Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0219** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	12/07/95	**Elevation:**	335 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6254130 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	626040 Datum: AGD84	**Drainage:**	Moderately 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:**	5 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	270 degrees

Surface Soil Condition

Recently cultivated, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification:
Hyperbasic Pedal Hypercalcic Calcarosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gc2.12
Great Soil Group: N/A

Site Disturbance

Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

No surface coarse fragments; 2-10%, , subangular, Gabbro

Profile Morphology

Ap 0 - 0.05 m Dark brown (7.5YR3/3-Moist); , 0-0% ; Clay loam; Massive grade of structure; Moist; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Abrupt, Wavy change to -

B1 0.05 - 0.3 m Reddish brown (5YR4/4-Moist); , 0-0% ; Light clay; Weak grade of structure; Rough-ped fabric; Dry; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Clear change to -

B21k 0.3 - 0.6 m Dark reddish brown (5YR3/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure; Rough-ped fabric; Dry; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

B22 0.6 - 0.9 m Reddish brown (5YR4/3-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Dry; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site on an east-west trending dolerite dyke.

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Laboratory Test Results:

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

0 - 0.05	8B	21B	16.98E	8.31	0.9	1.37		22B	27.56D	6.23
	8.8H									
0 - 0.05	8B	21B	16.98E	8.31	0.9	1.37		22B	27.56D	6.23
	8.8H									
0 - 0.1	7.9B									
	7.9B									
0 - 0.1	7.9B									
	7.9B									
0.05 - 0.25	8.7B	174B	6.61E	14.51	0.6	11.31		30B	33.03D	37.70
	9.4H									
0.05 - 0.25	8.7B	174B	6.61E	14.51	0.6	11.31		30B	33.03D	37.70
	9.4H									
0.15 - 0.25	8.7B									
0.3 - 0.6	8.8B	266B	5.83E	16.62	0.58	20.43		38B	43.46D	53.76
	9.3H									
0.3 - 0.6	8.8B	266B	5.83E	16.62	0.58	20.43		38B	43.46D	53.76
	9.3H									
0.4 - 0.5	8.8B									

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 - 0.05	8C	1.35D							55I		9.5
35.5											
0 - 0.05	8C	1.35D							55I		9.5
35.5											
0 - 0.1											
0 - 0.1											
0.05 - 0.25	12C	0.47D							47I		9
44											
0.05 - 0.25	12C	0.47D							47I		9
44											
0.15 - 0.25											
0.3 - 0.6	9C	0.22D							36I		
0.3 - 0.6	9C	0.22D							36I		
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
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

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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
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
P10_NR_ZC	Silt + clay (%) - Not recorded