1968 ISSS Congress Tour **Project Name:**

Project Code: Site ID: A974 Observation ID: 1 IS2

Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Locality: W.T. Ward

Desc. By: Date Desc.: Elevation: 08/06/66 73 metres

Sheet No. : SI54-13 Map Ref.: 1:250000 Rainfall: 0

Northing/Long.: 138.461111111111 Runoff: Very rapid Easting/Lat.: -35.327777777778 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Terrace (alluvial) Morph. Type: Elem. Type: No Data Relief: No Data No Data **Slope Category:** No Data No Data Slope: 0 % Aspect:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Melanic Eutrophic Black Dermosol Principal Profile Form: N/A **ASC Confidence: Great Soil Group:** Alluvial soil

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profil	e Morphology	
AC	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loam; Moderate grade of structure, Granular; Very weak consistence; Sharp change to -
AC	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; , Prismatic; Weak grade of structure, Subangular blocky; Very weak consistence;
AC	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; , Prismatic; Weak grade of structure, Subangular blocky; Weak consistence;
AC	0.3 - 0.45 m	Very dark grey (10YR3/1-Moist); ; Loam; , Prismatic; Moderate grade of structure, Subangular blocky; Weak consistence; Gradual change to -
ВС	0.45 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Weak grade of structure, Subangular blocky; Firm consistence; Gradual change to -
С	0.6 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Weak grade of structure, Subangular

Morphological Notes

Observation Notes

LAYERS 6 & 7 - STAINS IN FISSURES: 10YR22 LUMUS

blocky; Firm consistence;

Site Notes

WILLUNGA

1968 ISSS Congress Tour

IS2 Site ID: A CSIRO Division of Soils (SA) A974 Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:

-	C			Cations		xchangeable	CEC		CEC		ESP
	dS/m	a r	Иg	K	Na Cmol (+)/	Acidity					%
4.8J 6.4H	0.067C	15K	4	2.3	0.57						
4.5J 6.5H	0.057C	12K	5.2	0.58	0.63						
4.8J 5.9H	0.055C	11K	6.4	0.29	0.65						
5.2J 6.6H	0.038C	12K	9.3	0.36	1.1						
5.4J 6.8H	0.038C										
5.5J 7H	0.041C	9.4K	9.6	0.49	1.6						
CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article :	Size A FS		
%	%	mg/kg	%	%	%	Mg/m3			%		
		162C		-			1	1C	32	34	31
				_			-	_	_		27
		00		-	-		-	_		-	34
		90		0.1	2B		0	0C	23	29	47
				0.00	11 D		0	20	21	21	45
				0.08	710		U	20	31	21	45
COLE Gravimetric/Volumetric Wat						ents		K sa	t I	K unsa	t
			0.1 Bar	0.5 Bar	1 Bar	5 Bar 15 I	Rar				
	Sat.	0.05 Bar		g - m3/m3	3		- u.	mm/l	h	mm/h	
	6.4H 4.5J 6.5H 4.8J 5.9H 5.2J 6.6H 5.4J 7H CaCO3	6.4H 4.5J 0.057C 6.5H 4.8J 0.055C 5.9H 5.2J 0.038C 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 7H CaCO3 Organic C %	6.4H 4.5J 0.057C 12K 6.5H 4.8J 0.055C 11K 5.9H 5.2J 0.038C 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K CaCO3 Organic C P mg/kg 162C 9C	6.4H 4.5J 0.057C 12K 5.2 6.5H 4.8J 0.055C 11K 6.4 5.9H 5.2J 0.038C 12K 9.3 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 7H CaCO3 Organic Avail. Total P mg/kg % 162C 9C	6.4H 4.5J 0.057C 12K 5.2 0.58 6.5H 4.8J 0.055C 11K 6.4 0.29 5.9H 5.2J 0.038C 12K 9.3 0.36 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 0.49 CaCO3 Organic Avail. Total N 7H CaCO3 Organic Avail. Total N % mg/kg % % 162C 0.4 0.2 0.1 9C 0.09	6.4H 4.5J 0.057C 12K 5.2 0.58 0.63 6.5H 4.8J 0.055C 11K 6.4 0.29 0.65 5.9H 5.2J 0.038C 12K 9.3 0.36 1.1 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 0.49 1.6 CaCO3 Organic Avail. Total Total K 7H CaCO3 Organic P P N K 7 mg/kg % % % 162C 0.41B 0.2B 0.15B 9C 0.091B	6.4H 4.5J 0.057C 12K 5.2 0.58 0.63 6.5H 4.8J 0.055C 11K 6.4 0.29 0.65 5.9H 5.2J 0.038C 12K 9.3 0.36 1.1 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 0.49 1.6 CaCO3 Organic P P N K Density % % mg/kg % % % Mg/m3 162C 0.41B 0.2B 0.15B 9C 0.12B 0.091B	6.4H 4.5J 0.057C 12K 5.2 0.58 0.63 6.5H 4.8J 0.055C 11K 6.4 0.29 0.65 5.9H 5.2J 0.038C 12K 9.3 0.36 1.1 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 0.49 1.6 7H CaCO3 Organic Avail. Total Total Bulk Parameter Campaigness of Cacoo Mag/mg Way Way Way Mag/m3 162C 0.41B 1 0.28 0 0.15B 0 0.15B 0 0.091B 0	6.4H 4.5J 0.057C 12K 5.2 0.58 0.63 6.5H 4.8J 0.055C 11K 6.4 0.29 0.65 5.9H 5.2J 0.038C 12K 9.3 0.36 1.1 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 0.49 1.6 CaCO3 Organic	6.4H 4.5J 0.057C 12K 5.2 0.58 0.63 6.5H 4.8J 0.055C 11K 6.4 0.29 0.65 5.9H 5.2J 0.038C 12K 9.3 0.36 1.1 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 0.49 1.6 CaCO3 Organic Avail. Total Total Bulk Particle Size A	6.4H 4.5J 0.057C 12K 5.2 0.58 0.63 6.5H 4.8J 0.055C 11K 6.4 0.29 0.65 5.9H 5.2J 0.038C 12K 9.3 0.36 1.1 6.6H 5.4J 0.038C 6.8H 5.5J 0.041C 9.4K 9.6 0.49 1.6 7H CaCO3 Organic C P P N K Density GV CS FS Silt % % mg/kg % % % Mg/m3 162C 0.41B 1 1C 32 34 0.2B 0 1C 37 33 0.15B 0 2C 33 31 9C 0.091B 0 2C 31 21

^{0 - 0.1} 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.9

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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

2_LOI Loss on Ignition (%)
2A1 Air-dry moisture content

3A_TSS Electrical conductivity or soluble salts - Total soluble salts %

4_NR pH of soil - Not recorded

4B_C_2.5 pH of soil - pH of 1:2.5 Soil/0.1M CaCl2 suspension 5_NR Water soluble Chloride - Cl(%) - Not recordede

7_NR Total nitrogen (%) - Not recorded
9_NR Available P (mg/kg) - Not recorded

P10_GRAV Gravel (%)

P10_NR_C
P10_NR_CS
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10_NR_FS
P10_NR_Z
Clay (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded