

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0340 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	03/08/95	Elevation:	290 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6249840 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	593040 Datum: AGD84	Drainage:	Poorly 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:	2 %	Aspect:	45 degrees

Surface Soil Condition Recently cultivated, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Mottled-Mesonatric Yellow Sodosol	Principal Profile Form:	Dy3.12
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Field pH 5.5 (Raupach);
		Sharp, Wavy change to -
B21	0.08 - 0.25 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Medium heavy
		clay; Strong grade of structure; Smooth-ped fabric; Dry; Very firm consistence; Field pH 6.5 (Raupach);
		Clear change to -
B22	0.25 - 0.4 m	Pale brown (10YR6/3-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of
		structure; Smooth-ped fabric; Dry; Very firm consistence; Field pH 6.5 (Raupach);
B23	0.4 - 0.6 m	Light grey (2.5Y7/2-Moist); Mottles, 7.5YR56, 2-10% , 5-15mm, Distinct; , 2.5YR56, 2-10% , 5-15mm,
		Distinct; Sandy medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Very firm consistence;
		Field pH 7 (Raupach); Clear change to -
B24	0.6 - 0.8 m	Pale yellow (2.5Y7/4-Moist); Mottles, 7.5YR56, 0-2% , 5-15mm, Distinct; Sandy medium clay; Moderate
		grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach);
		Clear change
		to -
B3	0.8 - 0.9 m	Pale yellow (2.5Y7/4-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped
		fabric; Dry; Very firm consistence; Field pH 8 (Raupach);

Morphological Notes

B21 Kaolinitic clay.

Observation Notes

Site Notes

Site in a lupin crop - lupins sparse in this area of crop - "hardsetting grey clay".

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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				Cmol (+)/kg				%
0 - 0.08	5B 6.3H	8B	1.64H	0.45	0.08	0.4	0.1J		2.57D	
0 - 0.08	5B 6.3H	8B	1.64H	0.45	0.08	0.4	0.1J		2.57D	
0 - 0.08	5B 6.3H	8B	1.64H	0.45	0.08	0.4	0.1J		2.57D	
0.08 - 0.28	5.2B 6.3H	17B	1.9H	3.58	<0.02	1.71	0.05J		7.2D	
0.08 - 0.28	5.2B 6.3H	17B	1.9H	3.58	<0.02	1.71	0.05J		7.2D	
0.08 - 0.28	5.2B 6.3H	17B	1.9H	3.58	<0.02	1.71	0.05J		7.2D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.08 5		0.91D						92I 3
0 - 0.08 5		0.91D						92I 3
0 - 0.08 5		0.91D						92I 3
0.08 - 0.28 66.5		0.57D						29.5I 4
0.08 - 0.28 66.5		0.57D						29.5I 4
0.08 - 0.28 66.5		0.57D						29.5I 4

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
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