

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SP12 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Thompson, Jim	Locality:	
Date Desc.:	21/12/71	Elevation:	No Data
Map Ref.:	Sheet No. : 7024 1:100000	Rainfall:	650
Northing/Long.:	140.95	Runoff:	No Data
Easting/Lat.:	-37.1333333333333	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	2 %	Aspect:	0 degrees

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:	Dy3.23
		Great Soil Group:	Siliceous sand

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Brown (10YR4/3-Moist); , 0-0% ; , 0-0% ; Loamy sand; Massive grade of structure; Very weak consistence;
0.1 - 0.15 m	Brown (10YR5/3-Moist); , 0-0% ; , 0-0% ; Loamy sand; Massive grade of structure; Very weak consistence;
0.15 - 0.2 m	Dark brown (10YR3/3-Moist); , 5YR48, 2-10% , Faint; , 2-10% , Faint; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence;
0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); , 5YR48, 10-20% , Faint; , 10-20% , Faint; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence;
0.3 - 0.4 m	Brown (10YR4/3-Moist); , 0-0% ; , 0-0% ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence;
0.4 - 0.5 m	Brown (10YR4/3-Moist); , 0-0% ; , 0-0% ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence;
0.5 - 0.6 m	Brown (10YR4/3-Moist); , 10YR82, 2-10% , Faint; , 2-10% , Faint; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous;
0.6 - 0.7 m	Brown (10YR5/3-Moist); , 10YR83, 10-20% , Faint; , 5YR48, 10-20% , Faint; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; 2-10%, Gravel, coarse fragments; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	White (2.5Y8/2-Moist); , 10YR43, 10-20% , Faint; , 10-20% , Faint; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Strong consistence; 2-10%, Gravel, coarse fragments; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	White (2.5Y8/2-Moist); , 10YR54, 10-20% , Faint; , 10-20% , Faint; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Strong consistence; 2-10%, Gravel, coarse fragments; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 0.95 m	White (2.5Y8/2-Moist); , 2.5Y42, 10-20% , Faint; , 10YR54, 10-20% , Faint; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Strong consistence; 2-10%, Gravel, coarse fragments; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;

Morphological Notes

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Observation Notes

SP71/P4; MORPHOLOGY FROM CORE NO.7; CHEMICAL DATA FROM BULK OF CORES 3-9;

Site Notes

WRATIONBULLY

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.1	5.8I	0.11D								
0.1 - 0.15	6.3I	0.09D								
0.15 - 0.2	6.3I	0.129D								
0.2 - 0.3	6.8I	0.36D								
0.3 - 0.4	7.5I	0.62D								
0.4 - 0.5	8I	0.77D								
0.5 - 0.6	8.9I	0.92D								
0.6 - 0.7	9.1I	0.94D								
0.7 - 0.8	9.2I	0.89D								
0.8 - 0.9	9I	1.11D								
0.9 - 0.95	8.9I	1.27D								

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					0.139A				18C	61	10	9
0.1 - 0.15					0.04A				12C	43	11	34
0.15 - 0.2					0.055A							
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6	2.5C				0.022A							
0.6 - 0.7	17.2C											
0.7 - 0.8	9.1C											
0.8 - 0.9	3.6C											
0.9 - 0.95	6.5C				0.013A				7C	33	11	39

[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 - Mineralogy
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
XRD_C_Qz	Quartz - X-Ray Diffraction