Project Name: Kaniva, Vic. (Gilgai Soils)

Project Code: Site ID: A1062 Observation ID: 1 REG

Agency Name: CSIRO Division of Soils (VIC)

Site Information

G. Blackburn

Desc. By: Date Desc.: Locality: Elevation: 14/09/70 120 metres Sheet No.: 7125 1:100000 Map Ref.: Rainfall: 480 Northing/Long.: 141.1 Runoff: No Data

Easting/Lat.: -36.45 Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Alluvial plain Morph. Type: Elem. Type: No Data Relief: 5 metres Plain **Slope Category:** No Data No Data Slope: 0 % Aspect:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: 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:

Pro	TIIE	wor	pno	olog	١
_				_	-

1 101110	Wor priorogy	
Α	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); , 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Clay loam; Moderate grade of structure, 5-10 mm, Granular; Strong consistence; Soil matrix is Moderately calcareous; Field pH 8.5 (pH meter); Abundant, fine (1-2mm) roots; Diffuse change to -
В	0.1 - 0.2 m	Brown (10YR4/3-Moist); Brown (10YR5/3-Dry); , 7.5YR54, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Weak consistence; Soil matrix is Moderately calcareous; Abundant, fine (1-2mm) roots; Diffuse change to -
В	0.2 - 0.3 m	Brown (10YR4/3-Moist); , 7.5YR42, 10-20% , 5-15mm, Distinct; , 5YR46, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (pH meter); Many, fine (1-2mm) roots; Diffuse change to -
В	0.3 - 0.4 m	Brown (10YR4/3-Moist); , 5YR46, 10-20% , 5-15mm, Distinct; , 10YR64, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Weak consistence; Common (10 - 20%), Calcareous, , ; Soil matrix is Moderately calcareous; Many, fine (1-2mm) roots; Clear change to -
В	0.4 - 0.5 m	Dark greyish brown (10YR4/2-Moist); , 5YR46, 20-50% , 5-15mm, Distinct; , 10YR43, 20-50% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Firm consistence; Soil matrix is Moderately calcareous; Field pH 9 (pH meter); Many, very fine (0-1mm) roots; Abrupt change to -
В	0.5 - 0.6 m	Yellowish red (5YR5/6-Moist); , 10YR43, 20-50% , 5-15mm, Faint; , 10YR32, 20-50% , 5-15mm, Faint; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Very firm consistence; Very few (0 - 2 %), Calcareous, , ; Soil matrix is Moderately calcareous; Many, very fine (0-1mm) roots; Abrupt change to -
	0.6 - 0.7 m	Reddish brown (5YR4/4-Moist); , 7.5YR54, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Very firm consistence; Very few (0 - 2 %), Calcareous, , ; Soil matrix is Slightly calcareous; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -

Project Code: A1062 Observation ID: 1 REG Site ID: **CSIRO Division of Soils (VIC) Agency Name:** 0.7 - 0.8 m Brown (7.5YR5/4-Moist); , 2.5YR64, 10-20% , 0-5mm, Faint; , 7.5YR66, 10-20% , 0-5mm, Faint; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Strong consistence; Soil matrix is Slightly calcareous; Abrupt change to Brown (7.5YR5/4-Moist); , 2.5YR52, 10-20% , 5-15mm, Distinct; , 10YR32, 10-20% , 5-15mm, 0.8 - 0.9 m Distinct; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Strong consistence; Soil matrix is Moderately calcareous; Field pH 9 (pH meter); Common, fine (1-2mm) roots; Abrupt Strong brown (7.5YR5/6-Moist); , 2.5Y72, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, 0.9 - 1 mDistinct; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Very firm consistence; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Highly calcareous; Few, very fine (0-1mm) roots; Abrupt change to -Very pale brown (10YR7/4-Moist); , 10YR72, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; 1 - 1.1 m Light clay; Strong grade of structure, 10-20 mm, Prismatic; Strong consistence; Few (2 - 10 %), Calcareous, , ; Soil matrix is Highly calcareous; Field pH 9 (pH meter); FewAbrupt change to -Very pale brown (10YR7/4-Moist); , 10YR42, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, 1.1 - 1.2 m Distinct; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Highly calcareous; Few, very fine (0-1mm) roots; Abrupt change to -1.2 - 1.3 m Very pale brown (10YR7/4-Moist); , 10YR42, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous; Few, very fine (0-1mm) roots; Abrupt change to -Very pale brown (10YR7/4-Moist); , 7.5YR66, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, 1.3 - 1.4 m Distinct; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous; Abrupt change to -Very pale brown (10YR7/4-Moist); , 2.5Y74, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, 1.4 - 1.45 m Distinct; Clay loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous; Field pH 9 (pH meter); Clear change to -Light yellowish brown (2.5Y6/4-Moist); , 10YR32, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, 1.45 - 1.56 m Distinct; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Soil matrix is Moderately calcareous; Field pH 8.6 (pH meter); Few, very fine (0-1mm) roots; Light yellowish brown (2.5Y6/4-Moist); , 10YR63, 2-10% , 5-15mm, Faint; , 10YR32, 2-10% , 5-1.56 - 1.6 m 15mm, Faint; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Soil matrix is Moderately calcareous; Light yellowish brown (2.5Y6/4-Moist); , 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; 1.6 - 1.7 m Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (pH meter); Light yellowish brown (2.5Y6/4-Moist); , 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; 1.7 - 1.8 m Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Soil matrix is Slightly calcareous; Light yellowish brown (2.5Y6/4-Moist); , 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; 1.8 - 1.9 m Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Slightly calcareous; Field pH 9.5 (pH meter); Few, very fine (0-1mm) roots;

Light yellowish brown (2.5Y6/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm,

Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is

Morphological Notes
Observation Notes
Site Notes

1.9 - 2 m

Slightly calcareous;

Project Name:

Kaniva, Vic. (Gilgai Soils)

LOWAN

Project Name: Kaniva, Vic. (Gilgai Soils)
Project Code: REG Site ID: A1062
Agency Name: CSIRO Division of Soils (VIC) Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC		hangeable			Exchangeal	ole CEC	1	ECEC	E	SP
m		dS/m	Ca	Mg	K	Na Cmol	Acidity (+)/ka				9	6
							(1)113					
0 - 0.1	8H	0.071B		4.2	1.6	0.93						
0.1 - 0.2	8.4H	0.061B		5.9	1.2	1.3						
0.2 - 0.3	8.6H	0.065B	24K	7.5	1.2	1.6						
0.3 - 0.4	8.8H	0.068B										
0.4 - 0.5	9H	0.095B	16K	9	1.3	3.6						
0.5 - 0.6	9.2H	0.14B	4016	4-	4.0	0.0						
0.6 - 0.7	9.1H	0.23B	10K	15	1.6	8.2						
0.7 - 0.8	9.2H	0.36B	0.01/	4.5	4 7	0.7						
0.8 - 0.9	9.2H	0.41B	8.2K	15	1.7	9.7						
0.9 - 1 1 - 1.1	9.1H 9.2H	0.47B	6.8K	14	1.6	10						
1.1 - 1.2	9.2H	0.5B 0.5B	O.OK	14	1.0	10						
1.2 - 1.3	9.111 9.3H	0.3B 0.47B	7.4K	12	1.3	8.5						
1.3 - 1.4	9.3H	0.47B	7.41	12	1.5	0.5						
1.4 - 1.45	9.3H	0.42B	6.2K	10	1.1	8.7						
1.45 - 1.56	9.2H	0.49B	0.21	10		0.7						
1.56 - 1.6	9.2H	0.53B	7.6K	13	1.5	7.8						
1.6 - 1.7	9.2H	0.51B										
1.7 - 1.8	9.1H	0.53B	7.5K	15	1.5	10						
1.8 - 1.9	9.1H	0.52B										
1.9 - 2	9.1H	0.52B	7.5K	15	1.6	10						
Depth	CaCO3	Organic	Avail.	Total	Total	Tot	al Bulk	, D:	article	Sizo A	Analysis	
Бериі	Cacos	C	P	P	N	K			CS	FS	Silt (Clav
m	%	%	mg/kg		%	%			•	%	•	,
0 - 0.1	2.5C	1.8E			0.3	2B			14C	35	7	40
0.1 - 0.2	11C	1E		0.094B					11C	31	7	42
0.2 - 0.3	12C	0.9E	0.078B 9C						30	8	42	
0.3 - 0.4	9.9C	0.66E	0.067B									
0.4 - 0.5	5.6C	0.41E							11C	37	10	39
0.5 - 0.6	4.2C	0.27E	0.031B							_		
0.6 - 0.7	6.2C	0.24E	0.027B 7C 26 6							6	52	
0.7 - 0.8 0.8 - 0.9	11C 17C	0.19E 0.17E	0.018B							47		
0.8 - 0.9	22C	0.17E 0.21E									47	
1 - 1.1	27C	0.21E 0.15E								43		
1.1 - 1.2	32C	0.14E	0.013B 0C 10 0							70		
1.2 - 1.3	39C	0.14E	0.013B 5C 15 5							35		
1.3 - 1.4	46C	0.1E				08B					_	
1.4 - 1.45	45C	0.07E				08B			5C	12	6	32
1.45 - 1.56	22C	0.07E			0.0	13B						
1.56 - 1.6	13C	0.17E				21B			9C	25	11	44
1.6 - 1.7	10C	0.08E				13B						
1.7 - 1.8	10C	0.07E				13B			9C	26	8	45
1.8 - 1.9	5.7C	0.09E				13B					_	
1.9 - 2	3.5C	0.07E			0.0	12B			9C	23	8	50
Depth	pth COLE Gravimetric/Volumetric Water Contents						K sa	ıt	K unsat			
		Sat.	0.05 Bar			5 Bar	15 Bar		L			
m				g/	g - m3/m	13			mm/	11	mm/h	

Kaniva, Vic. (Gilgai Soils) **Project Name:**

Project Code: Agency Name: A1062 Observation ID: 1 REG Site ID:

CSIRO Division of Soils (VIC)

0 - 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 - 1.45

1.4 - 1.45 1.45 - 1.56 1.56 - 1.6 1.6 - 1.7 1.7 - 1.8 1.8 - 1.9

Project Name: Kaniva, Vic. (Gilgai Soils)

Project Code: REG Site ID: A1062 Observation ID: 1

Agency Name: CSIRO Division of Soils (VIC)

Laboratory Analyses Completed for this profile

15_NR_CAExch. basic cations (Ca++) - meq per 100g of soil - Not recorded15_NR_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15_NR_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15_NR_NAExch. basic cations (Na++) - meq per 100g of soil - Not recorded

19B_NR Calcium Carbonate (CaCO3) - 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 recordede

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