

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0359 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	07/08/95	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6243080 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	603480 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>	10 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<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
Hypocalcic Mesonatric Brown Sodosol	<b>Principal Profile Form:</b>	Dy2.43
<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%, , subangular, Gneiss

**Profile Morphology**

A1	0 - 0.12 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist;
		Field pH 6 (Raupach); Abrupt, Smooth change to -
A2e	0.12 - 0.2 m	Light grey (10YR7/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moderately moist; Field
		pH 6 (Raupach); Abrupt, Irregular change to -
B21	0.2 - 0.4 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure, Columnar; Rough-
		ped fabric; Moist; Weak consistence; Field pH 8 (Raupach); Clear change to -
B22	0.4 - 0.7 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 5YR56, 0-2% , 5-15mm, Distinct; Sandy light medium clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is
		Slightly calcareous; Field pH 9.5 (Raupach); Clear change to -
B3	0.7 - 0.9 m	Very pale brown (10YR7/3-Moist); Substrate influence, 10YR81, 20-50% , 15-30mm, Distinct; Light
		medium clay; Weak grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is
		Slightly calcareous; Field pH 9.5 (Raupach);

**Morphological Notes**

B3 Kaolinitic clay.

**Observation Notes**

**Site Notes**

Site is 50 metres downslope of rock outcrops - bordering on a "hardsetting grey clay".

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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	4.4B								
0.12 - 0.22	4.5B								
0.2 - 0.4	6.8B 8H	24B	1.25A	5.15	0.42	3.28		10.1D	
0.2 - 0.4	6.8B 8H	24B	1.25A	5.15	0.42	3.28		10.1D	
0.4 - 0.5	7.8B								

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.12 - 0.22											
0.2 - 0.4		0.29D							54I		6
40											
0.2 - 0.4		0.29D							54I		6
40											
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_BA	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