LSG **Project Name:**

Project Code: LSG Site ID: CP62 Observation ID: 1

Agency Name: CSIRO Division of Soils (VIC)

Site Information

Locality: J.R. Sleeman Padock 9 to 10M S.W. of pump. site:

Desc. By: Date Desc.: Elevation: 22/06/76 80 metres Sheet No.: 7626 1:100000 Map Ref.: Rainfall: 360 Northing/Long.: 143.966666666667 Runoff: Slow Easting/Lat.: -35.7666666666667 Drainage: Poorly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Substrate Material: Unconsolidated material (unidentified) No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Alluvial plain

1-3%

Flat No Data Morph. Type: Relief: Valley flat Slope Category: Elem. Type: Level Slope: 0 % Aspect: 200 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Epihypersodic-Endoacidic Massive Brown Vertosol Principal Profile Form: Ug5.5 **ASC Confidence: Great Soil Group:** Brown clay

All necessary analytical data are available.

segregations;

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

WIOI PHOTOGY	
0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Light medium clay; Massive grade of structure; Very strong consistence; Field pH 7.3 (pH meter); Common
0.1 - 0.2 m	Brown (10YR4/3-Moist); ; Light medium clay; , Angular blocky; Very firm consistence; Field pH 8.1 (pH meter);
0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Light medium clay; Massive grade of structure; Weak consistence; Field pH 8 (pH meter);
0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); ; Light medium clay; Massive grade of structure; Very weak consistence; Field pH 8.2 (pH meter);
0.4 - 0.5 m	Yellowish brown (10YR5/4-Moist); ; Light medium clay; Massive grade of structure; Very weak consistence;
0.5 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Light medium clay; Massive grade of structure; Very weak consistence; Field pH 8.3 (pH meter);
0.6 - 0.7 m	Light yellowish brown (10YR6/4-Moist); ; Light medium clay; Massive grade of structure; Weak consistence; , Gypseous, Medium (2 -6 mm), Soft segregations;
0.7 - 0.8 m	Light yellowish brown (10YR6/4-Moist); ; Light medium clay; Massive grade of structure; Weak consistence; , Gypseous, Medium (2 -6 mm), Soft segregations; Field pH 7.5 (pH meter);
0.8 - 0.9 m	Light yellowish brown (10YR6/4-Moist); ; Light medium clay; Massive grade of structure; Weak consistence; , Gypseous, Medium (2 -6 mm), Soft segregations;
0.9 - 1 m	Light yellowish brown (10YR6/4-Moist); ; Light medium clay; Massive grade of structure; Weak consistence; , Gypseous, Medium (2 -6 mm), Soft segregations; Field pH 7.9 (pH meter);
1 - 1.1 m	Light yellowish brown (10YR6/4-Moist); , 2.5YR54, 2-10%; , 2-10%; Light medium clay; Massive grade of structure; Weak consistence; , Gypseous, Medium (2 -6 mm), Soft segregations;
1.1 - 1.2 m	Light yellowish brown (10YR6/4-Moist); , 2.5YR54, 10-20%; , 10-20%; Light medium clay; Massive grade of structure; Weak consistence; , Gypseous, Medium (2 -6 mm), Soft

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 $\label{light-poly-li$ 1.2 - 1.3 m

segregations;

Morphological Notes

Observation Notes

GLOSSY SURFACES 30-90CM: "PIPES" (30-90CM) MN STAINING ON SHINY FACES: HORIZONTAL BAND AT 2-4CM:

Site Notes

KERANG FARM

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			ı	Exchangeable		CEC		Е	SP
•	•			Иg	K	Na	Acidity					
m		dS/m	S/m			Cmol (+)/kg					g	%
0 - 0.1	7.3A	0.26A	9K	7.6	1	3.6	8.1B	29.3	.1		13	2.29
0.1 - 0.2	8.1A	0.6A	12.4K	12	0.92	7	6.4B	38.7	-			3.09
0.2 - 0.3	8A	0.92A	11K	12.6	1.2	7.5	5.1B	37.4	-			0.05
0.3 - 0.4	8.2A	1.1A	9K	12.6	1	8.2	4.7B	35.5	-			3.10
0.5 - 0.6	8.3A	1.4A	8.5K	11.4	1	8.7	3.2B	32.7				6.61
0.7 - 0.8	7.5A	3.6A	8.8K	10.1	1	9	1.1B	_	30J		30.00	
0.9 - 1	7.9A	3.1A	8.1K	10.3	1	8.4	2.5B	30.3	30.3J		27.72	
1.1 - 1.2	8A	3.2A	7.6K	9.8	0.93	9.6	1.9B	29.8	9.8J		32	2.21
Depth	CaCO3	Organic	Avail.	Total	Total	Total	l Bulk	Pa	rticle	Size	Analysis	
•		C	P	Р	N	K	Density	GV	CS	FS	Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.1		1.9D							0D	28		50
0.1 - 0.2	0.08A	-							0D	15		64
0.2 - 0.3	0.09A								0D	13		64
0.3 - 0.4	0.1A	0.41D							0D	15	_	70
0.5 - 0.6	0.47A	-							0D	14	_	67
0.7 - 0.8	0.404	0.11D							0D	14		63
0.9 - 1	0.13A	-							0D	14		63
1.1 - 1.2	3A	0.08D							0D	12	23	63
Depth	COLE		Gravimetric/Volumetric Water Contents							at	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/s	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 1	5 Bar	mm	/h	mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.5 - 0.6 0.7 - 0.8 0.9 - 1 1.1 - 1.2

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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_CEC CEC - meq per 100g of soil - Not recorded

15_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

15G_C_AL1 Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B

19A1 Carbonates - rapid titration
2A1 Air-dry moisture content
3A1 EC of 1:5 soil/water extract
4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method

P10_PB_C
P10_PB_CS
Coarse sand (%) - Plummet balance
P10_PB_FS
P10_PB_Z
Clay (%) - Plummet balance
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance