Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0335** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	02/08/95	**Elevation:**	290 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6250430 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	600490 Datum: AGD84	**Drainage:**	Imperfectly drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Mid-slope	**Relief:**	5 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Calcic Subnatric Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: N/A

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, subrounded, ; 0-2%, , subangular, Quartz

Profile Morphology

A1 0 - 0.12 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Sharp, Wavy change to -

B21 0.12 - 0.5 m Light brownish grey (2.5Y6/3-Moist); Mechanical, 10YR31, 10-20% , 15-30mm, Distinct; Sandy medium heavy clay; Strong grade of structure, Columnar; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Gradual change to -

B22k 0.5 - 0.7 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; 0-2%, fine gravelly, 2-6mm, Calcrete, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1 Slight dispersion.
B21 Sands coating outside of peds.

Observation Notes

Site Notes

"Hardsetting grey clay". ESP of 14.7, on border between a Subnatric and Mesonatric Sodosol

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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 - 0.12	4.9B 5.8H	13B	4.21H	1.29	0.79	0.25	0.17J		6.54D	

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0 - 0.12	4.9B 5.8H	13B	4.21H	1.29	0.79	0.25	0.17J	6.54D
0.12 - 0.32	6.8B 8H	14B	3.57A	7.28	0.66	1.62		13.13D
0.12 - 0.32	6.8B 8H	14B	3.57A	7.28	0.66	1.62		13.13D
0.12 - 0.32	6.8B 8H	14B	3.57A	7.28	0.66	1.62		13.13D

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 - 0.12 8		1.79D							86I		6
0 - 0.12 8		1.79D							86I		6
0 - 0.12 8		1.79D							86I		6
0.12 - 0.32 38.5	<2C	0.25D							58.5I		3
0.12 - 0.32 38.5	<2C	0.25D							58.5I		3
0.12 - 0.32 38.5	<2C	0.25D							58.5I		3

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
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