

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0415 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	31/08/95	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6244400 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	636600 Datum: AGD84	<b>Drainage:</b>	Moderately well drained

#### Geology

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

#### Landform

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

<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	180 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Eutrophic Mesonatric Brown Sodosol	<b>Principal Profile Form:</b>	Dy2.11
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.		

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

#### Vegetation

**Surface Coarse Fragments** 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.12 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Weak
		consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6
		(Raupach); Abrupt, Wavy change to -
B21	0.12 - 0.35 m	Brown (10YR5/3-Moist); , 0-0% ; Heavy clay; Moderate grade of structure; Rough-ped fabric; Dry;
		Strong consistence; Field pH 6.5 (Raupach); Abrupt change to -
B22	0.35 - 0.5 m	Pale brown (10YR6/3-Moist); Mottles, 10YR58, 0-2% , 0-5mm, Distinct; Medium clay; Strong grade of
		structure; Smooth-ped fabric; Dry; Strong consistence; Field pH 5.5 (Raupach); Clear change to -
B23	0.5 - 0.6 m	Very pale brown (10YR7/3-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Medium clay; Moderate
		grade of structure; Smooth-ped fabric; Dry; Strong consistence; Field pH 5.5 (Raupach);

#### Morphological Notes

B22 Kaolinitic clay.  
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#### Observation Notes

#### Site Notes

Barley grass dominated pasture.

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
				Mg		Acidity			

m	dS/m		Cmol (+)/kg					%
0 - 0.12	5.7B 6.6H	20B	5.25A	2.66	0.4	0.82		9.13D
0 - 0.12	5.7B 6.6H	20B	5.25A	2.66	0.4	0.82		9.13D
0 - 0.12	5.7B 6.6H	20B	5.25A	2.66	0.4	0.82		9.13D
0.12 - 0.32	6B 7H	25B	2.92A	3.84	0.4	1.86		9.02D
0.12 - 0.32	6B 7H	25B	2.92A	3.84	0.4	1.86		9.02D
0.12 - 0.32	6B 7H	25B	2.92A	3.84	0.4	1.86		9.02D

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 - 0.12		2.48D						78.5I	9.5
12									
0 - 0.12		2.48D						78.5I	9.5
12									
0 - 0.12		2.48D						78.5I	9.5
12									
0.12 - 0.32		0.93D						50.5I	8
41.5									
0.12 - 0.32		0.93D						50.5I	8
41.5									
0.12 - 0.32		0.93D						50.5I	8
41.5									

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	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	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