

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0458 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	18/09/95	<b>Elevation:</b>	295 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6278080 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	636490 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>	3 %	<b>Aspect:</b>	45 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Hypercalcic Mesonatric Brown Sodosol	<b>Principal Profile Form:</b>	Dy2.13
<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** No surface coarse fragments; No surface coarse fragments

**Profile Morphology**

Ap	0 - 0.05 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Field pH 6
		(Raupach); Abrupt, Smooth change to -
B21	0.05 - 0.25 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric;
		Dry; 2-10%, fine gravelly, 2-6mm, Calcrete, coarse fragments; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
B22k	0.25 - 0.4 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped
		fabric; Dry; 20-50%, medium gravelly, 6-20mm, subrounded, Calcrete, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Gradual change to -
B23k	0.4 - 0.7 m	Reddish yellow (7.5YR6/6-Moist); Mottles, 10YR6/4, 20-50% , 5-15mm, Faint; Light medium clay;
		Moderate grade of structure; Rough-ped fabric; Moist; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

Medic, rye grass and barley grass pasture.

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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 - 0.05	5.3B 6.4H	10B	2.2H	1.7	0.46	0.3	0.03J		4.66D	
0 - 0.05	5.3B 6.4H	10B	2.2H	1.7	0.46	0.3	0.03J		4.66D	
0 - 0.05	5.3B 6.4H	10B	2.2H	1.7	0.46	0.3	0.03J		4.66D	
0.05 - 0.25	7.7B 9H	13B	3.77E	7.74	1.42	2.73		16B	15.66D	17.06
0.05 - 0.25	7.7B 9H	13B	3.77E	7.74	1.42	2.73		16B	15.66D	17.06
0.05 - 0.25	7.7B 9H	13B	3.77E	7.74	1.42	2.73		16B	15.66D	17.06

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 - 0.05 9.5		1.52D						84.5I		6
0 - 0.05 9.5		1.52D						84.5I		6
0 - 0.05 9.5		1.52D						84.5I		6
0.05 - 0.25 46.5	<2C	0.23D						49I		4.5
0.05 - 0.25 46.5	<2C	0.23D						49I		4.5
0.05 - 0.25 46.5	<2C	0.23D						49I		4.5

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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



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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