Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0212** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	12/07/95	**Elevation:**	310 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6256430 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	614045 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:	Level plain <9m <1%	**Pattern Type:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	5 metres
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition Recently cultivated

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

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Brown Kandosol

ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy2.12
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile Morphology

Acp 0 - 0.08 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt change to -

A3c 0.08 - 0.25 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Clear change to -

B2c 0.25 - 0.45 m Yellowish brown (10YR5/6-Moist); , 0-0% ; Light clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Gradual change to -

B31c 0.45 - 0.6 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Clay loam; Moderate grade of structure; Rough-ped fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7.5 (Raupach); Clear change to -

B22c 0.6 - 0.7 m Light yellowish brown (10YR6/4-Moist); Substrate influence, 10YR82, 2-10% , 5-15mm, Distinct; Clay loam; Weak grade of structure; Rough-ped fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7.5 (Raupach);

Morphological Notes

B2c	Kaolinitic clay
B31c	Kaolinitic clay
B22c	Kaolinitic clay

Observation Notes

Site Notes

Site in cereal crop.

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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	4.8B									
0.08 - 0.25	5.1B 6.1H	4B	2.9H	1.13	0.3	0.12	0.05J		4.45D	
0.08 - 0.25	5.1B 6.1H	4B	2.9H	1.13	0.3	0.12	0.05J		4.45D	
0.15 - 0.25	5.2B									
0.25 - 0.45	6.3B 7.1H	5B	2.91A	2.87	0.18	0.26			6.22D	
0.35 - 0.45	6.4B									

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											
0.08 - 0.25		0.82D							73.5I		5.5
21											
0.08 - 0.25		0.82D							73.5I		5.5
21											
0.15 - 0.25											
0.25 - 0.45		0.24D							48.5I		6.5
45											
0.35 - 0.45											

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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, 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

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P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded