Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0242** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	17/07/95	**Elevation:**	310 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6252120 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	609580 Datum: AGD84	**Drainage:**	Poorly drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Landform

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

Morph. Type:	Mid-slope	**Relief:**	5 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Supracalcic Subnatric Grey Sodosol **Principal Profile Form:** Dy2.13
ASC Confidence: **Great Soil Group:** 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

A1 0 - 0.1 m Very dark grey (2.5Y3/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; Field pH 7 (Raupach); Abrupt, Wavy change to -

B21 0.1 - 0.35 m Light brownish grey (2.5Y6/3-Moist); Mottles, 7.5YR56, 2-10% , 0-5mm, Faint; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -

B22k 0.35 - 0.5 m Light grey (2.5Y7/2-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Calcrete, coarse fragments; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Clear change to -

B23 0.5 - 0.6 m Pale yellow (2.5Y7/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Calcrete, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1	Some clay mixed in with this layer.
B21	Slight dispersion.
B22k	Duplication--"many" carbonate "nodules" removed from Segregation table

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6.2B 7H	13B	5.52A	2.62	0.82	0.16			9.12D	
0 - 0.1	6.2B 7H	13B	5.52A	2.62	0.82	0.16			9.12D	
0 - 0.1	6.2B 7H	13B	5.52A	2.62	0.82	0.16			9.12D	
0.1 - 0.3	8.2B 9H	17B	6.52E	8.13	0.32	1.32		17B	16.29D	7.76
0.1 - 0.3	8.2B 9H	17B	6.52E	8.13	0.32	1.32		17B	16.29D	7.76
0.1 - 0.3	8.2B 9H	17B	6.52E	8.13	0.32	1.32		17B	16.29D	7.76

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size CS	FS	Analysis Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.75D							81.5I		5
13.5											
0 - 0.1		1.75D							81.5I		5
13.5											
0 - 0.1		1.75D							81.5I		5
13.5											
0.1 - 0.3	<2C	0.11D							55.5I		3.5
41											
0.1 - 0.3	<2C	0.11D							55.5I		3.5
41											
0.1 - 0.3	<2C	0.11D							55.5I		3.5
41											

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
15C1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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

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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