Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0419 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality: Date Desc.: 31/08/95 Elevation:

Date Desc.: 31 Map Ref.:

Northing/Long.:

 31/08/95
 Elevation:
 290 metres

 Rainfall:
 No Data

 6247400 AMG zone: 50
 Runoff:
 No Data

 638000 Datum: AGD84
 Drainage:
 Poorly drained

Easting/Lat.: 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: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/AEutrophic Mesonatric Grey SodosolPrincipal Profile Form:Dy2.11ASC 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, subangular, Quartz; No surface coarse fragments

**Profile Morphology** 

A1 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0%; Coarse sandy loam; Massive grade of structure; Dry;

20-50%, fine

gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Abrupt,

Wavy change

to -

B21 0.08 - 0.3 m

structure; Rough-

Dark greyish brown (10YR4/2-Moist); , 0-0% ; Medium heavy clay; Moderate grade of

ped fabric; Dry; Field pH 7 (Raupach); Clear change to -

B22 0.3 - 0.5 m

structure; Rough-

Light brownish grey (2.5Y6/2-Moist); , 0-0%; Medium heavy clay; Moderate grade of

ped fabric; Moderately moist; Field pH 5.5 (Raupach); Clear change to -

B23 0.5 - 0.6 m

Light brownish grey (2.5Y6/2-Moist); Mottles, 7.5YR56, 10-20%, 5-15mm, Distinct;

Medium heavy clay;

Moderate grade of structure; Smooth-ped fabric; Moderately moist; Field pH 5.5

(Raupach);

**Morphological Notes** 

B22 Kaolinitic clay B23 Kaolinitic clay

**Observation Notes** 

Site Notes

"Hardsetting grey clay".

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**Laboratory Test Results:** 

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

0 - 0.08	5.9B 6.8H	18B	3.3A	2.46	0.3	0.85	6.91D
0 - 0.08	5.9B 6.8H	18B	3.3A	2.46	0.3	0.85	6.91D
0 - 0.08	5.9B 6.8H	18B	3.3A	2.46	0.3	0.85	6.91D
0.08 - 0.28	5.9B 6.9H	23B	2.1A	3.62	0.31	1.88	7.91D
0.08 - 0.28	5.9B 6.9H	23B	2.1A	3.62	0.31	1.88	7.91D
0.08 - 0.28	5.9B 6.9H	23B	2.1A	3.62	0.31	1.88	7.91D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density		ticle Siz CS FS	e Analysis S Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	0
0 - 0.08 9.5		1.13D						;	B1.5I	9
0 - 0.08 9.5		1.13D						;	31.5I	9
0 - 0.08 9.5		1.13D						;	B1.5I	9
0.08 - 0.28 42.5		0.53D							501	7.5
0.08 - 0.28 42.5		0.53D							501	7.5
0.08 - 0.28 42.5		0.53D							501	7.5

## **Laboratory Analyses Completed for this profile**

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	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+) - 1M ammonium chloride at pH 7.0, no pretreatment
ioi soluble	salts
15A1_CEC 15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	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_a 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 P10_gt2m	Organic carbon (%) - Uncorrected Walkley and Black method > 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