

**Project Name:** National Soil Fertility  
**Project Code:** NSF **Site ID:** SW45 **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>	138.666666666667	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-33.35	<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>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Dr2.23
		<b>Great Soil Group:</b>	Red-brown earth

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Strong grade of structure, 2-5 mm; Very strong consistence;
0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, coarse fragments;
0.3 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, coarse fragments;
0.4 - 0.5 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, coarse fragments;
0.5 - 0.6 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Red (2.5YR4/8-Moist); ; Heavy clay; Strong grade of structure, <2 mm; Very strong consistence; 2-10%, coarse fragments; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Red (2.5YR4/8-Moist); ; Heavy clay; Strong grade of structure, <2 mm; Very strong consistence; 20-50%, coarse fragments; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Yellowish red (5YR5/8-Moist); ; Heavy clay; Strong grade of structure, <2 mm; Very strong consistence; 20-50%, coarse fragments; Soil matrix is Highly calcareous;
0.9 - 1 m	Yellowish red (5YR5/8-Moist); ; Heavy clay; Strong grade of structure, <2 mm; Strong consistence; 50-90%, coarse fragments; Soil matrix is Highly calcareous;

**Morphological Notes**

**Observation Notes**

SW70/W25; 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	6.9I	0.19D								
0.1 - 0.2	7.1I	0.08D								
0.2 - 0.3	8I	0.28D								
0.3 - 0.4	8.2I	0.34D								
0.4 - 0.5	8.5I	0.3D								
0.5 - 0.6	8.9I	0.43D								
0.6 - 0.7	8.8I	0.56D								
0.7 - 0.8	8.8I	0.83D								
0.8 - 0.9	8.6I	1.07D								
0.9 - 1	8.2I	2.47D								

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	0C				0.108A				8C	54	16	22
0.1 - 0.2	0C				0.068A				8C	55	14	23
0.2 - 0.3	0.4C				0.78A							
0.3 - 0.4	0.4C											
0.4 - 0.5	0.6C											
0.5 - 0.6	5C				0.07A							
0.6 - 0.7	15.2C											
0.7 - 0.8	22.9C											
0.8 - 0.9	35.4C											
0.9 - 1	25.5C				0.033A				4C	23	14	32

[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_Qz	Quartz - X-Ray Diffraction