

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0324 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	01/08/95	<b>Elevation:</b>	310 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6243580 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	607780 Datum: AGD84	<b>Drainage:</b>	Poorly 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>	Crest	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Summit surface	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition** Hardsetting, Hardsetting

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

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Hypocalcic Mottled-Hypernatric Yellow Sodosol	<b>Principal Profile Form:</b>	Dy3.43
<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; 2-10%, , angular, Quartz

**Profile Morphology**

A1	0 - 0.08 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Wet; Field pH 6
		(Raupach); Abrupt, Wavy change to -
A2e	0.08 - 0.1 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH
		6.5 (Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR56, 10-20% , 15-30mm, Distinct; Sandy light
		medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 6.5 (Raupach);
		Clear change to -
B22	0.3 - 0.5 m	Pale yellow (2.5Y7/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped
		fabric; Dry; Field pH 8 (Raupach); Gradual change to -
B23	0.5 - 0.6 m	Light grey (2.5Y7/2-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped
		fabric; Dry; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

"Hardsetting grey clay".

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		Mg K	Cmol (+)/kg				%

0 - 0.08	5B 6.2H	9B	2.38H	1.2	0.25	0.25	0.08J	4.08D
0 - 0.08	5B 6.2H	9B	2.38H	1.2	0.25	0.25	0.08J	4.08D
0 - 0.08	5B 6.2H	9B	2.38H	1.2	0.25	0.25	0.08J	4.08D
0.1 - 0.3	5.1B 6.4H	13B	1.33H	3.75	0.06	2.04	0.03J	7.18D
0.1 - 0.3	5.1B 6.4H	13B	1.33H	3.75	0.06	2.04	0.03J	7.18D
0.1 - 0.3	5.1B 6.4H	13B	1.33H	3.75	0.06	2.04	0.03J	7.18D

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 - 0.08 9.5		1.52D						84I 6.5
0 - 0.08 9.5		1.52D						84I 6.5
0 - 0.08 9.5		1.52D						84I 6.5
0.1 - 0.3 26		0.42D						67.5I 6.5
0.1 - 0.3 26		0.42D						67.5I 6.5
0.1 - 0.3 26		0.42D						67.5I 6.5

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM/R	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
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