Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW53 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Coppi, John
Date Desc.: 06/07/70
Map Ref.: Sheet No. : 6629 1:100000
Northing/Long.: 138.733333333333
Easting/Lat.: -34.3666666666667
Locality:
Elevation: No Data
Rainfall: 0
Runoff: No Data
Drainage: No Data

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Weak grade of structure, 2-5 mm; Weak consistence; 0-2%, coarse fragments;
0.1 - 0.2 m	Dark yellowish brown (10YR3/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, coarse fragments;
0.2 - 0.3 m	Dark yellowish brown (10YR3/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.3 - 0.4 m	Reddish yellow (5YR6/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Reddish yellow (5YR6/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Reddish yellow (5YR6/8-Moist); ; Light clay; Strong grade of structure, 10-20 mm; 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; 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; 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; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;
0.9 - 1 m	Yellowish red (5YR5/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, coarse fragments; Soil matrix is Highly calcareous;

Morphological Notes

Observation Notes

ORIGINALLY SW70/W33;

Site Notes

HAMLEY BRIDGE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	8l	0.21D								
0.1 - 0.2	8.2l	0.3D								
0.2 - 0.3	8.6l	0.36D								
0.3 - 0.4	9.1l	0.37D								
0.4 - 0.5	9.3l	0.55D								
0.5 - 0.6	9.3l	0.72D								
0.6 - 0.7	9.4l	0.85D								
0.7 - 0.8	9.4l	0.97D								
0.8 - 0.9	9.4l	1.14D								
0.9 - 1	9.3l	1.18D								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0C				0.063A				22C	57	6	13
0.1 - 0.2	0.5C				0.056A				17C	42	4	34
0.2 - 0.3	11.4C				0.056A							
0.3 - 0.4	27.1C											
0.4 - 0.5	30.6C											
0.5 - 0.6	29.4C				0.015A							
0.6 - 0.7	20.2C											
0.7 - 0.8	14.4C											
0.8 - 0.9	8.2C											
0.9 - 1	5.3C				0.007A				9C	32	7	38

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.5 - 0.6									
0.6 - 0.7									
0.7 - 0.8									
0.8 - 0.9									
0.9 - 1									

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - 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