

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0446 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	14/09/95	<b>Elevation:</b>	340 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6268830 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	632800 Datum: AGD84	<b>Drainage:</b>	Imperfectly 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>	Mid-slope	<b>Relief:</b>	15 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	90 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 Mottled-Mesonatric Yellow Sodosol	<b>Principal Profile Form:</b>	Dy3.42
<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** 2-10%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field pH 5.5
		(Raupach); Abrupt, Smooth change to -
A2e	0.1 - 0.14 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Field
		pH 6.5 (Raupach); Abrupt, Wavy change to -
B21	0.14 - 0.3 m	Brownish yellow (10YR6/6-Moist); Mottles, 5YR46, 10-20% , 5-15mm, Distinct; Sandy medium clay;
		Moderate grade of structure, Columnar; Rough-ped fabric; Moderately moist; Field pH 7.5 (Raupach);
		Clear change to -
B22	0.3 - 0.55 m	Pale yellow (2.5Y7/3-Moist); Mottles, 7.5YR66, 2-10% , 5-15mm, Faint; Sandy medium clay; Moderate
		grade of structure; Rough-ped fabric; Moderately moist; Field pH 8 (Raupach); Clear change to -
C	0.55 - 0.9 m	White (2.5Y8/2-Moist); , 0-0% ; Light medium clay; Weak grade of structure; Rough-ped fabric;
		Moderately moist; Field pH 7.5 (Raupach);

#### Morphological Notes

A2e	Depth to clay varies from 14-20cm.
C	Kaolinitic clay.

#### Observation Notes

#### Site Notes

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#### Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.8B									
0.14 - 0.34	6.5B	25B	1.33A	5.26	0.21	2.82			9.62D	
	7.5H									
0.14 - 0.34	6.5B	25B	1.33A	5.26	0.21	2.82			9.62D	
	7.5H									
0.15 - 0.25	6B									
0.4 - 0.5	6.9B									

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS %	Analysis Silt
0 - 0.1										
0.14 - 0.34		0.35D						61.5I		2.5
0.14 - 0.34		0.35D						61.5I		2.5
0.15 - 0.25										
0.4 - 0.5										

#### 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
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