Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0497** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	26/03/96	**Elevation:**	340 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6332680 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	620030 Datum: AGD84	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**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:**	30 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	90 degrees

Surface Soil Condition

Loose

Erosion

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

Soil Classification

Australian Soil Classification:
Basic Petroferric Sequi-Nodular Tenosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Uc2.12
Great Soil Group: N/A

Site Disturbance

Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments

No surface coarse fragments; No surface coarse fragments

Profile Morphology

Ap 0 - 0.08 m Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Water repellent; Field pH 5.5 (Raupach); Abrupt, Smooth change to -

A2e 0.08 - 0.4 m Light grey (10YR7/2-Moist); , 0-0% ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Clear, Wavy change to -

B1ce 0.4 - 0.6 m Light grey (10YR7/2-Moist); , 0-0% ; Massive grade of structure; Dry; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Abrupt, Irregular change to -

B2cm 0.6 - 0.9 m ; Sand; Massive grade of structure;

Morphological Notes

Ap	Few GC, U, 2
B1ce	Coarse sandy gravel

Observation Notes

Site Notes

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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 - 0.08	4.7B 5.7H	10B	1.55H	0.38	0.08	0.23	0.16J		2.24D	
0 - 0.08	4.7B	10B	1.55H	0.38	0.08	0.23	0.16J		2.24D	

	5.7H										
0 - 0.1	4.4B	11B									
	5.2H										
	4.5B										
	5.3H										
0 - 0.1	4.4B	11B									
	5.2H										
	4.5B										
	5.3H										
0 - 0.1	4.4B	11B									
	5.2H										
	4.5B										
	5.3H										
0.08 - 0.4	5B	3B	0.52H	0.23	0.02	0.06	0.02J			0.83D	
	6.3H										
0.08 - 0.4	5B	3B	0.52H	0.23	0.02	0.06	0.02J			0.83D	
	6.3H										
0.15 - 0.25	5.2B	2B									
	6.1H										
0.4 - 0.6	5.6B	4B	0.24A	0.56	0.02	0.2				1.02D	
	6.9H										
0.4 - 0.6	5.6B	4B	0.24A	0.56	0.02	0.2				1.02D	
	6.9H										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08		0.94D		56B							2.4
3.2											
0 - 0.08		0.94D		56B							2.4
3.2											
0 - 0.1		1.04D		61B	0.056E						
0 - 0.1		1.04D		61B	0.056E						
0 - 0.1		1.04D		61B	0.056E						
0.08 - 0.4		0.17D		20B							2.2
3.6											
0.08 - 0.4		0.17D		20B							2.2
3.6											
0.15 - 0.25											
0.4 - 0.6		0.14D		21B							2.6
6											
0.4 - 0.6		0.14D		21B							2.6
6											

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
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - 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

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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_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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)