

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0181 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	03/07/95	Elevation:	350 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6262530 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	626165 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:	0 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Dystrophic Mottled-Mesonatric Grey Sodosol	Principal Profile Form:	Dy5.43
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 No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Massive grade of structure; Moderately moist; Field pH 5.5
		(Raupach); Sharp, Smooth change to -
A2e	0.1 - 0.2 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Moderately moist; Field pH 5.5 (Raupach);
B21t	0.2 - 0.4 m	Pale brown (10YR6/3-Moist); Mottles, 5YR56, 20-50% , 15-30mm, Distinct; Sandy medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Gradual, Wavy change to -
B22t	0.4 - 0.7 m	Red (2.5YR4/6-Moist); Mottles, 10YR74, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Field pH 7 (Raupach); Gradual change to -
B3	0.7 - 0.8 m	Pink (7.5YR7/4-Moist); Mottles, 10YR81, 10-20% , 15-30mm, Distinct; , 2.5YR46, 2-10% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 8.5 (Raupach);

Morphological Notes

B22t	Kaolinitic clay
B3	Kaolinitic

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%
0 - 0.1	4.2B						
0.1 - 0.2	4.1B						
0.2 - 0.4	4.5B	6B	0.63H	0.83	0.03	0.38	0.35J
	5.9H						1.87D
0.2 - 0.4	4.5B	6B	0.63H	0.83	0.03	0.38	0.35J
	5.9H						1.87D
0.4 - 0.5	5.2B						

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.1 - 0.2											
0.2 - 0.4		0.34D							55.5I		3
		41.5									
0.2 - 0.4		0.34D							55.5I		3
		41.5									
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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
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
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded