

Project Name: Kaniva, Vic. (Gilgai Soils)
Project Code: REG **Site ID:** A1065 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	G. Blackburn	Locality:	
Date Desc.:	14/09/70	Elevation:	No Data
Map Ref.:	Sheet No. : 7125 1:100000	Rainfall:	460
Northing/Long.:	141.35	Runoff:	No Data
Easting/Lat.:	-36.4666666666667	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Brown clay
Confidence level not specified			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (2.5Y4/2-Moist); Greyish brown (2.5Y5/2-Dry); ; Fine sandy clay loam; Weak grade of structure, 5-10 mm, Granular; Many (>5 per 100mm2) macropores, Weak consistence; Field pH 5.5 (pH meter); Abundant, very fine (0-1mm) roots; Clear change to -
A2	0.05 - 0.1 m	Greyish brown (10YR5/2-Moist); Light brownish grey (2.5Y6/2-Dry); , 2.5Y82, 10-20% , 5-15mm, Distinct; , 10YR81, 10-20% , 5-15mm, Distinct; Sandy clay loam (Light); Weak grade of structure, 10-20 mm, Angular blocky; Many (>5 per 100mm2) macropores, Strong consistence; Field pH 6 (pH meter); Abundant, very fine (0-1mm) roots; Clear change to -
A2/B	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 2.5Y54, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Very strong consistence; Many, very fine (0-1mm) roots; Diffuse change to -
B	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); , 10YR51, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) macropores, Very firm consistence; Field pH 7.5 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -
B	0.3 - 0.4 m	Brown (10YR5/3-Moist); , 10YR52, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Very firm consistence; Common, very fine (0-1mm) roots; Diffuse change to -
B	0.4 - 0.5 m	Yellowish brown (10YR5/4-Moist); , 2.5Y52, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Very firm consistence; Field pH 8.3 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -
	0.5 - 0.6 m	Yellowish brown (10YR5/4-Moist); , 10YR74, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) macropores, Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous; Common, very fine (0-1mm) roots; Diffuse change to -

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0.6 - 0.7 m	Light yellowish brown (10YR6/4-Moist); , 10YR52, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) macropores, Very firm consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
0.7 - 0.8 m	Brown (7.5YR5/4-Moist); , 10YR86, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) macropores, Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Common, very fine (0-1mm) roots; Diffuse change to -
0.8 - 0.9 m	Brownish yellow (10YR6/6-Moist); , 10YR61, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) macropores, Firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
0.9 - 1 m	Brownish yellow (10YR6/6-Moist); , 10YR52, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Soil matrix is Moderately calcareous; Field pH 9 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
1 - 1.1 m	Reddish yellow (7.5YR6/6-Moist); , 2.5Y62, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Soil matrix is Slightly calcareous; Common, very fine (0-1mm) roots; Diffuse change to -
1.1 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 2.5Y62, 20-50% , 5-15mm, Prominent; , 7.5YR56, 20-50% , 5-15mm, Prominent; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) macropores, Firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Field pH 9 (pH meter); Diffuse change to -
1.2 - 1.3 m	Reddish yellow (7.5YR7/6-Moist); , 5Y73, 20-50% , 5-15mm, Faint; , 5Y84, 20-50% , 5-15mm, Faint; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) macropores, Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Slightly calcareous; Diffuse change to -
1.3 - 1.4 m	Light yellowish brown (10YR6/4-Moist); , 2.5Y72, 20-50% , 5-15mm, Distinct; , 7.5YR56, 20-50% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) macropores, Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 8.5 (pH meter); Diffuse change to -
1.4 - 1.5 m	Light reddish brown (5YR6/3-Moist); , 10YR74, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) macropores, Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Diffuse change to -
1.5 - 1.6 m	Pale yellow (2.5Y7/4-Moist); , 7.5YR66, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Many (20 - 50 %), Calcareous, Fine (0 - 2 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9 (pH meter); Diffuse change to -
1.6 - 1.7 m	Light yellowish brown (2.5Y6/4-Moist); , 2.5Y82, 10-20% , 5-15mm, Distinct; , 7.5YR66, 10-20% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Diffuse change to -
1.7 - 1.8 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR66, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9 (pH meter); Diffuse change to -
1.8 - 1.9 m	Pale olive (5Y6/3-Moist); , 7.5YR66, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) macropores, Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Few, very fine (0-1mm) roots; Diffuse change to -

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1.9 - 2 m Pale olive (5Y6/3-Moist); , 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm²) macropores; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Soil matrix is Slightly calcareous; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

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[illegible]

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0 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1
1 - 1.1
1.1 - 1.2
1.2 - 1.3
1.3 - 1.4
1.4 - 1.5
1.5 - 1.6
1.6 - 1.7
1.7 - 1.8
1.8 - 1.9
1.9 - 2

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - 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