

Project Name: Shire of Kowree, Vic
Project Code: SK **Site ID:** A5 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	G. Blackburn	Locality:	
Date Desc.:	21/11/53	Elevation:	150 metres
Map Ref.:	1:250000	Rainfall:	550
Northing/Long.:	141.149166666667	Runoff:	Very slow
Easting/Lat.:	-36.805277777778	Drainage:	Poorly 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:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	3 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mottled-Hypernatric Brown Sodosol		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	Solodized solonetz
Analytical data are incomplete but reasonable confidence.			

Site Disturbance:

Vegetation: Low Strata - Sedge, , . *Species includes - None recorded
Mid Strata - Shrub, , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus baxteri, Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Grey (10YR6/1-Moist); ; Sand; Single grain grade of structure; Common, very fine (0-1mm) roots; Diffuse change to -
0.08 - 0.15 m	Light grey (10YR7/1-Moist); ; Sand; Loose consistence; Many, coarse (>5mm) roots;
0.15 - 0.28 m	Light grey (10YR7/1-Moist); ; Sand; Loose consistence; Many, coarse (>5mm) roots;
0.28 - 0.5 m	Light grey (10YR7/1-Moist); , 10YR31; Sand; Loose consistence; Common, fine (1-2mm) roots; Diffuse, Irregular change to -
0.5 - 0.65 m	Very pale brown (10YR7/4-Moist); , 10YR64; , 10YR32; Sand; Loose consistence; 2-10%, Sand, coarse fragments; Abrupt change to -
0.65 - 0.73 m	Yellowish brown (10YR5/6-Moist); , 10YR51; Sandy clay loam; , Columnar; Massive grade of structure; 2-10%, Sand, coarse fragments; Diffuse change to -
0.73 - 0.9 m	Yellowish brown (10YR5/4-Moist); , 10R56; , 10YR51; Sandy medium clay; Massive grade of structure; Strong consistence; Calcrete;
0.9 - 1.18 m	Yellow (10YR7/6-Moist); , 5Y63; Sandy medium clay; Massive grade of structure; Very firm consistence;
1.18 - 1.43 m	Yellow (10YR7/6-Moist); , 5Y63; Sandy medium clay; Massive grade of structure; Very firm consistence; 2-10%, Limestone, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations;

Morphological Notes

Observation Notes

TOP OF CLAY UNEVEN THROUGH 2.5CM WITH CRACKS WITH GREY MATERIAL & BLEACHED CAPPINGS 1CM THICK

Site Notes

LOWAN S & L.U. No 17. Map Site 5

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	Acidity	CEC	ECEC	ESP
m		dS/m				Na	(+)/kg			%
0 - 0.08	6.1A	0.003C	0.5F	0.2	0.01	0.03				
0.08 - 0.15	5.6A	0.003C								
0.15 - 0.28	5.7A	0.005C								
0.28 - 0.5	6A	0.005C								
0.5 - 0.65	6.7A	0.01C								
0.65 - 0.73	7.3A	0.036C	1.7F	3.5	0.11	2.2				
0.73 - 0.9	8.2A	0.084C								
0.9 - 1.18	8.6A	0.102C								
1.18 - 1.43	9.7A	0.179C								

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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
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