

**Project Name:** National Soil Fertility  
**Project Code:** NSF **Site ID:** SW48 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	Coppi, John	<b>Locality:</b>	
<b>Date Desc.:</b>	26/06/70	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 6629 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	138.75	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-34.25	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
N/A		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Massive grade of structure; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Strong consistence; 0-2%, coarse fragments;
0.2 - 0.3 m	Yellowish red (5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong consistence; 0-2%, coarse fragments; Soil matrix is Moderately calcareous;
0.3 - 0.4 m	Yellowish red (5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong consistence; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous;
0.4 - 0.5 m	Yellowish red (5YR5/8-Moist); ; Light clay; Massive grade of structure; Strong consistence; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous;
0.5 - 0.6 m	White (2.5Y8/2-Moist); ; Light clay; Massive grade of structure; Strong consistence; 0-2%, coarse fragments; Soil matrix is Moderately calcareous;
0.6 - 0.7 m	White (2.5Y8/2-Moist); ; Light clay; Massive grade of structure; Strong consistence; 0-2%, coarse fragments; Soil matrix is Moderately calcareous;
0.7 - 0.8 m	White (2.5Y8/2-Moist); , 10YR66; Light clay; Massive grade of structure; Strong consistence; 0-2%, coarse fragments; Soil matrix is Moderately calcareous;
0.8 - 0.9 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Massive grade of structure; Strong consistence; 0-2%, coarse fragments;
0.9 - 1 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Massive grade of structure; Strong consistence; 0-2%, coarse fragments;

**Morphological Notes**

**Observation Notes**

SW70/W28; DATA IS FROM BULK OF 8 CORES;

**Site Notes**

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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	7.7I	0.32D								
0.1 - 0.2	8.3I	0.26D								
0.2 - 0.3	8.7I	0.31D								
0.3 - 0.4	9.4I	0.71D								
0.4 - 0.5	9.3I	0.6D								
0.5 - 0.6	9I	0.45D								
0.6 - 0.7	9.5I	0.81D								
0.7 - 0.8	9.6I	0.82D								
0.8 - 0.9	9.5I	0.94D								
0.9 - 1	9.5I	0.97D								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1					0.12A				8C	37	20	32
0.1 - 0.2	3.8C				0.095A				5C	27	21	41
0.2 - 0.3	18.6C				0.093A							
0.3 - 0.4	33.9C											
0.4 - 0.5	44.5C											
0.5 - 0.6	39.4C				0.073A							
0.6 - 0.7	21.1C											
0.7 - 0.8	31.1C											
0.8 - 0.9	21.4C											
0.9 - 1	19.1C				0.023A				4C	21	28	27

[illegible]

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**Laboratory Analyses Completed for this profile**

19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - 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_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_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction