

Project Name: Shire of Kowree, Vic
Project Code: SK **Site ID:** A19 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	G. Blackburn	Locality:	
Date Desc.:	24/11/53	Elevation:	152 metres
Map Ref.:	1:250000	Rainfall:	530
Northing/Long.:	141.504166666667	Runoff:	Rapid
Easting/Lat.:	-36.818888888889	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Ridge	Relief:	18 metres
Elem. Type:	Lunette	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Hypercalcic Brown Chromosol		Principal Profile Form:	Dr2.33
ASC Confidence:		Great Soil Group:	Red-brown earth
All necessary analytical data are available.			

Site Disturbance:

Vegetation: Low Strata - , , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam; , Granular; Very weak consistence; Many, fine (1-2mm) roots;
0.08 - 0.15 m	Dark brown (10YR3/3-Moist); , 10YR44; Medium clay; Very weak consistence;
0.45 - 0.5 m	Very pale brown (10YR8/4-Moist); ; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
0.95 - 1 m	; Many (20 - 50 %), Calcareous, , Soft segregations;

Morphological Notes

Observation Notes

Site Notes

LOWAN S & L.U. No 17. Map Site 19

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	6.7A	0.011C	5.3F	1.1	0.76	0.12				
0.08 - 0.15	7.2A	0.017C	16.9F	5.3	2	0.22	5.4C			
0.45 - 0.5	8.7A	0.057C								
0.95 - 1	9.3A	0.066C								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08				0.008F	0.09C				42C	38	7	12
0.08 - 0.15				0.011F	0.123C				28C	20	3	50
0.45 - 0.5	39A								11C	7	2	39
0.95 - 1	26A								19C	12	2	41

[illegible]

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. acidity By titration to pH 8.4
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
7_C_B	Total Nitrogen - method description not recorded
9A_NR	Total element - P(%) - Not recorded
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_II	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