Projec	et Name: et Code: ey Name:	REG	iva, Vic. (Gilgai Soils) S Site ID: RO Division of Soils (VI	A1065 C)	Observation ID:	1		
<u>Site In</u> Desc. E	Site Information Desc. By: G. Blackburn Locality:							
Date De Map Re Northir Easting	esc.: ef.: ng/Long.: g/Lat.:	14/09/7 Sheet N 141.35	70 No. : 7125 1:100000	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data 460 No Data Imperfectly drair	ned		
<u>Geolo</u> Exposi Geol. R	ureType:	Soil pit No Data		Conf. Sub. is Pa Substrate Mater				
Morph. Elem. T Slope:	pe Class: Type: Type:	No Dat No Dat 0 %	ta ta	Pattern Type: Relief: Slope Category Aspect:	No Data No Data : No Data No Data			
	<u>e Soil Co</u>	ondition	n (dry): Hardsetting, Crac	cking				
Erosio Soil Cl	<u>n.</u> Iassificati	ion						
N/A ASC C Confide		: not spec		Prin Grea	ping Unit: cipal Profile Form: at Soil Group:	N/A N/A Brown clay		
			Strata - Tree, 6.01-12m, Sp	parse. *Species inc	cludes - None Recor	ded		
-	<u>e Coarse</u> Morphol		nents:					
A1	0 - 0.05 n	n l		n, Granular; Many ((>5 per 100mm2) n	; ; Fine sandy clay loam; Weak nacropores, Weak consistence; change to -		
A2	0.05 - 0.1	 :	Distinct; , 10YR81, 10-20%	, 5-15mm, Distinct ar blocky; Many (>	; Sandy clay loam (I 5 per 100mm2) ma	cropores, Strong consistence;		
A2/B	0.1 - 0.2 ı	I	Distinct; Sandy medium clay	y; Strong grade of	structure, 20-50 mm	Distinct; , 10-20% , 5-15mm, , Angular blocky; Many (>5 per e (0-1mm) roots; Diffuse change		
В	0.2 - 0.3 ı			; Strong grade of s	tructure, 20-50 mm,	nm, Distinct; , 10-20% , 5- Angular blocky; Few (<1 per neter); Many, very fine (0-1mm)		
В	0.3 - 0.4 ı	(ure, 20-50 mm, An	gular blocky; Many (20% , 5-15mm, Faint; Heavy >5 per 100mm2) macropores, change to -		
В	0.4 - 0.5 ı	l r	Yellowish brown (10YR5/4-I Heavy clay; Strong grade of macropores, Very firm cons Diffuse change to -	f structure, 20-50 r	nm, Angular blocky;			
	0.5 - 0.6 ı	l r	Yellowish brown (10YR5/4-I Heavy clay; Weak grade of macropores, Very firm cons Moderately calcareous; Cor	structure, 20-50 m istence; Few (2 - 1	m, Angular blocky; I 0 %), Calcareous, ,	Nodules; Soil matrix is		

Project Name:Kaniva, Vic. (Gilgai Soils)Project Code:REGSite ID:A1065Observation ID:1Agency Name:CSIRO Division of Soils (VIC)Site ID:A1065Observation ID:1

- 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; 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; 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 -

Project Name:	Kaniva, Vic. (Gi	Igai Soils)	
Project Code:	REG	Site ID:	A1065
Agency Name:	CSIRO Division	of Soils (V	IC)

Observation ID: 1

1.9 - 2 mPale 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

Project Name:Kaniva, Vic. (Gilgai Soils)Project Code:REGSite ID:Agency Name:CSIRO Division of Soils (VIC)

Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC	Ex a	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		9			(+)/kg			%
0 - 0.05	6.7H	0.053B	4.4K	3.4	0.76	0.77				
0.05 - 0.1	7.9H	0.13B	3.6K	3.3	0.39	1.1				
0.1 - 0.2	7.9H	0.13B	8.4K	9.6	1.1	3.5				
0.2 - 0.3	8.4H	0.15B								
0.3 - 0.4	8.7H	0.19B	9.7K	13	1.3	6.3				
0.4 - 0.5	8.8H	0.18B								
0.5 - 0.6	8.9H	0.28B	7.8K	14	1.5	7.5				
0.6 - 0.7	8.9H	0.34B								
0.7 - 0.8	8.9H	0.41B	5.9K	15	1.5	9.1				
0.8 - 0.9	8.8H	0.46B								
0.9 - 1	8.7H	0.41B	5.6K	10	7.1	6.8				
1 - 1.1	8.8H	0.46B								
1.1 - 1.2	8.5H	0.5B	7.3K	16	1.7	9.4				
1.2 - 1.3	8.7H	0.51B								
1.3 - 1.4	8.9H	0.48B	6.8K	14	1.4	7.8				
1.4 - 1.5	8.9H	0.51B								
1.5 - 1.6	8.9H	0.52B	7.5K	14	1.4	8.1				
1.6 - 1.7	9H	0.52B								
1.7 - 1.8	8.8H	0.55B	8.3K	15	1.5	9.1				
1.8 - 1.9	8.8H	0.56B								
1.9 - 2	8.8H	0.57B	8.5K	16	1.5	9.4				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				Analysis	
m	%	C %	P mg/kg	P %	N %	K %	Densit Mg/m3		CS	FS %	Silt	Clay
			5.5				J					
0 - 0.05	0C	2.6E			0.17	3			24C	29	10	32
0.05 - 0.1	0.35C) 1.1E			0.61	3			28C	35	9	24
0.1 - 0.2	0.320	0.61E			0.049	В			15C	20	3	56
0.2 - 0.3	0.520	0.45E			0.052	В						
0.3 - 0.4	0.520	0.44E			0.045	В			12C	16	3	63
0.4 - 0.5	0.0770	C 0.36E			0.038	В						
0.5 - 0.6	1.2C	0.34E			0.031	В			14C	21	3	56
0.6 - 0.7	0.370	0.25E			0.025	В						
0.7 - 0.8	1.2C	0.19E			0.025	В			11C	16	5	62
0.8 - 0.9	0.460	0.18E			0.023	В						
0.9 - 1	0.0950				0.016	-			20C	24	- 2	50
1 - 1.1	0.43C	0.13E			0.015	В						
1.1 - 1.2	0.0420				0.014				18C	22	: 1	54
1.2 - 1.3	0.18C	-			0.13							
1.3 - 1.4	8.5C				0.014				19C	23	5 1	45
1.4 - 1.5	5.9C				0.012							
1.5 - 1.6	5.6C	-							44			
1.6 - 1.7	6.7C	-	0.013B									
1.7 - 1.8	2.9C	-									47	
1.8 - 1.9	4.2C	-			0.014							
1.9 - 2	6.5C	0.13E			0.014	В			18C	20) 1	50
Depth	COLE		Gravi	metric/Volu	umetric Wa	ter Conte	nts		K sa	at	K unsa	t
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar	15 Bar				
m				g/g	- m3/m3				mm	/h	mm/h	

Project Name:	Kaniva, V	ic. (Gilgai Soils)	
Project Code:	REG	Site ID:	A1065
Agency Name:	CSIRO Di	vision of Soils (V	IC)
Agency Mame.			10)

Observation ID: 1

 $\begin{array}{c} 0 - 0.05 \\ 0.05 - 0.1 \\ 0.1 - 0.2 \\ 0.2 - 0.3 \\ 0.3 - 0.4 \\ 0.4 - 0.5 \\ 0.5 - 0.6 \end{array}$ 0.4 0.3 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 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

Project Name:Kaniva, Vic. (Gilgai Soils)Project Code:REGSite ID:Agency Name:CSIRO Division of Soils (VIC)

Observation ID: 1

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 (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 - CI(%) - 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