Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0316** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 01/08/95
Map Ref.:
Northing/Long.: 6243510 AMG zone: 50
Easting/Lat.: 621780 Datum: AGD84
Locality:
Elevation: 290 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly 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: 3 %
Relief: 5 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Calcic Mesonatric Brown 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 10-20%, medium gravelly, 6-20mm, angular, Quartz; 0-2%, , subangular, Gneiss

Profile Morphology

A1 0 - 0.08 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; 10-20%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -

B21 0.08 - 0.4 m Strong brown (7.5YR5/8-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -

B22 0.4 - 0.5 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -

B23k 0.5 - 0.6 m Brown (10YR5/3-Moist); , 7.5YR56, 2-10% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; 10-20%, 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

B22 Slight dispersion.

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	5.8B 6.8H	15B	3.77A	2.67	0.29	0.69			7.42D	
0 - 0.08	5.8B 6.8H	15B	3.77A	2.67	0.29	0.69			7.42D	
0 - 0.08	5.8B 6.8H	15B	3.77A	2.67	0.29	0.69			7.42D	
0.08 - 0.28	7.1B 8.3H	30B	2.88E	7.48	0.25	3.48		16B	14.09D	21.75
0.08 - 0.28	7.1B 8.3H	30B	2.88E	7.48	0.25	3.48		16B	14.09D	21.75
0.08 - 0.28	7.1B 8.3H	30B	2.88E	7.48	0.25	3.48		16B	14.09D	21.75

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08 8.5		1.57D							84I		7.5
0 - 0.08 8.5		1.57D							84I		7.5
0 - 0.08 8.5		1.57D							84I		7.5
0.08 - 0.28 29.5	<2C	0.29D							64I		6.5
0.08 - 0.28 29.5	<2C	0.29D							64I		6.5
0.08 - 0.28 29.5	<2C	0.29D							64I		6.5

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