

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0222 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	13/07/95	Elevation:	325 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6252145 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	625105 Datum: AGD84	Drainage:	Poorly drained

Geology

Exposure Type:	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:	Open depression (vale)	Relief:	5 metres
Elem. Type:	Drainage depression	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Calcic Mesonatric Grey Sodosol	Principal Profile Form:	Dy2.13
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clay loam; Massive grade of structure; Moist; Field
		pH 6 (Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.3 m	Greyish brown (10YR5/2-Moist); Mechanical, 10YR41, 10-20% , 15-30mm, Distinct; Sandy medium clay;
		Strong grade of structure; Rough-ped fabric; Moist; Field pH 8.5 (Raupach);
B22	0.3 - 0.6 m	Light brownish grey (2.5Y6/2-Moist); Mechanical, 10YR51, 2-10% , 15-30mm, Faint; Sandy medium clay;
		Strong grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field
		pH 9 (Raupach); Gradual change to -
B23	0.6 - 0.7 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure;
		Rough-ped fabric; Dry; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil
		matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -
B24	0.7 - 0.8 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Distinct; Sandy light medium
		clay; Moderate grade of structure; Dry; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft
		segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Abrupt change to -
B25k	0.8 - 0.9 m	Light brownish grey (2.5Y6/2-Moist); , 10YR81, 2-10% , 5-15mm, Distinct; Sandy medium clay; Moderate
		grade of structure; Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft
		segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

B25k Carbonate mottles

Observation Notes

Site Notes

drainage line which has not been cropped. Area gets boggy - wheel ruts. Field textures used to classify site as Layer 2 (upper B2) has mixture of Layer 1 & 2.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg				%
0 - 0.1	5.6B 6.4H 5.5B	32B	11.22H	6.24	0.76	1.1	0.02J		19.32D	
0 - 0.1	5.6B 6.4H 5.5B	32B	11.22H	6.24	0.76	1.1	0.02J		19.32D	
0 - 0.1	5.6B 6.4H 5.5B	32B	11.22H	6.24	0.76	1.1	0.02J		19.32D	
0 - 0.1	5.6B 6.4H 5.5B	32B	11.22H	6.24	0.76	1.1	0.02J		19.32D	
0.1 - 0.3	7.2B 8.5H	18B	4.26E	5.23	0.18	2.89		15B	12.56D	19.27
0.1 - 0.3	7.2B 8.5H	18B	4.26E	5.23	0.18	2.89		15B	12.56D	19.27
0.1 - 0.3	7.2B 8.5H	18B	4.26E	5.23	0.18	2.89		15B	12.56D	19.27
0.15 - 0.25	7.1B									
0.4 - 0.5	7.6B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3				%	
0 - 0.1		6.2D								77.5I		6.5
16												
0 - 0.1		6.2D								77.5I		6.5
16												
0 - 0.1		6.2D								77.5I		6.5
16												
0 - 0.1		6.2D								77.5I		6.5
16												
0.1 - 0.3	<2C	0.41D								69.5I		5.5
25												
0.1 - 0.3	<2C	0.41D								69.5I		5.5
25												
0.1 - 0.3	<2C	0.41D								69.5I		5.5
25												
0.15 - 0.25												
0.4 - 0.5												

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for soluble salts
15C1_CEC CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts

15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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

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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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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