

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW54 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Coppi, John	Locality:	
Date Desc.:	06/07/70	Elevation:	No Data
Map Ref.:	Sheet No. : 6428 1:100000	Rainfall:	0
Northing/Long.:	137.8	Runoff:	No Data
Easting/Lat.:	-34.5333333333333	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:	Gc1.22
		Great Soil Group:	Solonized brown soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Firm consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly
0.3 - 0.4 m	Reddish yellow (7.5YR8/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is Highly
0.4 - 0.5 m	Reddish yellow (7.5YR8/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Reddish yellow (7.5YR8/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Reddish yellow (7.5YR8/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Reddish yellow (7.5YR8/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Reddish yellow (7.5YR8/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 1.2 m	;

Morphological Notes

Observation Notes

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Site Notes

MAITLAND

ORIGINALLY SW70/W35; DATA IS FROM BULK OF 8 CORES;

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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	8.2I	0.39D								
0.1 - 0.2	8.5I	0.22D								
0.2 - 0.3	8.6I	0.17D								
0.3 - 0.4	8.8I	0.17D								
0.4 - 0.5	9I	0.18D								
0.5 - 0.6	9.2I	0.23D								
0.6 - 0.7	9.4I	0.29D								
0.7 - 0.8	9.5I	0.38D								
0.8 - 0.9	9.6I	0.43D								
0.9 - 1	9.5I	0.55D								

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	7.3C				0.158A				29C	21	6	27
0.1 - 0.2	25C				0.065A				20C	12	1	29
0.2 - 0.3	45C				0.05A							
0.3 - 0.4	58.4C											
0.4 - 0.5	60.8C											
0.5 - 0.6	57.9C				0.019A							
0.6 - 0.7	45.6C											
0.7 - 0.8	46.6C											
0.8 - 0.9	37.2C											
0.9 - 1	20.7C				0.009A				30C	10	1	28

[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_Mm	Montmorillonite - X-Ray Diffraction