

**Project Name:** National Soil Fertility  
**Project Code:** NSF **Site ID:** SW44 **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>	27/04/70	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 6631 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	138.633333333333	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-33	<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>	Dr2.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red-brown earth
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Yellowish red (5YR4/6-Moist); ; Loam; Massive grade of structure; Weak consistence; 2-10%, Quartz, coarse fragments;
0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); ; Loam; Massive grade of structure; Weak consistence; 10-20%, Quartz, coarse fragments;
0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Loam; Massive grade of structure; Weak consistence; 10-20%, Quartz, coarse fragments;
0.3 - 0.4 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.4 - 0.5 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.5 - 0.6 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.6 - 0.7 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.7 - 0.8 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is Moderately
0.8 - 0.9 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Very strong consistence; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is Moderately
0.9 - 1.2 m	;

**Morphological Notes**

**Observation Notes**

ORIGINALLY SW70/W24; DATA IS FROM BULK OF 8 CORES;

**Site Notes**

JAMESTOWN

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Exchangeable K	Exchangeable Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6.8I	0.16D								
0.1 - 0.2	7.1I	0.11D								
0.2 - 0.3	7.8I	0.18D								
0.3 - 0.4	7.1I	0.26D								
0.4 - 0.5	8.5I	0.35D								
0.5 - 0.6	8.7I	0.5D								
0.6 - 0.7	8.9I	0.61D								
0.7 - 0.8	8.9I	0.74D								
0.8 - 0.9	8.8I	0.92D								
0.9 - 1	8.8I	1.02D								

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					0.069A				22C	50	11	15
0.1 - 0.2					0.04A							
0.2 - 0.3					0.07A							
0.3 - 0.4									6C	12	8	70
0.4 - 0.5												
0.5 - 0.6	2.1C				0.05A							
0.6 - 0.7	8.9C											
0.7 - 0.8	9.3C											
0.8 - 0.9	4.5C											
0.9 - 1	3.4C				0.023A				18C	28	8	40

[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_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