Moist); , 7.5YR44; Medium heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -
	0.61 - 0.81 m	Dark yellowish brown (10YR4/4-Moist); , 5YR44; Heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Ferruginous, , Nodules; Diffuse change to -
	1.17 - 1.24 m	Dark yellowish brown (10YR4/4-Moist); , 5YR44; Heavy clay; Massive grade of structure; Weak consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules;
	1.96 - 2.11 m	Dark yellowish brown (10YR4/4-Moist); , 2.5YR46, 2-10%; , 10YR21, 2-10%; Heavy clay; Massive grade of structure; Firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions;

Morphological Notes

Observation Notes

18-43CM SOME FAIRLY EXTENSIVE VERTICAL STRUCTURE FACES:

Site Notes

QUAMBY

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Project Name: ESK
Project Code: ESK Site ID: H2
Agency Name: CSIRO Division of Soils (TAS) Site ID: H244 Observation ID: 1

Depth	рН	1:5 EC	Exc Ca	changeable			hangeable	CEC	EC	CEC	E	SP
m		dS/m	,a	Mg	K	Na Cmol (+)/kg	Acidity				q	%
0 - 0.1	5A	0.065A	6.4H	2.6	0.56	0.23	10.4H 17.1E		26	6.9B		
0.1 - 0.18	5.1A	0.027A	4H	2.6	0.27	0.2	9H 15.3E		22	2.4B		
0.18 - 0.28	5.5A	0.024A	3.1H	3.5	0.19	0.24	9.3H 15.3E		22	2.3B		
0.28 - 0.43	5.3A	0.024A	2.3H	4.4	0.16	0.25	11.3H 17.1E		24	4.2B		
0.43 - 0.61 0.61 - 0.81	5.3A 5.1A	0.024A 0.03A	0.74H	4.8	0.13	0.25	12.2H		2	23B		
	-						17.1E					
1.17 - 1.24	4.8A	0.039A	0.25H	4.7	0.12	0.25	12.5H 21.4E		26	6.7B		
1.96 - 2.11	4.7A	0.057A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk		rticle Si			
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV		-S %	Silt	Clay
0 - 0.1		3.86D		0.065		S2A 0.127C		15	14B	22	24	32
0.1 - 0.18		1.8D		0.044		86A 0.131C		12	12B	21	24	39
0.18 - 0.28 0.28 - 0.43		0.93D 0.65D		0.033E 0.026E		72A 0.18C 58A 0.19C		11 3	7D 6D	14 9	13 8	63 75
0.43 - 0.61		0.000		0.0202	0.00	JOA 0.130		3	OD	3	U	75
0.61 - 0.81						0.155C		2	7D	11	9	72
1.17 - 1.24 1.96 - 2.11						0.159C		5	8D	12	11	68
Depth	COLE	Sat.	Gra	vimetric/Vo 0.1 Bar	lumetric V 0.5 Bar	Vater Content 1 Bar		Bar	K sat	K	unsat	
m		Jai.	U.UJ Dai		g - m3/m		, Dai 13	Dai	mm/h		mm/h	

0 - 0.1

0.1 - 0.18 0.18 - 0.28

0.18 - 0.28 0.28 - 0.43 0.43 - 0.61 0.61 - 0.81 1.17 - 1.24 1.96 - 2.11

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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

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
Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

17A_HCL Total element - K(%) - By boiling HCl

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 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