

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW49 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Coppi, John	Locality:	
Date Desc.:	03/07/70	Elevation:	No Data
Map Ref.:	Sheet No. : 6629 1:100000	Rainfall:	0
Northing/Long.:	138.65	Runoff:	No Data
Easting/Lat.:	-34.3	Drainage:	No Data

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.23
		Great Soil Group:	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, 5-10 mm, Subangular blocky; Very strong consistence; 0-2%, Quartz, coarse fragments;
0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence; 0-2%, coarse fragments;
0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong consistence; 0-2%, coarse fragments;
0.3 - 0.4 m	Very pale brown (10YR8/4-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Very pale brown (10YR8/4-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	Very pale brown (10YR7/4-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Very pale brown (10YR7/4-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Very pale brown (10YR7/4-Moist); ; Light clay; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 1.1 m	;

Morphological Notes

Observation Notes

SW70/W29; DATA IS FROM BULK OF 8 CORES;

Site Notes

HAMLEY BRIDGE

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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	0.34D								
0.1 - 0.2	8I	0.19D								
0.2 - 0.3	8.3I	0.14D								
0.3 - 0.4	8.5I	0.15D								
0.4 - 0.5	8.6I	0.14D								
0.5 - 0.6	8.9I	0.16D								
0.6 - 0.7	9.1I	0.19D								
0.7 - 0.8	9.5I	0.24D								
0.8 - 0.9	9.5I	0.33D								
0.9 - 1	9.6I	0.39D								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1					0.105A				14C	37	12	34
0.1 - 0.2	0.6C				0.069A				12C	33	9	39
0.2 - 0.3	6.7C				0.058A							
0.3 - 0.4	33.2C											
0.4 - 0.5	46.3C											
0.5 - 0.6	50.3C				0.025A							
0.6 - 0.7	46.4C											
0.7 - 0.8	47.2C											
0.8 - 0.9	44.4C											
0.9 - 1	41.7C				0.013A				8C	20	5	25

[illegible]

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO ₃) - 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_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