

**Project Name:** National Soil Fertility  
**Project Code:** NSF **Site ID:** SW32 **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>	16/04/70	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 6231 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	136.833333333333	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-33.5	<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>	Gc1.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solonized brown soil
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous;
0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous;
0.2 - 0.3 m	Reddish yellow (5YR6/6-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Very many (50 - 100 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.3 - 0.4 m	Reddish yellow (5YR6/6-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Very many (50 - 100 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Reddish yellow (5YR6/6-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Reddish yellow (5YR6/6-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Reddish yellow (5YR6/6-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Nodules;

**Morphological Notes**

**Observation Notes**

ORIGINALLY SW70/W9; DATA IS FROM BULK OF 8 CORES;

**Site Notes**

COWELL

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.1	8.3I	0.6D							
0.1 - 0.2	8.5I	0.23D							
0.2 - 0.3	9.4I	0.36D							
0.3 - 0.4	9.9I	0.61D							
0.4 - 0.5	9.8I	0.63D							
0.5 - 0.6	9.9I	0.83D							
0.6 - 0.7	9.9I	0.93D							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
								GV	CS		FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0.7C				0.114A							
0.1 - 0.2	2.5C				0.093A				32C	37	10	18
0.2 - 0.3	22C				0.063A				25C	28	5	20
0.3 - 0.4	47C											
0.4 - 0.5	51C											
0.5 - 0.6	56C				0.015A							
0.6 - 0.7	43.8C				0.013A				15C	18	6	18

[illegible]

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**Laboratory Analyses Completed for this profile**

19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
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_Ill	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