Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0121** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	13/06/95	**Elevation:**	340 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6275840 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	618540 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:	Crest	**Relief:**	5 metres
Elem. Type:	Summit surface	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Ferric-Sodic Mesotrophic Brown Kandosol **Principal Profile Form:** Gn2.32
ASC 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 2-10%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile Morphology

A1 0 - 0.12 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Abrupt, Wavy change to -

A2e 0.12 - 0.2 m Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt change to -

A31ec 0.2 - 0.35 m Pale brown (10YR6/3-Moist); , 0-0% ; Single grain grade of structure; Moist; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt change to -

A32c 0.35 - 0.5 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Massive grade of structure; Moist; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Gradual change to -

B2c 0.5 - 0.7 m Yellowish brown (10YR5/6-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moist; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Gradual change to -

B3c 0.7 - 0.9 m Light grey (2.5Y7/2-Moist); Mottles, 10YR56, 20-50% , 5-15mm, Distinct; Clay loam,

sandy; Weak grade of structure; Rough-ped fabric; Moist; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach);

Morphological Notes

A1 Fine to medium sand.

Observation Notes

Site Notes

Site in lupin stubble.

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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	4.6B 5.4H	6B								
0.2 - 0.3	4.9B 5.8H	4B								
0.4 - 0.5	5.7B 6.5H	4B								
0.5 - 0.7	5.8B 6.5H	5B	0.81A	1.29	0.16	0.28			2.54D	
0.5 - 0.7	5.8B 6.5H	5B	0.81A	1.29	0.16	0.28			2.54D	

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											
0.2 - 0.3											
0.4 - 0.5											
0.5 - 0.7 24.5									72.5I		3
0.5 - 0.7 24.5									72.5I		3

Laboratory Analyses Completed for this profile

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
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