

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0444 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 13/09/95	Elevation: 350 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6268440 AMG zone: 50	Runoff: No Data
Easting/Lat.: 631770 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: Open depression (vale)	Relief: 20 metres
Elem. Type: Drainage depression	Slope Category: No Data
Slope: 1 %	Aspect: 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hypercalcic Subnatric Red Sodosol	Principal Profile Form: Dr2.23
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, subangular, Quartz; No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Clay loam, coarse sandy; Massive grade of structure; Moist;
		Field pH 7.5 (Raupach); Abrupt, Smooth change to -
A2	0.04 - 0.05 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Moist; Field pH
		6 (Raupach); Abrupt, Wavy change to -
B21	0.05 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); Mechanical, 7.5YR32, 20-50% , 15-30mm, Distinct; Coarse sandy
		medium heavy clay; Strong grade of structure; Rough-ped fabric; Moist; Many cutans, > 50% of ped
		faces or walls coated; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
B22k	0.4 - 0.6 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped
		fabric; Moderately moist; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations;
		Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Acidity				%
					Cmol (+)/kg				

0 - 0.04	6.1B 6.9H	23B	6A	3.6	0.63	0.5			10.73D
0 - 0.04	6.1B 6.9H	23B	6A	3.6	0.63	0.5			10.73D
0 - 0.04	6.1B 6.9H	23B	6A	3.6	0.63	0.5			10.73D
0.05 - 0.25	6.4B 8.1H	8B	7.06E	5.99	0.21	1.86		18B	15.12D 10.33
0.05 - 0.25	6.4B 8.1H	8B	7.06E	5.99	0.21	1.86		18B	15.12D 10.33
0.05 - 0.25	6.4B 8.1H	8B	7.06E	5.99	0.21	1.86		18B	15.12D 10.33

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.04 12.5		2.31D								78.5I		9
0 - 0.04 12.5		2.31D								78.5I		9
0 - 0.04 12.5		2.31D								78.5I		9
0.05 - 0.25 24	<2C	0.84D								64I		12
0.05 - 0.25 24	<2C	0.84D								64I		12
0.05 - 0.25 24	<2C	0.84D								64I		12

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
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_MG soluble salts	soluble salts
15C1_NA soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15L1_a Sum of Cations	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15N1_a	Sum of Bases
15N1_b	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
19B_NR	and measured clay
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
	Calcium Carbonate (CaCO ₃) - Not recorded
	Electrical conductivity or soluble salts - Not recorded

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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