

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0338 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 02/08/95 **Elevation:** 290 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6245540 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 598410 Datum: AGD84 **Drainage:** Imperfectly 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:** 10 metres
Elem. Type: Hillslope **Slope Category:** No Data
Slope: 3 % **Aspect:** 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Hypocalcic Mesonatric Brown Sodosol **Principal Profile Form:** Ug6.6
ASC Confidence: **Great Soil Group:** N/A
 Analytical data are incomplete but reasonable confidence.

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments No surface coarse fragments; 10-20%, , subangular, Granite

Profile Morphology

A1 0 - 0.1 m Dark reddish brown (5YR3/2-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, 5-10 mm,
 Subangular blocky; Rough-ped fabric; Moist; Field pH 6 (Raupach); Abrupt change to -
 B21 0.1 - 0.4 m Brown (7.5YR4/3-Moist); , 0-0% ; Heavy clay; Moderate grade of structure; Rough-ped fabric; Moist;
 Common cutans, 10-50% of ped faces or walls coated; Soil matrix is Slightly calcareous; Field pH 8.5
 (Raupach); Clear change to -
 B22 0.4 - 0.6 m Brown (10YR4/3-Moist); Substrate influence, 10YR81, 2-10% , 5-15mm, Prominent;
 Medium heavy clay;
 Moderate grade of structure; Rough-ped fabric; Moderately moist; Few cutans, <10% of ped faces or
 walls coated; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

B21 Slickensides common.
 B22 Few slickensides.

Observation Notes

Site Notes

Soil is possibly a cracking clay. Lab analysis of layer 1 is 17.5% clay , this does not match the field texture of LMC.

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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 - 0.1	5.5B 6.4H	20B	7.15H	4.11	0.6	1.19	<0.02J		13.05D	
0 - 0.1	5.5B	20B	7.15H	4.11	0.6	1.19	<0.02J		13.05D	

0 - 0.1	6.4H 5.5B	20B	7.15H	4.11	0.6	1.19	<0.02J	13.05D		
0.1 - 0.3	6.4H 7.5B	36B	13.55E	10.3	0.67	6.75		35B	31.27D	19.29
0.1 - 0.3	8.5H 7.5B	36B	13.55E	10.3	0.67	6.75		35B	31.27D	19.29
0.1 - 0.3	8.5H 7.5B	36B	13.55E	10.3	0.67	6.75		35B	31.27D	19.29

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	% Clay	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.75D						71I		11.5	
17.5											
0 - 0.1		1.75D						71I		11.5	
17.5											
0 - 0.1		1.75D						71I		11.5	
17.5											
0.1 - 0.3	<2C	0.55D						23.5I		10	
66.5											
0.1 - 0.3	<2C	0.55D						23.5I		10	
66.5											
0.1 - 0.3	<2C	0.55D						23.5I		10	
66.5											

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 (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
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

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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