Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0373** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	10/08/95	**Elevation:**	280 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6238280 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	607080 Datum: AGD84	**Drainage:**	Well drained

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-slope	**Relief:**	10 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Ferric-Sodic Mesotrophic Yellow Chromosol **Principal Profile Form:** Dy3.82
ASC Confidence: **Great Soil Group:** N/A
Analytical data are incomplete but reasonable confidence.

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%, , subrounded, Ferricrete

Profile Morphology

A1 0 - 0.12 m Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Sharp, Smooth change to -

A2e 0.12 - 0.25 m Light grey (10YR7/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to -

A3c 0.25 - 0.35 m Pale brown (10YR6/3-Moist); , 0-0% ; Single grain grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -

B2 0.35 - 0.6 m Light yellowish brown (10YR6/4-Moist); Mottles, 5YR46, 10-20% , 5-15mm, Distinct; Sandy light clay; Massive grade of structure; Moderately moist; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Clear change to -

B3 0.6 - 0.65 m Reddish yellow (7.5YR6/6-Moist); Mottles, 10YR64, 2-10% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Weak consistence; Field pH 7 (Raupach);

Morphological Notes

B3 Kaolinitic clay

Observation Notes

Site Notes

Canola in paddock opposite this site.

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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 - 0.1	4.5B									
0.15 - 0.25	4.4B									
0.35 - 0.55	5.7B 6.6H	4B	1.25A	1.66	0.17	0.12			3.2D	
0.35 - 0.55	5.7B 6.6H	4B	1.25A	1.66	0.17	0.12			3.2D	
0.4 - 0.5	5.6B									

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 - 0.1											
0.15 - 0.25											
0.35 - 0.55		0.19D							65.5I		4
30.5											
0.35 - 0.55		0.19D							65.5I		4
30.5											
0.4 - 0.5											

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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
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
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