Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0097** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 31/05/95
Map Ref.:
Northing/Long.: 6279610 AMG zone: 50
Easting/Lat.: 622330 Datum: AGD84
Locality:
Elevation: 335 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

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

Landform

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

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 10 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition

Poached, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification:
Epibasic Pedal Calcic Calcarosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Uf6.12
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, Calcrete; 2-10%, , subangular, Granulite

Profile Morphology

A1p 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy light medium clay; Massive grade of structure; Moderately moist; Firm consistence; Field pH 7.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -

B21 0.1 - 0.25 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

B22k 0.25 - 0.3 m Strong brown (7.5YR5/6-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

A1p Field texture was LMC but has 23% clay when analysed (SCL texture)
B21 Very slight dispersion.

Observation Notes

Site Notes

Soil has a few cracks on surface - possibly a Vertosol - having clay content checked (when checked was 23% clay - i.e. SCL texture at 0-10 cm) . "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	Acidity			%
						Cmol (+)/kg				
0 - 0.1	6.6B 7.4H 7.2B	8B	7.24A	6.59	0.63	0.36			14.82D	
0 - 0.1	6.6B 7.4H 7.2B	8B	7.24A	6.59	0.63	0.36			14.82D	
0 - 0.1	6.6B 7.4H 7.2B	8B	7.24A	6.59	0.63	0.36			14.82D	
0.1 - 0.25	7.8B 8.6H	10B	9.2E	9.96	0.38	0.85		23B	20.39D	3.70
0.1 - 0.25	7.8B 8.6H	10B	9.2E	9.96	0.38	0.85		23B	20.39D	3.70
0.15 - 0.25	7.7B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 23									72.5I		4.5
0 - 0.1 23									72.5I		4.5
0 - 0.1 23									72.5I		4.5
0.1 - 0.25 38.5	2C								58I		3.5
0.1 - 0.25 38.5	2C								58I		3.5
0.15 - 0.25											

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

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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
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