Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0145 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:15/06/95Elevation:300 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6269370 AMG zone: 50 Runoff: No Data Easting/Lat.: 592710 Datum: AGD84 Drainage: Poorly drained

<u>Geology</u>

ExposureType:Auger boringConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

**Landform** 

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

Morph. Type:Mid-slopeRelief:5 metresElem. Type:HillslopeSlope Category:No DataSlope:1 %Aspect:270 degrees

<u>Surface Soil Condition</u> Hardsetting, Hardsetting

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

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AHypocalcic Mesonatric Brown SodosolPrincipal Profile Form:Dy2.13ASC Confidence:Great Soil Group:N/A

No analytical data are available but confidence is fair.

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

Vegetation

<u>Surface Coarse Fragments</u> 2-10%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse

fragments

**Profile Morphology** 

A1 0 - 0.05 m Very dark greyish brown (10YR3/2-Moist); , 0-0%; Sand; Single grain grade of structure;

Moist; Field

pH 6 (Raupach); Abrupt, Wavy change to -

B21 0.05 - 0.35 m Yellowish brown (10YR5/8-Moist); , 0-0%; Medium clay; Moderate grade of structure;

Rough-ped

fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual

change to -

B22k 0.35 - 0.5 m Olive yellow (2.5Y6/6-Moist); , 0-0%; Medium clay; Moderate grade of structure; Rough-

ped fabric;

Moderately moist; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few (2 -

10 %),

Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9

(Raupach);

Morphological Notes

B22k Dry below 40cm.

**Observation Notes** 

Site Notes

"Hardsetting grey clay' - extra soil sample collected for pH cacl2.

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**Laboratory Test Results:** 

**Exchangeable Cations** Depth 1:5 EC Exchangeable CEC **ECEC** ESP Ca Mg Κ Na Acidity m dS/m Cmol (+)/kg %

0 - 0.1 5.2B 10B

	6.3H 8.2B 9.2H 5.2B	32B 10B 32B								
0 - 0.1	6.3H 8.2B 9.2H 5.2B 6.3H 8.2B 9.2H 5.2B 6.3H	10B 32B 10B 32B								
0 - 0.1	8.2B 9.2H 5.2B 6.3H 8.2B 9.2H 5.2B 6.3H	10B 32B 10B 32B								
0 - 0.1	8.2B 9.2H 5.2B 6.3H 8.2B 9.2H 5.2B 6.3H 8.2B	10B 32B 10B 32B								
0.05 - 0.25	9.2H 8.1B	28B	4.3E	5.36	0.5	2.32		13B	12.48D	17.85
0.05 - 0.25	9H 8.1B 9H	28B	4.3E	5.36	0.5	2.32		13B	12.48D	17.85
0.15 - 0.25	8.5B 9.4H	60B								
0.4 - 0.5	5.1B 6.3H	6B								
Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Parti GV C	cle Size An S FS	alysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 0 - 0.1 0 - 0.1 0 - 0.1										
0.05 - 0.25 52	<2C							4	61	2
0.05 - 0.25 52	<2C							4	61	2

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0.15 - 0.25 0.4 - 0.5

## Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15C1_CA pretreatment for	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,					
15C1_CEC 15C1_K soluble salts	soluble salts CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for					
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for					
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for					
15J_BASES 15L1_a Sum of Cations	Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay					
15N1_a 15N1_b 19B_NR 3_NR 4_NR 4B1 P10_gt2m P10_NR_C P10_NR_S P10_NR_S	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded					