

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SP2 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Coppi, John	Locality:	
Date Desc.:	26/05/70	Elevation:	No Data
Map Ref.:	Sheet No. : 6627 1:100000	Rainfall:	655
Northing/Long.:	138.55	Runoff:	No Data
Easting/Lat.:	-35.25	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Red-brown earth
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Brown (7.5YR4/2-Moist); ; Silty clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Strong consistence; 0-2%, coarse fragments;
0.1 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments;
0.2 - 0.3 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments;
0.3 - 0.4 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments;
0.4 - 0.5 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments;
0.5 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Yellowish red (5YR5/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Yellowish red (5YR5/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.9 - 1.2 m	;

Morphological Notes

Observation Notes

SP70/P3;DATA IS FROM BULK OF 8 CORES;

Site Notes

WILLUNGA

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	7I	0.18D								
0.1 - 0.2	6.7I	0.1D								
0.2 - 0.3	6.7I	0.12D								
0.3 - 0.4	6.9I	0.13D								
0.4 - 0.5	7.1I	0.16D								
0.5 - 0.6	7.8I	0.38D								
0.6 - 0.7	8I	0.36D								
0.7 - 0.8	8.3I	0.31D								
0.8 - 0.9	8.5I	0.3D								
0.9 - 1	8.6I	0.3D								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1					0.078A				4C	45	29	22
0.1 - 0.2					0.063A				3C	31	27	39
0.2 - 0.3					0.068A							
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6	2C				0.054A							
0.6 - 0.7	2.4C											
0.7 - 0.8	5.3C											
0.8 - 0.9	9.8C											
0.9 - 1	11.4C				0.038A				2C	17	18	48

[illegible]

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
2A1	Air-dry moisture content
3_C_B	Electrical conductivity or soluble salts - Total soluble salts %
4A_C_2.5	pH of soil - pH of 1:2.5 soil/water suspension
5_C_B	Water soluble Chloride - Method recorded as B
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
MIN_EC	Exchange Capacity - Minerology
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_II	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