Project Name: 1968 ISSS Congress Tour
Project Code: IS1 **Site ID:** A994 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	R.W. Jessup	**Locality:**	
Date Desc.:	01/10/66	**Elevation:**	No Data
Map Ref.:	Sheet No. : SG53-15 1:250000	**Rainfall:**	102
Northing/Long.:	135.267777777778	**Runoff:**	Moderately rapid
Easting/Lat.:	-27.9933333333333	**Drainage:**	Imperfectly 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:	Undulating plains <9m 3-10%	**Pattern Type:**	Plain
Morph. Type:	Lower-slope	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Gently inclined
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Gypsic Eutrophic Red Kandosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Mid Strata - Shrub, , . *Species includes - None recorded

Surface Coarse Fragments: 20-50%, cobbly, 60-200mm, , Silcrete

Profile Morphology

0 - 0.1 m	Red (2.5YR5/6-Dry); ; Clay loam; , Granular; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, Silcrete, coarse fragments; Diffuse change to -
0.1 - 0.65 m	Red (2.5YR4/6-Dry); ; Clay loam; Weak grade of structure, Granular; Strong consistence; 2-10%, Silcrete, coarse fragments; Diffuse change to -
0.65 - 0.85 m	Red (2.5YR4/6-Dry); ; Clay loam; Massive grade of structure; Strong consistence; Many (20 - 50 %), Gypseous, , ;
0.85 - 1.15 m	;
- m	;
- m	;
- m	;
- m	;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.3J 7.4A 6.7H	0.159A	15B	2.9	1.4	1.4		45J		3.11
0.1 - 0.2	6.6J 7.4A 7.2H	0.676A	22B	3.3	1.3	2				
0.2 - 0.3	7.1J 7.4A 7H	4.05A								
0.3 - 0.4	7.1J 7.4A 7.1H	5.41A								
0.4 - 0.5	7.2J 7.5A 7.1H	5.95A								
0.5 - 0.6	7.4J 7.7A 7.4H	5.95A								
0.6 - 0.7	7.5J 7.7A 7.5H	59.5A								
0.7 - 0.8	7.3J 7.5A 7.2H	127A								
0.85 - 1.15 - - - -										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.116A	22A	0.05A	0.021B	1.2A		33	11C	40	18	26
0.1 - 0.2				0.04A		1.3A		38	10C	33	12	46
0.2 - 0.3		0.116A	6A	0.04A	0.017B	1.2A		21	9C	33	11	42
0.3 - 0.4												
0.4 - 0.5		0.116A	7A	0.05A	0.016B	1.2A		4	9C	33	7	46
0.5 - 0.6												
0.6 - 0.7												
0.7 - 0.8		0.116A	14A	0.02A	0.007B	0.05A		6	2C	18	3	36
0.85 - 1.15 - - - -												

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h

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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
0.85 - 1.15
-
-
-
-

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4_NR	pH of soil - Not recorded
4A1	pH of 1:5 soil/water suspension
4B_C_2.5	pH of soil - pH of 1:2.5 Soil/0.1M CaCl2 suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
MIN_NR_K2O	Kaolin minerals
P10_GRAV	Gravel (%)
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
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction