Project Name: National Soil Fertility
Project Code: NSF **Site ID:** NW30 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:		**Locality:**	
Date Desc.:	//	**Elevation:**	198 metres
Map Ref.:		**Rainfall:**	0
Northing/Long.:	146.666666666667	**Runoff:**	No Data
Easting/Lat.:	-34.1166666666667	**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:	0 %	**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: Gn2.13
Great Soil Group: Calcareous red earth

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); ; Loam; Massive grade of structure; Gradual change to -
B1	0.2 - 0.45 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure;
B21	0.45 - 0.55 m	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure;
B22	0.55 - 0.9 m	Dark red (10R3/6-Moist); ; Light clay; Massive grade of structure;
B23k	0.9 - 1 m	Dark red (10R3/6-Moist); ; Light clay; Massive grade of structure; , Manganiferous, , Veins; Few (2 - 10 %), Calcareous, , Soft segregations;
B23k	1 - 1.1 m	Dark red (10R3/6-Moist); ; Light clay; Massive grade of structure; , Manganiferous, , Veins; Few (2 - 10 %), Calcareous, , Soft segregations;
	1.1 - 1.4 m	;

Morphological Notes

Observation Notes

ORIGINALLY N70/W5

Site Notes

BARELLAN

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Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.9I	0.11D	5.9K	2	1.3	0.14				
0.1 - 0.2	5.3I	0.13D	5K	1.9	0.76	0.1				
0.2 - 0.3	5.6I	0.08D	4.3K	2.1	0.53	0.2				
0.3 - 0.4	6.4I	0.08D	6.1K	3.8	0.7	0.65				
0.4 - 0.5	7.4I	0.6D	16.2K	6.5	1	1.5				
0.5 - 0.6	7.7I	0.94D	14.4K	7.8	1.3	2.1				
0.6 - 0.7	8I	0.55D	14.4K	8.6	1.5	2.5				
0.7 - 0.8	8.2I	0.58D	16K	9.2	1.6	3				
0.8 - 0.9	8.3I	0.68D	20K	9.6	1.6	3.4				
0.9 - 1	8.3I	0.76D	18K	9.6	1.7	4				

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		1.18A	9.2A									
0.1 - 0.2		0.56A	3.5A									
0.2 - 0.3		0.54A	2.6A									
0.3 - 0.4		0.44A	2A									
0.4 - 0.5		0.36A	2.5A									
0.5 - 0.6		0.24A	1.8A									
0.6 - 0.7		0.17A	1.4A									
0.7 - 0.8		0.12A	1.2A									
0.8 - 0.9		0.13A	1A									
0.9 - 1		0.1A	2A									

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										

Laboratory Test Results:

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Project Code: **NSF** **Site ID:** **NW30** **Observation ID:** **1**
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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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
6A1	Organic carbon - Walkley and Black
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable