

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0277 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	25/07/95	Elevation:	375 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6292090 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	613820 Datum: AGD84	Drainage:	Imperfectly drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	180 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Mottled-Mesonatric Yellow Sodosol	Principal Profile Form:	Dy5.42
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

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

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field
		pH 6 (Raupach); Sharp, Smooth change to -
A2e	0.12 - 0.4 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Field
		pH 6.5 (Raupach); Abrupt change to -
B21	0.4 - 0.5 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR58, 10-20% , 15-30mm, Distinct; , 2.5YR46, 10-
		20% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moist; 10-
		20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Clear change to -
B22	0.5 - 0.7 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR72, 2-10% , 5-15mm, Distinct; , 2.5YR46, 0-2% , 5-
		15mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 7
		(Raupach);
B3	0.7 - 0.8 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Light medium clay; Massive grade of structure; Dry; Field pH
		7.5 (Raupach);

Morphological Notes

B22 Very slight dispersion.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	4.6B								
0.15 - 0.25	5.2B								
0.4 - 0.6	5.9B	12B	1.71A	3.79	0.03	1.16		6.69D	
	6.9H		1.71A	3.79	0.03	1.16		6.69D	
	5.9B								
	6.9H								
0.4 - 0.6	5.9B	12B	1.71A	3.79	0.03	1.16		6.69D	
	6.9H		1.71A	3.79	0.03	1.16		6.69D	
	5.9B								
	6.9H								
0.4 - 0.5	6B								
0.4 - 0.6	5.9B	12B	1.71A	3.79	0.03	1.16		6.69D	
	6.9H		1.71A	3.79	0.03	1.16		6.69D	
	5.9B								
	6.9H								
0.4 - 0.6	5.9B	12B	1.71A	3.79	0.03	1.16		6.69D	
	6.9H		1.71A	3.79	0.03	1.16		6.69D	
	5.9B								
	6.9H								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1									
0.15 - 0.25									
0.4 - 0.6		0.22D						58I	3
39									
		0.22D						58I	3
		39							
0.4 - 0.6		0.22D						58I	3
39									
		0.22D						58I	3
		39							
0.4 - 0.5									
0.4 - 0.6		0.22D						58I	3
39									
		0.22D						58I	3
		39							
0.4 - 0.6		0.22D						58I	3
39									
		0.22D						58I	3
		39							

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	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

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15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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