

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0490 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	28/02/96	Elevation:	320 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6293250 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	620650 Datum: AGD84	Drainage:	Moderately 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:	Crest	Relief:	10 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Mottled-Subnatric Brown Sodosol	Principal Profile Form:	Dy5.82
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 10-20%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile Morphology

Ap 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Weak grade of structure, 5-10 mm, Granular;
 Sandy (grains prominent) fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -

A2ce 0.1 - 0.3 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Sandy
 (grains prominent) fabric; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Wavy change to -

B21 0.3 - 0.65 m Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 20-50% , 30-mm, Distinct; Light medium clay;
 Weak grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 - 6 mm), Concretions; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Gradual, Irregular change to -

B22 0.65 - 0.9 m Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Distinct; Light medium clay;
 Weak grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 6.5 (Raupach);

Morphological Notes

A2ce Boundary deepends to 40cm elsewhere in pit.

Observation Notes

Site Notes

Soil pit in Kuringup catchment.

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Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.6B 5.4H 4.8B 5.6H 4.6B	8B 10B 7B	2.49H	0.64	0.13	0.08	0.17J		3.34D	
0 - 0.1	5.4H 4.6B 5.4H 4.8B 5.6H 4.6B	8B 10B 7B	2.49H	0.64	0.13	0.08	0.17J		3.34D	
0 - 0.1	5.4H 4.6B 5.4H 4.8B 5.6H 4.6B	8B 10B 7B	2.49H	0.64	0.13	0.08	0.17J		3.34D	
0 - 0.1	5.4H 4.6B 5.4H 4.8B 5.6H 4.6B	8B 10B 7B	2.49H	0.64	0.13	0.08	0.17J		3.34D	
0 - 0.1	5.4H 4.6B 5.4H 4.8B 5.6H 4.6B	8B 10B 7B	2.49H	0.64	0.13	0.08	0.17J		3.34D	
0.1 - 0.3	5.2B 6.2H	2B	0.91H	0.36	0.04	0.08	0.02J		1.39D	
0.1 - 0.3	5.2B 6.2H	2B	0.91H	0.36	0.04	0.08	0.02J		1.39D	
0.15 - 0.25	4.9B 6H	2B								
0.3 - 0.5	6.1B 7H	8B	1.78A	3.32	0.08	0.76			5.94D	
0.3 - 0.5	6.1B 7H	8B	1.78A	3.32	0.08	0.76			5.94D	
0.4 - 0.5	6.1B 7.1H	8B								
0.5 - 0.65	6.1B 7.1H	8B	0.84A	2.22	0.05	0.66			3.77D	
0.5 - 0.65	6.1B 7.1H	8B	0.84A	2.22	0.05	0.66			3.77D	
0.65 - 0.9	6B 7H	12B	0.7A	2.72	0.06	1.18			4.66D	
0.65 - 0.9	6B 7H	12B	0.7A	2.72	0.06	1.18			4.66D	

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Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1 10.7		1.43D		140B	0.108E			4.2
0 - 0.1 10.7		1.38D 1.43D		140B 140B	0.108E			4.2
0 - 0.1 10.7		1.38D 1.43D		140B 140B	0.108E			4.2
0 - 0.1 10.7		1.38D 1.43D		140B 140B	0.108E			4.2
0 - 0.1 10.7		1.38D 1.43D		140B 140B	0.108E			4.2
0.1 - 0.3 10.5		0.22D		31B				3.1
0.1 - 0.3 10.5		0.22D		31B				3.1
0.15 - 0.25 0.3 - 0.5 64.6		0.16D		34B				3.7
0.3 - 0.5 64.6		0.16D		34B				3.7
0.4 - 0.5 0.5 - 0.65 40.9		0.09D		27B				3
0.5 - 0.65 40.9		0.09D		27B				3
0.65 - 0.9 47		0.08D		29B				3.1
0.65 - 0.9 47		0.08D		29B				3.1

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
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
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
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)

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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)