Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0263** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	20/07/95	**Elevation:**	290 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6247430 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	631220 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:	Upper-slope	**Relief:**	5 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	90 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Hypercalcic Mesonatric Grey Sodosol **Principal Profile Form:** Dy2.43
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

20-50%, medium gravelly, 6-20mm, angular, Quartz; 0-2%, , subangular, Granite

Profile Morphology

A1 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Wet; Field pH 6 (Raupach); Abrupt, Smooth change to -

A2e 0.1 - 0.15 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Wet; Field pH 6.5 (Raupach); Abrupt, Wavy change to -

B21 0.15 - 0.4 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Coarse sandy light medium clay; Strong grade of structure, Columnar; Rough-ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Abrupt change to -

B22k 0.4 - 0.7 m Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; 20-50%, medium gravelly, 6-20mm, subrounded, Calcrete, coarse fragments; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

B21 Water moving down between peds.
B22k Very slight dispersion.---??Duplicate--"common" carbonate "nodules" removed from segregations table

Observation Notes

Site Notes

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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	5.4B 6.4H	7B	3.46H	1.13	0.29	0.3	0.03J		5.18D	
0 - 0.1	5.4B 6.4H	7B	3.46H	1.13	0.29	0.3	0.03J		5.18D	
0 - 0.1	5.4B 6.4H	7B	3.46H	1.13	0.29	0.3	0.03J		5.18D	
0.15 - 0.35	6.4B 7.6H	14B	2.37A	3.62	0.26	1.73			7.98D	
0.15 - 0.35	6.4B 7.6H	14B	2.37A	3.62	0.26	1.73			7.98D	
0.15 - 0.35	6.4B 7.6H	14B	2.37A	3.62	0.26	1.73			7.98D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 6		1.52D							87I		7
0 - 0.1 6		1.52D							87I		7
0 - 0.1 6		1.52D							87I		7
0.15 - 0.35 18.5		0.15D							75.5I		6
0.15 - 0.35 18.5		0.15D							75.5I		6
0.15 - 0.35 18.5		0.15D							75.5I		6

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
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
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)

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P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded