

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW60 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	G.C. Kay	Locality:	Freeling
Date Desc.:	31/07/67	Elevation:	No Data
Map Ref.:	Sheet No. : 178738 1:10000	Rainfall:	No Data
Northing/Long.:	138.8166666	Runoff:	No Data
Easting/Lat.:	-34.483333 Datum: AGD66	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

Erosion:

Soil Classification

Australian Soil Classification:
N/A

Mapping Unit: N/A
Principal Profile Form: Ug6.34
Great Soil Group: Red clay

ASC Confidence:
Confidence level not specified

Site

Vegetation:

Surface Coarse

Profile

A	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Weak grade of structure, <2 mm; 0-2%, coarse
		fragments; Abrupt change to -
B	0.1 - 0.2 m	Dark reddish brown (5YR3/2-Moist); ; Light clay; Moderate grade of structure, 2-5 mm; 0-2%, coarse
		fragments; Gradual change to -
	0.2 - 0.3 m	Very dark grey (5YR3/1-Moist); ; Light clay; Moderate grade of structure, 5-10 mm; 0-2%, coarse
		fragments; Gradual change to -
	0.3 - 0.4 m	Very dark grey (5YR3/1-Moist); ; Light clay; Moderate grade of structure, 5-10 mm; 0-2%, coarse
		fragments; Gradual change to -
	0.4 - 0.5 m	Very dark grey (5YR3/1-Moist); ; Light clay; Moderate grade of structure, 5-10 mm; 0-2%, coarse
		fragments; Gradual change to -
	0.5 - 0.6 m	Very dark grey (5YR3/1-Moist); Pinkish yellow (7.5YR8/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm; 0-2%, coarse fragments; Gradual change to -
	0.6 - 0.7 m	Very dark grey (5YR3/1-Moist); Pinkish yellow (7.5YR8/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm; 0-2%, coarse fragments; Gradual change to -
	0.7 - 0.8 m	Very dark grey (5YR3/1-Moist); Pinkish yellow (7.5YR8/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm; 0-2%, coarse fragments; Gradual change to -
	0.8 - 0.9 m	Very dark grey (5YR3/1-Moist); Pinkish yellow (7.5YR8/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm; 0-2%, coarse fragments; Gradual change to -
	0.9 - 1 m	Very dark grey (5YR3/1-Moist); Pinkish yellow (7.5YR8/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm; 0-2%, coarse fragments;

Morphological Notes

Observation Notes

unpublished; previously SA67/W2; chemistry bulk of 8 cores

Site Notes

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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	8.1I	0.28D								
0.1 - 0.2	8.3I	0.21D								
0.2 - 0.3	8.5I	0.24D								
0.3 - 0.4	8.9I	0.28D								
0.4 - 0.5	9.1I	0.36D								
0.5 - 0.6	9.3I	0.42D								
0.6 - 0.7	9.4I	0.55D								
0.7 - 0.8	9.4I	0.73D								
0.8 - 0.9	9.4I	0.92D								
0.9 - 1	9.4I	1.09D								

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1	6.6C				0.168A			4C 29 7
43								
0.1 - 0.2	10.6C				0.118A			
0.2 - 0.3	11.8C				0.079A			
0.3 - 0.4	12.1C							4C 25 8
43								
0.4 - 0.5	13C							
0.5 - 0.6	14.6C				0.05A			
0.6 - 0.7	17.6C							
0.7 - 0.8	16.2C							
0.8 - 0.9	15C							
0.9 - 1	11.4C				0.02A			4C 23 8
42								

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