

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0112 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	08/06/95	Elevation:	330 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6273030 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	609340 Datum: AGD84	Drainage:	Well drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	90 degrees

Surface Soil Condition Firm

Erosion (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mottled-Mesonatric Brown Sodosol		Principal Profile Form:	Dy5.62
ASC Confidence:		Great Soil Group:	N/A

All necessary analytical data are available.

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subrounded, ; 0-2%, , subrounded,

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field pH 6
		(Raupach); Abrupt, Wavy change to -
A21	0.1 - 0.3 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Wet; 10-
		20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -
A22c	0.3 - 0.4 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Single grain grade of structure; Wet; 20-50%, fine
		gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, ,
		coarse fragments; Field pH 7 (Raupach); Abrupt change to -
B21c	0.4 - 0.5 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Clay loam, sandy;
		Massive grade of structure; Moderately moist; Field pH 7 (Raupach);
B22	0.5 - 0.8 m	Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR46, 10-20% , 0-5mm, Distinct; Clay loam, sandy; Massive
		grade of structure; Dry; Field pH 7 (Raupach); Gradual change to -
B3	0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); Mottles, 10YR73, 2-10% , 15-30mm, Distinct; , 2.5YR46, 10-20% , 5-
		15mm, Distinct; Light medium clay; Weak grade of structure; Dry; Field pH 8 (Raupach);

Morphological Notes

A21	Medium to coarse sand.
A22c	Medium to coarse sand.
B21c	> 20% gravel - very slight dispersion.
B3	Very slight dispersion.

Observation Notes

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	4.7B									
0.15 - 0.25	4.6B									
0.4 - 0.6	5.9B	14B	0.96A	2.66	0.06	0.91			4.59D	
	6.5H		0.96A	2.66	0.06	0.91			4.59D	
	5.9B									
	6.5H									
0.4 - 0.6	5.9B	14B	0.96A	2.66	0.06	0.91			4.59D	
	6.5H		0.96A	2.66	0.06	0.91			4.59D	
	5.9B									
	6.5H									
0.4 - 0.5	5.8B									
0.4 - 0.6	5.9B	14B	0.96A	2.66	0.06	0.91			4.59D	
	6.5H		0.96A	2.66	0.06	0.91			4.59D	
	5.9B									
	6.5H									
0.4 - 0.6	5.9B	14B	0.96A	2.66	0.06	0.91			4.59D	
	6.5H		0.96A	2.66	0.06	0.91			4.59D	
	5.9B									
	6.5H									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1								
0.15 - 0.25								
0.4 - 0.6								62I 5.5
32.5								62I 5.5
								32.5
0.4 - 0.6								62I 5.5
32.5								62I 5.5
								32.5
0.4 - 0.5								62I 5.5
0.4 - 0.6								62I 5.5
32.5								62I 5.5
								32.5
0.4 - 0.6								62I 5.5
32.5								62I 5.5
								32.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15J_BASES	Sum of Bases

15L1_a
Sum of Cations

Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
and measured clay

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15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded